

## **PRODUCTION PRODUCTS**

### **SECTION “ A “ PRODUCTION DEMULSIFIERS**

- BREAK 6071 • BREAK 6100 • BREAK 6122 • BREAK 6166
- BREAK 6261 • BREAK 6709 • BREAK 6710 • BREAK 6715
- BREAK 6724 • BREAK 6726 • BREAK 6728 • BREAK 6730
- BREAK 6733 • BREAK 6734 • BREAK 6736 • BREAK 6741
- BREAK 6742 • BREAK 6744 • BREAK 6750 • BREAK 6754
- BREAK 6756 • BREAK 6767 • BREAK 6800 • BREAK 6766

### **SECTION “ B “ PRODUCTION SCALE INHIBITORS**

- SCALE 3512 • SCALE 3513 • SCALE 7075 • SCALE 7100
- SCALE 7261 • SCALE 7511 • SCALE 7577 • SCALE 7641
- SCALE 7766 • SCALE 7842 • SCALE 7844 • SCALE 7847
- SCALE 7849 • SCALE 7850

### **SECTION “ C “ PRODUCTION BACTERICIDES**

- CIDE 1965 • CIDE 4576 • CIDE 5103 • CIDE 5119
- CIDE 5166 • CIDE 5225 • CIDE 5611 • CIDE 5691
- CIDE 5822 • CIDE 5900 • CIDE 7846

### **SECTION “ D “ PRODUCTION CORROSION INHIBITORS**

- COR 370 • COR 376 • COR 425
- COR 430 • COR 484 • MULTI 485 • MULTI 486
- MULTI 487 • COR 491 • COR 561 • COR 601
- COR 678 • COR 712 D • COR 714 • COR 850
- COR 855 • MULTI 857 • COR 859 • COR 860
- COR 863 • COR 947 • COR 947D • COR 966
- MULTI 7100 • MULTI 9140

### **SECTION “ E “ PRODUCTION H<sub>2</sub>S SCAVS.**

- H SCAV 200 • SCAV 271 • SCAV 272 • SCAV 273
- SCAV 279 • SCAV 285

### **SECTION “ F “ PRODUCTION MISCELLANEOUS**

- DFOAM 4538 • PPD 100 • PPD 115



## BREAK 6071

### PRODUCTION DEMULSIFIER FOR OIL IN WATER EMULSIONS

#### Product description:

BREAK 6071 is a blend of medium weight polyelectrolytes for use in the clarification of oilfield wastewaters. Oilfield applications include water floods and seawater injection systems.

BREAK 6071 can also be used with inorganic salts as a coagulant aid in solids removal by filtration.

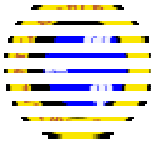
#### Typical physical properties:

Appearance :	Colourless liquid.
Specific Gravity @ 30° C:	1.00 to 1.06 gm/cc
Pour Point:	0° C.
pH:	4.5 to 5.5

#### PRODUCT APPLICATION DETAILS:

Optimum dose rates will depend upon the application but will normally be found to be in the range of 5 to 50 PPM.

BREAK 6071 should be injected into the water stream either neat or diluted at a point of good turbulence to ensure rapid dispersion and mixing. BREAK 6071 should be evaluated using a relevant test such as a gang stirrer or a lab wemco before field use.



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BREAK 6071 – Continue

### **PRODUCT HANDLING DETAILS:**

In case of skin contact, remove all contaminated clothing and wash the affected area with soap and water. Launder all contaminated clothing before re-use.

In the case of eye contact, hold the eyelids open and flush the eyes with water for 15 minutes. Seek immediate medical advice.

In the case of ingestion, drink large quantities of milk or water and seek immediate medical aid. Do not induce vomiting.

### **PRODUCT PACKAGING DETAILS:**

BREAK 6071 is supplied in 55 US gallon lined drums, or plastic drums.



## **BREAK 6100**

### **PRODUCTION DEMULSIFIER FOR OILFIELD CRUDE EMULSIONS**

#### **Product description:**

BREAK 6100 is a blend of alkoxyated resins, epoxy compounds and high molecular weight polyols, in an aromatic solvent. BREAK 6100 has been formulated to give good emulsion breaking and water separation in a broad range of crudes. Demulsifiers can however be very selective and should always be bottle tested before being used to treat specific crudes.

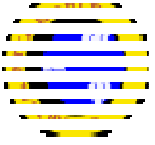
#### **TYPICAL PHYSICAL PROPERTIES:**

Appearance:	Amber Liquid.
Specific Gravity @ 30° C:	0.95 to 0.995 gm/cc
Viscosity @ 30° C:	Less than 100 Cps.
Pour Point:	Below 0° C.
Flash Point:	Greater than 150° F
Solubility:	Soluble in crude oil and aromatic solvents.
pH:	6.5 to 7.5

#### **PRODUCT APPLICATION DETAILS:**

BREAK 6100 should be injected into the crude via a metering pump at a point of high turbulence. For some applications, where there are very tight emulsions present, it may be necessary to inject BREAK 6100 at the well head, but in most cases it can be added at the manifold entering the treating station.

Each individual application must be assessed using bottle tests and field trials to obtain the optimum dose levels and injection points before any full-scale use is attempted. The normal dose rate will usually be in the range of 5 to 50 PPM based on the total fluids produced.



BREAK 6100 – Continue

**PRODUCT HANDLING DETAILS:**

BREAK 6100 is formulated in a heavy aromatic solvent and therefore prolonged or repeated skin contact should be avoided. Any spillages should be promptly absorbed with sand or earth, which can then be removed to an approved landfill or incinerated.

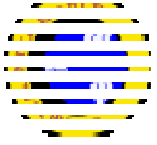
In case of skin contact, remove all contaminated clothing and wash the affected area with soap and water. Launder all contaminated clothing before re-use.

In the case of eye contact, hold the eyelids open and flush the eyes with water for 15 minutes. Seek immediate medical advice.

In the case of ingestion, drink large quantities of milk or water and seek immediate medical aid. Do not induce vomiting.

**PRODUCT PACKAGING DETAILS:**

BREAK 6100 is supplied in 55 US gallon steel drums.



## BREAK 6122

### PRODUCTION DEMULSIFIER FOR OILFIELD CRUDE EMULSIONS

#### Product description:

BREAK 6122 is a blend of alkoxyated resins and high molecular weight polyols in an aromatic solvent. BREAK 6122 has been formulated to give good emulsion breaking rapid water separation in a range of medium to high API gravity crudes. Demulsifiers can however be very selective and should always be bottle tested before being used to treat specific crudes.

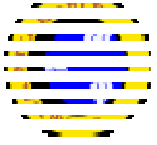
#### TYPICAL PHYSICAL PROPERTIES:

Appearance:	Amber Liquid.
Specific Gravity @ 30° C:	0.95 to 0.99 Gr/Cm <sup>3</sup>
Viscosity @ 30° C:	Less than 50 Cps.
Pour Point:	Below 0° C.
Flash Point:	Greater than 150° F.
Solubility:	Soluble in aromatic hydrocarbons and crude oil. Insoluble in water.

#### PRODUCT APPLICATION DETAILS:

BREAK 6122 should be injected into the crude via a metering pump at a point of high turbulence. For some applications, where there are very tight emulsions present, it may be necessary to inject BREAK 6122 at the well head but in most cases it can be added at the manifold entering the treating station.

Each individual application must be assessed using bottle tests and field trials to obtain the optimum dose levels and injection points before any full-scale use is attempted. The normal dose rate will usually be in the range of 5 to 50 PPM based on the total fluids produced.



BREAK 6122 - Continue

**PRODUCT HANDLING DETAILS:**

BREAK 6122 is formulated in a heavy aromatic solvent and therefore prolonged or repeated skin contact should be avoided. Any spillages should be promptly absorbed with sand or earth, which can then be removed to an approved landfill or incinerated.

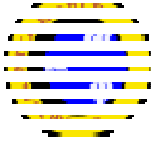
In case of skin contact, remove all contaminated clothing and wash the affected area with soap and water. Launder all contaminated clothing before re-use.

In the case of eye contact, hold the eyelids open and flush the eyes with water for 15 minutes. Seek immediate medical advice.

In the case of ingestion, drink large quantities of milk or water and seek immediate medical aid. Do not induce vomiting.

**PRODUCT PACKAGING DETAILS:**

BREAK 6122 is supplied in 55 US gallon steel drums.



## BREAK 6166

### PRODUCTION DEMULSIFIER FOR OILFIELD CRUDE EMULSIONS

#### Product description:

BREAK 6166 is a blend of alkoxyated resins and high molecular weight polyols in an aromatic solvent. BREAK 6166 has been formulated to give good demulsification and water separation in a range of medium to high API gravity crudes. Demulsifiers can however be very selective and should always be bottle tested before being applied to specific crude.

#### TYPICAL PHYSICAL PROPERTIES:

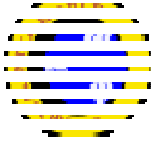
Appearance:	Amber Liquid.
Specific Gravity @ 30° C:	0.93 to 0.95
Viscosity @ 30° C:	Less than 50 Cps.
Pour Point:	Less than 0° C.
Flash Point:	Greater than 150° F.
Solubility:	Soluble in brines and fresh waters.
pH:	6.5 to 7.5

#### PRODUCT APPLICATION DETAILS:

BREAK 6166 should be injected into the crude via a metering pump at a point of high turbulence. For some applications, where there are very tight emulsions present, it may be necessary to inject BREAK 6166 at the well head but in most cases it can be added at the manifold entering the treating station.

Each individual application must be assessed using bottle tests and field trials to obtain the optimum dose levels and injection points before any full-scale use is attempted. The normal dose rate will usually be in the range of 5 to 50 PPM based on the total fluids produced.





BREAK 6166 - Continue

**PRODUCT HANDLING DETAILS:**

BREAK 6166 is formulated in solvent and therefore prolonged or repeated skin contact should be avoided. Any spillages should be promptly absorbed with sand or earth which can then be removed to a approved land fill or incinerated.

In case of skin contact, remove all contaminated clothing and wash the affected area with soap and water. Launder all contaminated clothing before re-use.

In the case of eye contact, hold the eyelids open and flush the eyes with water for 15 minutes. Seek immediate medical advice.

In case of ingestion, drink large quantities of milk or water and seek immediate medical aid. Do not induce vomiting.

**PRODUCT PACKAGING DETAILS:**

BREAK 6166 is normally supplied in 55 US gallon steel drums.



## BREAK 6261

### PRODUCTION DEMULSIFIER FOR OILFIELD CRUDE EMULSIONS

#### Product description:

BREAK 6261 is a blend of alkoxyated resins and high molecular weight polyols in an aromatic solvent. BREAK 6261 has been formulated to give good emulsion breaking rapid water separation in a range of medium to high API gravity crudes. Demulsifiers can however be very selective and should always be bottle tested before being used to treat specific crudes.

#### TYPICAL PHYSICAL PROPERTIES:

Appearance:	Amber Liquid.
Specific Gravity @ 30° C:	0.95 to 0.99 Gr/Cm <sup>3</sup>
Viscosity @ 30° C:	Less than 500 Cps.
Pour Point:	Below 0° C.
Flash Point:	Greater than 150° F.
Odour:	Characteristic

#### PRODUCT APPLICATION DETAILS:

BREAK 6261 should be injected into the crude via a metering pump at a point of high turbulence. For some applications, where there are very tight emulsions present, it may be necessary to inject BREAK 6261 at the well head but in most cases it can be added at the manifold entering the treating station.

Each individual application must be assessed using bottle tests and field trials to obtain the optimum dose levels and injection points before any full-scale use is attempted. The normal dose rate will usually be in the range of 5 to 50 PPM based on the total fluids produced.



BREAK 6261 - Continue

**PRODUCT HANDLING DETAILS:**

BREAK 6261 is formulated in a heavy aromatic solvent and therefore prolonged or repeated skin contact should be avoided. Any spillages should be promptly absorbed with sand or earth, which can then be removed to an approved landfill or incinerated.

In case of skin contact, remove all contaminated clothing and wash the affected area with soap and water. Launder all contaminated clothing before re-use.

In the case of eye contact, hold the eyelids open and flush the eyes with water for 15 minutes. Seek immediate medical advice.

In the case of ingestion, drink large quantities of milk or water and seek immediate medical aid. Do not induce vomiting.

**PRODUCT PACKAGING DETAILS:**

BREAK 6261 is supplied in 55 US gallon steel drums.



## BREAK 6709

### PRODUCTION DEMULSIFIER FOR OILFIELD CRUDE EMULSIONS

#### Product description:

BREAK 6709 is a blend of alkoxyated resins and high molecular weight polyols in an aromatic solvent. BREAK 6709 has been formulated to give good emulsion breaking rapid water separation in a range of medium to high API gravity crudes. Demulsifiers can however be very selective and should always be bottle tested before being used to treat specific crudes.

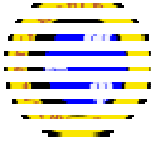
#### TYPICAL PHYSICAL PROPERTIES:

Appearance:	Amber Liquid.
Specific Gravity @ 30° C:	0.95 to 0.99 Gr/Cm <sup>3</sup>
Viscosity @ 30° C:	Less than 500 Cps.
Pour Point:	Below 0° C.
Flash Point:	Greater than 150° F.
Odour:	Characteristic

#### PRODUCT APPLICATION DETAILS:

BREAK 6709 should be injected into the crude via a metering pump at a point of high turbulence. For some applications, where there are very tight emulsions present, it may be necessary to inject BREAK 6709 at the well head but in most cases it can be added at the manifold entering the treating station.

Each individual application must be assessed using bottle tests and field trials to obtain the optimum dose levels and injection points before any full-scale use is attempted. The normal dose rate will usually be in the range of 5 to 50 PPM based on the total fluids produced.



BREAK 6709 - Continue

**PRODUCT HANDLING DETAILS:**

BREAK 6709 is formulated in a heavy aromatic solvent and therefore prolonged or repeated skin contact should be avoided. Any spillages should be promptly absorbed with sand or earth, which can then be removed to an approved landfill or incinerated.

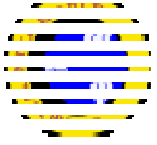
In case of skin contact, remove all contaminated clothing and wash the affected area with soap and water. Launder all contaminated clothing before re-use.

In the case of eye contact, hold the eyelids open and flush the eyes with water for 15 minutes. Seek immediate medical advice.

In the case of ingestion, drink large quantities of milk or water and seek immediate medical aid. Do not induce vomiting.

**PRODUCT PACKAGING DETAILS:**

BREAK 6709 is supplied in 55 US gallon steel drums.



## BREAK 6710

### PRODUCTION DEMULSIFIER FOR OILFIELD CRUDE EMULSIONS

#### Product description:

BREAK 6710 is a blend of alkoxyated resins and high molecular weight polyols in an aromatic solvent. BREAK 6710 has been formulated to give good emulsion breaking rapid water separation in a range of medium to high API gravity crudes. Demulsifiers can however be very selective and should always be bottle tested before being used to treat specific crudes.

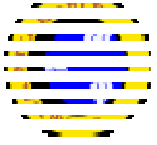
#### TYPICAL PHYSICAL PROPERTIES:

Colour:	Amber Liquid.
Specific Gravity @ 30° C:	0.95 to 0.99 Gr/Cm <sup>3</sup>
Viscosity @ 30° C:	Less than 500 Cps.
Pour Point:	Below 0° C.
Flash Point:	Greater than 150° F.
Odour:	Characteristic.

#### PRODUCT APPLICATION DETAILS:

BREAK 6710 should be injected into the crude via a metering pump at a point of high turbulence. For some applications, where there are very tight emulsions present, it may be necessary to inject BREAK 6710 at the well head but in most cases it can be added at the manifold entering the treating station.

Each individual application must be assessed using bottle tests and field trials to obtain the optimum dose levels and injection points before any full-scale use is attempted. The normal dose rate will usually be in the range of 5 to 50 PPM based on the total fluids produced.



BREAK 6710 - Continue

**PRODUCT HANDLING DETAILS:**

BREAK 6710 is formulated in a heavy aromatic solvent and therefore prolonged or repeated skin contact should be avoided. Any spillages should be promptly absorbed with sand or earth, which can then be removed to an approved landfill or incinerated.

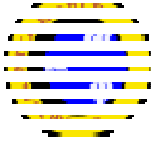
In case of skin contact, remove all contaminated clothing and wash the affected area with soap and water. Launder all contaminated clothing before re-use.

In the case of eye contact, hold the eyelids open and flush the eyes with water for 15 minutes. Seek immediate medical advice.

In the case of ingestion, drink large quantities of milk or water and seek immediate medical aid. Do not induce vomiting.

**PRODUCT PACKAGING DETAILS:**

BREAK 6710 is supplied in 55 US gallon steel drums.



## BREAK 6715

### PRODUCTION DEMULSIFIER FOR OILFIELD CRUDE EMULSIONS

#### Product description:

BREAK 6715 is a blend of alkoxyated resins and high molecular weight polyols in an aromatic solvent. BREAK 6715 has been formulated to give good emulsion breaking rapid water separation in a range of medium to high API gravity crudes. Demulsifiers can however be very selective and should always be bottle tested before being used to treat specific crudes.

#### TYPICAL PHYSICAL PROPERTIES:

Color:	Amber Liquid.
Specific Gravity @ 30° C:	0.95 to 0.99 Gr/Cm <sup>3</sup>
Viscosity @ 30° C:	Less than 500 Cps.
Pour Point:	Below 0° C.
Flash Point:	Greater than 150° F.
Odour:	Characteristic

#### PRODUCT APPLICATION DETAILS:

BREAK 6715 should be injected into the crude via a metering pump at a point of high turbulence. For some applications, where there are very tight emulsions present, it may be necessary to inject BREAK 6715 at the well head but in most cases it can be added at the manifold entering the treating station.

Each individual application must be assessed using bottle tests and field trials to obtain the optimum dose levels and injection points before any full-scale use is attempted. The normal dose rate will usually be in the range of 5 to 50 PPM based on the total fluids produced.





BREAK 6715 - Continue

**PRODUCT HANDLING DETAILS:**

BREAK 6715 is formulated in a heavy aromatic solvent and therefore prolonged or repeated skin contact should be avoided. Any spillages should be promptly absorbed with sand or earth, which can then be removed to an approved landfill or incinerated.

In case of skin contact, remove all contaminated clothing and wash the affected area with soap and water. Launder all contaminated clothing before re-use.

In the case of eye contact, hold the eyelids open and flush the eyes with water for 15 minutes. Seek immediate medical advice.

In the case of ingestion, drink large quantities of milk or water and seek immediate medical aid. Do not induce vomiting.

**PRODUCT PACKAGING DETAILS:**

BREAK 6715 is supplied in 55 US gallon steel drums.



## BREAK 6724

### PRODUCTION DEMULSIFIER FOR OILFIELD CRUDE EMULSIONS

#### Product description:

BREAK 6724 is a blend of alkoxyated resins and high molecular weight polyols in an aromatic solvent. BREAK 6724 has been formulated to give good emulsion breaking rapid water separation in a range of medium to high API gravity crudes. Demulsifiers can however be very selective and should always be bottle tested before being used to treat specific crudes.

#### TYPICAL PHYSICAL PROPERTIES:

Colour:	Amber Liquid.
Specific Gravity @ 30° C:	0.95 to 0.99 Gr/Cm <sup>3</sup>
Viscosity @ 30° C:	Less than 500 Cps.
Pour Point:	Below 0° C.
Flash Point:	Greater than 150° F.
Odour:	Characteristic

#### PRODUCT APPLICATION DETAILS:

BREAK 6724 should be injected into the crude via a metering pump at a point of high turbulence. For some applications, where there are very tight emulsions present, it may be necessary to inject BREAK 6724 at the well head but in most cases it can be added at the manifold entering the treating station.

Each individual application must be assessed using bottle tests and field trials to obtain the optimum dose levels and injection points before any full-scale use is attempted. The normal dose rate will usually be in the range of 5 to 50 PPM based on the total fluids produced.



BREAK 6724 - Continue

**PRODUCT HANDLING DETAILS:**

BREAK 6724 is formulated in a heavy aromatic solvent and therefore prolonged or repeated skin contact should be avoided. Any spillages should be promptly absorbed with sand or earth, which can then be removed to an approved landfill or incinerated.

In case of skin contact, remove all contaminated clothing and wash the affected area with soap and water. Launder all contaminated clothing before re-use.

In the case of eye contact, hold the eyelids open and flush the eyes with water for 15 minutes. Seek immediate medical advice.

In the case of ingestion, drink large quantities of milk or water and seek immediate medical aid. Do not induce vomiting.

**PRODUCT PACKAGING DETAILS:**

BREAK 6724 is supplied in 55 US gallon steel drums.



## BREAK 6726

### PRODUCTION DEMULSIFIER FOR OILFIELD CRUDE EMULSIONS

#### Product description:

BREAK 6726 is a blend of alkoxyated resins and high molecular weight polyols in an aromatic solvent. BREAK 6726 has been formulated to give good emulsion breaking rapid water separation in a range of medium to high API gravity crudes. Demulsifiers can however be very selective and should always be bottle tested before being used to treat specific crudes.

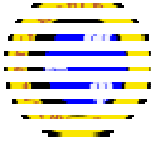
#### TYPICAL PHYSICAL PROPERTIES:

Colour:	Amber Liquid.
Specific Gravity @ 30° C:	0.95 to 0.99 Gr/Cm <sup>3</sup>
Viscosity @ 30° C:	Less than 500 Cps.
Pour Point:	Below 0° C.
Flash Point:	Greater than 150° F.
Odour:	Characteristic

#### PRODUCT APPLICATION DETAILS:

BREAK 6726 should be injected into the crude via a metering pump at a point of high turbulence. For some applications, where there are very tight emulsions present, it may be necessary to inject BREAK 6726 at the well head but in most cases it can be added at the manifold entering the treating station.

Each individual application must be assessed using bottle tests and field trials to obtain the optimum dose levels and injection points before any full-scale use is attempted. The normal dose rate will usually be in the range of 5 to 50 PPM based on the total fluids produced.



BREAK 6726 - Continue

**PRODUCT HANDLING DETAILS:**

BREAK 6726 is formulated in a heavy aromatic solvent and therefore prolonged or repeated skin contact should be avoided. Any spillages should be promptly absorbed with sand or earth, which can then be removed to an approved landfill or incinerated.

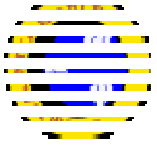
In case of skin contact, remove all contaminated clothing and wash the affected area with soap and water. Launder all contaminated clothing before re-use.

In the case of eye contact, hold the eyelids open and flush the eyes with water for 15 minutes. Seek immediate medical advice.

In the case of ingestion, drink large quantities of milk or water and seek immediate medical aid. Do not induce vomiting.

**PRODUCT PACKAGING DETAILS:**

BREAK 6726 is supplied in 55 US gallon steel drums.



## BREAK 6728

### PRODUCTION DEMULSIFIER FOR OILFIELD CRUDE EMULSIONS

#### Product description:

BREAK 6728 is a blend of alkoxyated resins and high molecular weight polyols in an aromatic solvent. BREAK 6728 has been formulated to give good emulsion breaking rapid water separation in a range of medium to high API gravity crudes. Demulsifiers can however be very selective and should always be bottle tested before being used to treat specific crudes.

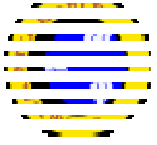
#### TYPICAL PHYSICAL PROPERTIES:

Appearance :	Amber Liquid.
Specific Gravity @ 30° C:	0.95 to 0.99 Gr/Cm <sup>3</sup>
Viscosity @ 30° C:	Less than 500 Cps.
Pour Point:	Below 0° C.
Flash Point:	Greater than 150° F.
Odour:	Characteristic

#### PRODUCT APPLICATION DETAILS:

BREAK 6728 should be injected into the crude via a metering pump at a point of high turbulence. For some applications, where there are very tight emulsions present, it may be necessary to inject BREAK 6728 at the well head but in most cases it can be added at the manifold entering the treating station.

Each individual application must be assessed using bottle tests and field trials to obtain the optimum dose levels and injection points before any full-scale use is attempted. The normal dose rate will usually be in the range of 5 to 50 PPM based on the total fluids produced.



BREAK 6728 - Continue

**PRODUCT HANDLING DETAILS:**

BREAK 6728 is formulated in a heavy aromatic solvent and therefore prolonged or repeated skin contact should be avoided. Any spillages should be promptly absorbed with sand or earth, which can then be removed to an approved landfill or incinerated.

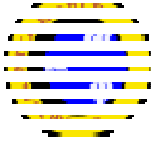
In case of skin contact, remove all contaminated clothing and wash the affected area with soap and water. Launder all contaminated clothing before re-use.

In the case of eye contact, hold the eyelids open and flush the eyes with water for 15 minutes. Seek immediate medical advice.

In the case of ingestion, drink large quantities of milk or water and seek immediate medical aid. Do not induce vomiting.

**PRODUCT PACKAGING DETAILS:**

BREAK 6728 is supplied in 55 US gallon steel drums.



## BREAK 6730

### PRODUCTION DEMULSIFIER FOR OILFIELD CRUDE EMULSIONS

#### Product description:

BREAK 6730 is a blend of alkoxyated resins and high molecular weight polyols in an aromatic solvent. BREAK 6730 has been formulated to give good emulsion breaking rapid water separation in a range of medium to high API gravity crudes. Demulsifiers can however be very selective and should always be bottle tested before being used to treat specific crudes.

#### TYPICAL PHYSICAL PROPERTIES:

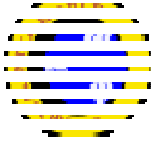
Appearance :	Amber Liquid.
Specific Gravity @ 30° C:	0.95 to 0.99 Gr/Cm <sup>3</sup>
Viscosity @ 30° C:	Less than 500 Cps.
Pour Point:	Below 0° C.
Flash Point:	Greater than 150° F.
Odour:	Characteristic

#### PRODUCT APPLICATION DETAILS:

BREAK 6730 should be injected into the crude via a metering pump at a point of high turbulence. For some applications, where there are very tight emulsions present, it may be necessary to inject BREAK 6730 at the well head but in most cases it can be added at the manifold entering the treating station.

Each individual application must be assessed using bottle tests and field trials to obtain the optimum dose levels and injection points before any full-scale use is attempted. The normal dose rate will usually be in the range of 5 to 50 PPM based on the total fluids produced.





BREAK 6730 - Continue

**PRODUCT HANDLING DETAILS:**

BREAK 6730 is formulated in a heavy aromatic solvent and therefore prolonged or repeated skin contact should be avoided. Any spillages should be promptly absorbed with sand or earth, which can then be removed to an approved landfill or incinerated.

In case of skin contact, remove all contaminated clothing and wash the affected area with soap and water. Launder all contaminated clothing before re-use.

In the case of eye contact, hold the eyelids open and flush the eyes with water for 15 minutes. Seek immediate medical advice.

In the case of ingestion, drink large quantities of milk or water and seek immediate medical aid. Do not induce vomiting.

**PRODUCT PACKAGING DETAILS:**

BREAK 6730 is supplied in 55 US gallon steel drums.



## BREAK 6733

### PRODUCTION DEMULSIFIER FOR OILFIELD CRUDE EMULSIONS

#### Product description:

BREAK 6733 is a blend of alkoxyated resins and high molecular weight polyols in an aromatic solvent. BREAK 6733 has been formulated to give good emulsion breaking rapid water separation in a range of medium to high API gravity crudes. Demulsifiers can however be very selective and should always be bottle tested before being used to treat specific crudes.

#### TYPICAL PHYSICAL PROPERTIES:

Appearance :	Amber Liquid.
Specific Gravity @ 30° C:	0.95 to 0.99 Gr/Cm <sup>3</sup>
Viscosity @ 30° C:	Less than 500 Cps.
Pour Point:	Below 0° C.
Flash Point:	Greater than 150° F.
Odour:	Characteristic

#### PRODUCT APPLICATION DETAILS:

BREAK 6733 should be injected into the crude via a metering pump at a point of high turbulence. For some applications, where there are very tight emulsions present, it may be necessary to inject BREAK 6733 at the well head but in most cases it can be added at the manifold entering the treating station.

Each individual application must be assessed using bottle tests and field trials to obtain the optimum dose levels and injection points before any full-scale use is attempted. The normal dose rate will usually be in the range of 5 to 50 PPM based on the total fluids produced.



BREAK 6733 - Continue

**PRODUCT HANDLING DETAILS:**

BREAK 6733 is formulated in a heavy aromatic solvent and therefore prolonged or repeated skin contact should be avoided. Any spillages should be promptly absorbed with sand or earth, which can then be removed to an approved landfill or incinerated.

In case of skin contact, remove all contaminated clothing and wash the affected area with soap and water. Launder all contaminated clothing before re-use.

In the case of eye contact, hold the eyelids open and flush the eyes with water for 15 minutes. Seek immediate medical advice.

In the case of ingestion, drink large quantities of milk or water and seek immediate medical aid. Do not induce vomiting.

**PRODUCT PACKAGING DETAILS:**

BREAK 6733 is supplied in 55 US gallon steel drums.



## BREAK 6734

### PRODUCTION DEMULSIFIER FOR OILFIELD CRUDE EMULSIONS

#### Product description:

BREAK 6734 is a blend of alkoxyated resins and high molecular weight polyols in an aromatic solvent. BREAK 6734 has been formulated to give good emulsion breaking rapid water separation in a range of medium to high API gravity crudes. Demulsifiers can however be very selective and should always be bottle tested before being used to treat specific crudes.

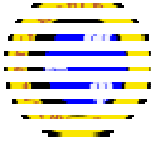
#### TYPICAL PHYSICAL PROPERTIES:

Appearance :	Amber Liquid.
Specific Gravity @ 30° C:	0.95 to 0.99 Gr/Cm <sup>3</sup>
Viscosity @ 30° C:	Less than 500 Cps.
Pour Point:	Below 0° C.
Flash Point:	Greater than 150° F.
Odour:	Characteristic

#### PRODUCT APPLICATION DETAILS:

BREAK 6734 should be injected into the crude via a metering pump at a point of high turbulence. For some applications, where there are very tight emulsions present, it may be necessary to inject BREAK 6734 at the well head but in most cases it can be added at the manifold entering the treating station.

Each individual application must be assessed using bottle tests and field trials to obtain the optimum dose levels and injection points before any full-scale use is attempted. The normal dose rate will usually be in the range of 5 to 50 PPM based on the total fluids produced.



BREAK 6734 - Continue

**PRODUCT HANDLING DETAILS:**

BREAK 6734 is formulated in a heavy aromatic solvent and therefore prolonged or repeated skin contact should be avoided. Any spillages should be promptly absorbed with sand or earth, which can then be removed to an approved landfill or incinerated.

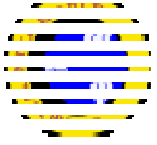
In case of skin contact, remove all contaminated clothing and wash the affected area with soap and water. Launder all contaminated clothing before re-use.

In the case of eye contact, hold the eyelids open and flush the eyes with water for 15 minutes. Seek immediate medical advice.

In the case of ingestion, drink large quantities of milk or water and seek immediate medical aid. Do not induce vomiting.

**PRODUCT PACKAGING DETAILS:**

BREAK 6734 is supplied in 55 US gallon steel drums.



## BREAK 6736

### PRODUCTION DEMULSIFIER FOR OILFIELD CRUDE EMULSIONS

#### Product description:

BREAK 6736 is a blend of alkoxyated resins and high molecular weight polyols in an aromatic solvent. BREAK 6736 has been formulated to give good emulsion breaking rapid water separation in a range of medium to high API gravity crudes. Demulsifiers can however be very selective and should always be bottle tested before being used to treat specific crudes.

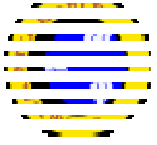
#### TYPICAL PHYSICAL PROPERTIES:

Appearance :	Amber Liquid.
Specific Gravity @ 30° C:	0.95 to 0.99 Gr/Cm <sup>3</sup>
Viscosity @ 30° C:	Less than 500 Cps.
Pour Point:	Below 0° C.
Flash Point:	Greater than 150° F.
Odour:	Characteristic

#### PRODUCT APPLICATION DETAILS:

BREAK 6736 should be injected into the crude via a metering pump at a point of high turbulence. For some applications, where there are very tight emulsions present, it may be necessary to inject BREAK 6736 at the well head but in most cases it can be added at the manifold entering the treating station.

Each individual application must be assessed using bottle tests and field trials to obtain the optimum dose levels and injection points before any full-scale use is attempted. The normal dose rate will usually be in the range of 5 to 50 PPM based on the total fluids produced.



BREAK 6736 - Continue

**PRODUCT HANDLING DETAILS:**

BREAK 6736 is formulated in a heavy aromatic solvent and therefore prolonged or repeated skin contact should be avoided. Any spillages should be promptly absorbed with sand or earth, which can then be removed to an approved landfill or incinerated.

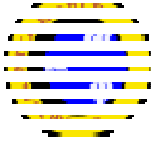
In case of skin contact, remove all contaminated clothing and wash the affected area with soap and water. Launder all contaminated clothing before re-use.

In the case of eye contact, hold the eyelids open and flush the eyes with water for 15 minutes. Seek immediate medical advice.

In the case of ingestion, drink large quantities of milk or water and seek immediate medical aid. Do not induce vomiting.

**PRODUCT PACKAGING DETAILS:**

BREAK 6736 is supplied in 55 US gallon steel drums.



## BREAK 6741

### PRODUCTION DEMULSIFIER FOR OILFIELD CRUDE EMULSIONS

#### Product description:

BREAK 6741 is a blend of alkoxyated resins and high molecular weight polyols in an aromatic solvent. BREAK 6741 has been formulated to give good emulsion breaking rapid water separation in a range of medium to high API gravity crudes. Demulsifiers can however be very selective and should always be bottle tested before being used to treat specific crudes.

#### TYPICAL PHYSICAL PROPERTIES:

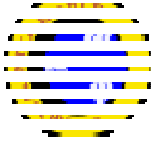
Appearance :	Amber Liquid.
Specific Gravity @ 30° C:	0.95 to 0.99 Gr/Cm <sup>3</sup>
Viscosity @ 30° C:	Less than 500 Cps.
Pour Point:	Below 0° C.
Flash Point:	Greater than 150° F.
Odour:	Characteristic

#### PRODUCT APPLICATION DETAILS:

BREAK 6741 should be injected into the crude via a metering pump at a point of high turbulence. For some applications, where there are very tight emulsions present, it may be necessary to inject BREAK 6741 at the well head but in most cases it can be added at the manifold entering the treating station.

Each individual application must be assessed using bottle tests and field trials to obtain the optimum dose levels and injection points before any full-scale use is attempted. The normal dose rate will usually be in the range of 5 to 50 PPM based on the total fluids produced.





BREAK 6741 - Continue

**PRODUCT HANDLING DETAILS:**

BREAK 6741 is formulated in a heavy aromatic solvent and therefore prolonged or repeated skin contact should be avoided. Any spillages should be promptly absorbed with sand or earth, which can then be removed to an approved landfill or incinerated.

In case of skin contact, remove all contaminated clothing and wash the affected area with soap and water. Launder all contaminated clothing before re-use.

In the case of eye contact, hold the eyelids open and flush the eyes with water for 15 minutes. Seek immediate medical advice.

In the case of ingestion, drink large quantities of milk or water and seek immediate medical aid. Do not induce vomiting.

**PRODUCT PACKAGING DETAILS:**

BREAK 6741 is supplied in 55 US gallon steel drums.



## BREAK 6742

### PRODUCTION DEMULSIFIER FOR OILFIELD CRUDE EMULSIONS

#### Product description:

BREAK 6742 is a blend of alkoxyated resins and high molecular weight polyols in an aromatic solvent. BREAK 6742 has been formulated to give good emulsion breaking rapid water separation in a range of medium to high API gravity crudes. Demulsifiers can however be very selective and should always be bottle tested before being used to treat specific crudes.

#### TYPICAL PHYSICAL PROPERTIES:

Appearance :	Amber Liquid.
Specific Gravity @ 30° C.:	0.95 to 0.99 Gr/Cm <sup>3</sup>
Viscosity @ 30° C.:	Less than 500 Cps.
Pour Point:	Below 0° C.
Flash Point:	Greater than 150° F.
Odour:	Characteristic

#### PRODUCT APPLICATION DETAILS:

BREAK 6742 should be injected into the crude via a metering pump at a point of high turbulence. For some applications, where there are very tight emulsions present, it may be necessary to inject BREAK 6742 at the well head but in most cases it can be added at the manifold entering the treating station.

Each individual application must be assessed using bottle tests and field trials to obtain the optimum dose levels and injection points before any full-scale use is attempted. The normal dose rate will usually be in the range of 5 to 50 PPM based on the total fluids produced.



BREAK 6742 - Continue

**PRODUCT HANDLING DETAILS:**

BREAK 6742 is formulated in a heavy aromatic solvent and therefore prolonged or repeated skin contact should be avoided. Any spillages should be promptly absorbed with sand or earth, which can then be removed to an approved landfill or incinerated.

In case of skin contact, remove all contaminated clothing and wash the affected area with soap and water. Launder all contaminated clothing before re-use.

In the case of eye contact, hold the eyelids open and flush the eyes with water for 15 minutes. Seek immediate medical advice.

In the case of ingestion, drink large quantities of milk or water and seek immediate medical aid. Do not induce vomiting.

**PRODUCT PACKAGING DETAILS:**

BREAK 6742 is supplied in 55 US gallon steel drums.



## BREAK 6744

### PRODUCTION DEMULSIFIER FOR OILFIELD CRUDE EMULSIONS

#### Product description:

BREAK 6744 is a blend of alkoxyated resins and high molecular weight polyols in an aromatic solvent. BREAK 6744 has been formulated to give good emulsion breaking rapid water separation in a range of medium to high API gravity crudes. Demulsifiers can however be very selective and should always be bottle tested before being used to treat specific crudes.

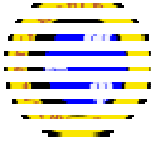
#### TYPICAL PHYSICAL PROPERTIES:

Appearance :	Amber Liquid.
Specific Gravity @ 30° C.:	0.95 to 0.99 Gr/Cm <sup>3</sup>
Viscosity @ 30° C.:	Less than 500 Cps.
Pour Point:	Below 0° C.
Flash Point:	Greater than 150° F.
Odour:	Characteristic

#### PRODUCT APPLICATION DETAILS:

BREAK 6744 should be injected into the crude via a metering pump at a point of high turbulence. For some applications, where there are very tight emulsions present, it may be necessary to inject BREAK 6744 at the well head but in most cases it can be added at the manifold entering the treating station.

Each individual application must be assessed using bottle tests and field trials to obtain the optimum dose levels and injection points before any full-scale use is attempted. The normal dose rate will usually be in the range of 5 to 50 PPM based on the total fluids produced.



BREAK 6744 - Continue

**PRODUCT HANDLING DETAILS:**

BREAK 6744 is formulated in a heavy aromatic solvent and therefore prolonged or repeated skin contact should be avoided. Any spillages should be promptly absorbed with sand or earth which can then be removed to an approved landfill or incinerated.

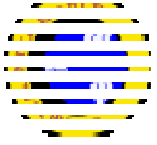
In case of skin contact, remove all contaminated clothing and wash the affected area with soap and water. Launder all contaminated clothing before re-use.

In the case of eye contact, hold the eyelids open and flush the eyes with water for 15 minutes. Seek immediate medical advice.

In the case of ingestion, drink large quantities of milk or water and seek immediate medical aid. Do not induce vomiting.

**PRODUCT PACKAGING DETAILS:**

BREAK 6744 is supplied in 55 US gallon steel drums.



## BREAK 6750

### PRODUCTION DEMULSIFIER FOR OILFIELD CRUDE EMULSIONS

#### Product description:

BREAK 6750 is a blend of alkoxyated resins and high molecular weight polyols in an aromatic solvent. BREAK 6750 has been formulated to give good emulsion breaking rapid water separation in a range of medium to high API gravity crudes. Demulsifiers can however be very selective and should always be bottle tested before being used to treat specific crudes.

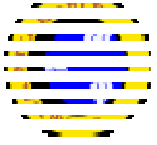
#### TYPICAL PHYSICAL PROPERTIES:

Appearance :	Amber Liquid.
Specific Gravity @ 30° C:	0.95 to 0.99 Gr/Cm <sup>3</sup>
Viscosity @ 30° C:	Less than 500 Cps.
Pour Point:	Below 0° C.
Flash Point:	Greater than 150° F.
Odour:	Characteristic

#### PRODUCT APPLICATION DETAILS:

BREAK 6750 should be injected into the crude via a metering pump at a point of high turbulence. For some applications, where there are very tight emulsions present, it may be necessary to inject BREAK 6750 at the well head but in most cases it can be added at the manifold entering the treating station.

Each individual application must be assessed using bottle tests and field trials to obtain the optimum dose levels and injection points before any full-scale use is attempted. The normal dose rate will usually be in the range of 5 to 50 PPM based on the total fluids produced.



BREAK 6750 - Continue

**PRODUCT HANDLING DETAILS:**

BREAK 6750 is formulated in a heavy aromatic solvent and therefore prolonged or repeated skin contact should be avoided. Any spillages should be promptly absorbed with sand or earth which can then be removed to an approved landfill or incinerated.

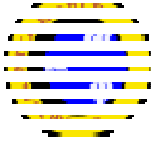
In case of skin contact, remove all contaminated clothing and wash the affected area with soap and water. Launder all contaminated clothing before re-use.

In the case of eye contact, hold the eyelids open and flush the eyes with water for 15 minutes. Seek immediate medical advice.

In the case of ingestion, drink large quantities of milk or water and seek immediate medical aid. Do not induce vomiting.

**PRODUCT PACKAGING DETAILS:**

BREAK 6750 is supplied in 55 US gallon steel drums.



## **BREAK 6754**

### **High concentration PRODUCTION DEMULSIFIER**

#### **Product description:**

BREAK 6754 is a blend alkoxylated resins and high molecular weight polyols in an aromatic solvent. BREAK 6754 has been formulated to give good breaking rapid water separation in a range of medium to high API gravity crudes. Demulsifiers can however be very selective and always be bottle tested before being used to treat specific crudes.

#### **TYPICAL PHYSICAL PROPERTIES:**

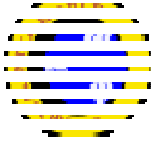
Appearance:	Amber Liquid.
Specific Gravity @ 30° C:	0.91 to 0.93
Viscosity @ 30° C:	Less than 50 Cps
Pour Point:	Below 0° C.
Flash Point:	Greater than 150° F
Solubility:	Oil

#### **PRODUCT APPLICATION DETAILS:**

BREAK 6754 should be injected into the crude via a metering pump at a point of high turbulence. For some applications, where there are very tight emulsions present, it may be necessary to inject BREAK 6754 at the well head but in most cases it can be added at the manifold entering the treating station. Each individual application must be assessed using bottle tests and field trials to obtain the optimum dose levels and injection points before any full scale use is attempted.

The normal dose rate will usually be in the range of 5 to 50 ppm based on the total fluids produced.





BREAK 6754 - Continue

**PRODUCT HANDLING DETAILS:**

BREAK 6754 is formulated in a heavy aromatic solvent and therefore prolonged or repeated skin contact should be avoided. Any spillages should be promptly absorbed with sand or earth which can then be removed to an approved land fill or incinerated.

In case of skin contact remove all contaminated clothing and wash the affected area with soap and water. Launder all contaminated clothing before re-use.

In the case of eye contact, hold the eyelids open and flush the eyes with water for 15 minutes. Seek immediate medical advise.

In the case of ingestion, drink large quantities of milk or water and seek immediate medical aid. Do not induce vomiting.

**PRODUCT PACKAGING DETAILS:**

BREAK 7654 is normally supplied in 55 US gallon steel.



## **BREAK 6756**

### **PRODUCTION DEMULSIFIER**

#### **Product description:**

BREAK 6756 is a blend alkoxyated resins and high molecular weight polyols in an aromatic solvent. BREAK 6756 has been formulated to give good breaking rapid water separation in a range of medium to high API gravity crudes. Demulsifiers can however be very selective and always be bottle tested before being used to treat specific crudes.

#### **TYPICAL PHYSICAL PROPERTIES:**

Appearance:	Amber Liquid.
Specific Gravity @ 30° C:	0.90 to 0.93
Viscosity @ 30° C:	Less than 50 Cps.
Pour Point:	Below 0° C.
Flash Point:	Greater than 120° F.
Solubility:	Oil

#### **PRODUCT APPLICATION DETAILS:**

BREAK 6756 should be injected into the crude via a metering pump at a point of high turbulence. For some applications, where there are very tight emulsions present, it may be necessary to inject BREAK 6756 at the well head but in most cases it can be added at the manifold entering the treating station. Each individual application must be assessed using bottle tests and field trials to obtain the optimum dose levels and injection points before any full scale use is attempted.

The normal dose rate will usually be in the range of 5 to 50 ppm based on the total fluids produced.



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BREAK 6756- Continue

### **PRODUCT HANDLING DETAILS:**

BREAK 6756 is formulated in a heavy aromatic solvent and therefore prolonged or repeated skin contact should be avoided. Any spillages should be promptly absorbed with sand or earth which can then be removed to an approved land fill or incinerated.

In case of skin contact remove all contaminated clothing and wash the affected area with soap and water. Launder all contaminated clothing before re-use.

In the case of eye contact, hold the eyelids open and flush the eyes with water for 15 minutes. Seek immediate medical advise.

In the case of ingestion, drink large quantities of milk or water and seek immediate medical aid. Do not induce vomiting.

### **PRODUCT PACKAGING DETAILS:**

BREAK 7656 is normally supplied in 55 US gallon steel.



## **BREAK 6756-C**

### **PRODUCTION DEMULSIFIER**

#### **Product description:**

BREAK 6756-C is a blend alkoxyated resins and high molecular weight polyols in an aromatic solvent. BREAK 6756-C has been formulated to give good breaking rapid water separation in a range of medium to high API gravity crudes. Demulsifiers can however be very selective and always be bottle tested before being used to treat specific crudes.

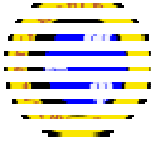
#### **TYPICAL PHYSICAL PROPERTIES:**

Appearance:	Amber Liquid.
Specific Gravity @ 30° C:	0.90 to 0.93
Viscosity @ 30° C:	Less than 50 Cps.
Pour Point:	Below 0° C.
Flash Point:	Greater than 118-130° F.
Solubility:	Oil

#### **PRODUCT APPLICATION DETAILS:**

BREAK 6756-C should be injected into the crude via a metering pump at a point of high turbulence. For some applications, where there are very tight emulsions present, it may be necessary to inject BREAK 6756-C at the well head but in most cases it can be added at the manifold entering the treating station. Each individual application must be assessed using bottle tests and field trials to obtain the optimum dose levels and injection points before any full scale use is attempted.

The normal dose rate will usually be in the range of 20 to 30 ppm based on the total fluids produced.



BREAK 6756-C Continue

**PRODUCT HANDLING DETAILS:**

BREAK 6756-C is formulated in a heavy aromatic solvent and therefore prolonged or repeated skin contact should be avoided. Any spillages should be promptly absorbed with sand or earth which can then be removed to an approved land fill or incinerated.

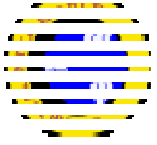
In case of skin contact remove all contaminated clothing and wash the affected area with soap and water. Launder all contaminated clothing before re-use.

In the case of eye contact, hold the eyelids open and flush the eyes with water for 15 minutes. Seek immediate medical advise.

In the case of ingestion, drink large quantities of milk or water and seek immediate medical aid. Do not induce vomiting.

**PRODUCT PACKAGING DETAILS:**

BREAK 7656-C is normally supplied in 55 US gallon steel.



## Break 6767

### PRODUCTION DEMULSIFIER

#### Production description:

Break 6767 demulsifier is a blend of alkoxyated resins high molecular weight polyols and alkoxyated amines in an aromatic solvent. They have been formulated to give good emulsion breaking rapid water separation in a range of medium to high API gravity crudes. Demulsifiers can however be very selective and should always be bottle tested before being used to treat specific crude.

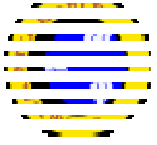
Break 6767 was designed to be effective on Iranian crude oils, with particular emphasis on leaving dry pipeline oil and giving fast water drop for onshore platform use.

#### Typical physical properties:

Appearance:	Amber liquids
Specific Gravity@ 30° C:	0.91 to 0.93
Pour Point:	Below 0° C
Flash point:	Grather than 120°F
Viscosity at 30° C:	Less than 50 cps
Solubility:	Oil

#### Product application details:

Break 6767 demulsifier should be injected into the crude via metering pumps at a point of high turbulence. For some applications, where there are very tight emulsions present, it may be necessary to inject them at the well heads, but in most cases it can be added at the manifold entering the treating stations. Each individual application must be excused using bottle tests and field trials to obtain the optimum Does levels and injection points before any full scale use is attempted. The normal Does rate will usually be in the range of 20 to 30 ppm based on the total fluids produced.



BREAK 6767- Continue

**Product packaging details:**

Break 6767 is normally supplied in 55US gallon steel drums.

**Product handling details:**

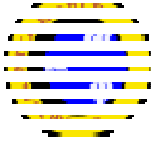
Formulated in a heavy aromatic solvent and therefore prolonged or repeated skin contact should be avoided. Any spillages should be promptly absorbed with sand or earth which can then be removed land fill or incinerated.

In case of skin contact, remove all contaminated clothing and wash the affected area with soap and water. Launder all contaminated clothing before re-use.

In the case of eye contact hold the eyelids open and flush the eyes with water for 15 minutes. Seek immediate medical advice.

In the case of ingestion, drink large quantities of milk or water and seek immediate aid. DO NOT induce vomiting.

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## BREAK 6800

### PRODUCTION DEMULSIFER FOR OILFIELD CRUDE EMULSIONS.

#### Product description:

BREAK 6800 is a blend of alkoxyated resins and high molecular weight polyols, designed to promote the demulsification of medium to high API gravity crudes.

#### TYPICAL PHYSICAL PROPERTIES:

Appearance:	Dark Brown liquid.
Specific Gravity @ 30° C:	0.95 to 0.99 Gr/Cm <sup>3</sup>
Viscosity @ 30° C.:	Less than 50 Cps.
Pour Point:	Less than 0° C.
Flash Point:	Greater than 150° F.
Odour:	Characteristic

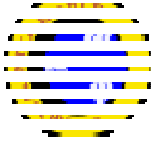
#### PRODUCT APPLICATION DETAILS:

BREAK 6800 is designed to promote the demulsification of medium to high API gravity crudes. Demulsifiers are often quite specific in their effectiveness and so the suitability of BREAK 6800 should be determined for each individual application before field use. This can be done by means of a bottle test, which if successful can be confirmed by a field trial.

Before applying BREAK 6800, a thorough survey of the system should be carried out to ascertain the most effective injection points. If the field contains one or two "problem" wells, it may be necessary to inject BREAK 6800 at the well heads.

BREAK 6800 would however normally be added at the collection manifold in the treating station by means of a chemical-dosing pump. Optimum treating rates will vary for each individual application, but will normally be in the range of 5 to 50 PPM. Based on the total fluids.





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BREAK 6800 - Continue

### **PRODUCT HANDLING DETAILS:**

BREAK 6800 is formulated in a heavy aromatic solvent and so eye and skin contact should be avoided. Goggles and gloves should always be worn when handling BREAK 6800.

In the case of skin contact, remove all contaminated clothing and wash the affected area with soap and water. Launder all contaminated clothing before re use.

In the case of eye contact, hold the eyelids open and flush the eyes with water for 15 minutes. Seek medical aid.

In the case of ingestion, drink large amounts of milk or water and seek immediate medical aid. Do not Induce Vomiting.

### **PRODUCT PACKING DETAILS:**

BREAK 6800 is supplied in 55 US gall drums.



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**BREAK 6766  
PRODUCTION DEMULSIFIER**

**Product description:**

This range of BREAK demulsifiers are blends of alkoxyated resins, high molecular weight polyols, and alkoxyated amines in an aromatic solvent. They have been formulated to give good emulsion breaking rapid water separation in a range of medium to high API gravity crudes. Demulsifier can however be bottle tested before being used to treat specific crudes.

The BREAK 6766 was designed to be affective on Iranian crude oils, with particular emphasis on leaving dry pipeline oil, and giving fast water drop, for use on offshore platforms.

**TYPICAL PHYSICAL PROPERTIES:**

Appearance:	Amber liquids
Specific Gravity @ 30° C:	0.90 to 0.95
Pour Point:	Below 0° C
Flash Point:	142° F
Viscosity at 30° C:	Less than 50 cps
Solubility:	Oil

**PRODUCT APPLICATION DETAILS:**

BREAK 6766 demulsifier should be injected into the crude via metering pumps at a point of high turbulence. For some applications, where there are very tight emulsions present, it may be necessary to inject them at the wellheads, but in most cases it can be added at the manifold entering the treating stations. Each individual application must be assessed using bottle tests and field trials to obtain the optimum dose levels and injection points before any full-scale use is attempted. The normal does rate will usually be in the range of 5 to 50 ppm based on the total fluids produced. BREAK 6766 is formulated to one the fastest and maximum water drop from wet crude.



BREAK 6766 - Continue

**PRODUCT HANDLING DETAILS**

Formulated in a heavy aromatic solvent and therefore prolonged or repeated skin contact should be avoided. Any spillages should be promptly absorbed with sand or earth, which can then be removed to an approved land fill or incinerated.

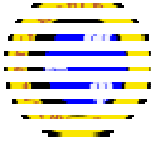
In case of skin contact, remove all contaminated and wash the affected area with soap and water. Launder all contaminated clothing before reuse.

In the case of eye contact, hold the eyelids open and flush the eyes with water for 15 minutes. Seek immediate medical advice.

In the case of ingestion, drink large quantities of milk or water and seek immediate medical aid. DO NOT induce vomiting.

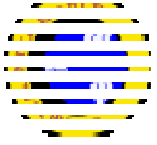
**PACKAGING DETAILS:**

BREAK 6766 is normally supplied in 55 US gallon steel drums.



**SECTION “ B “**  
**SNG SCALE INHIBITOR PRODUCTION PRODUCTS**

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## SCALE 3512

### PRODUCTION SCALE INHIBITOR

#### Product description:

SCALE 3512 is an organic soluble organic phosphate based scale inhibitor designed to control carbonate and sulphate deposits in oil and gas production systems, water injection and produced water disposal systems.

SCALE 3512 is soluble in most aqueous systems. It is not soluble in hydrocarbons.

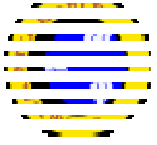
#### TYPICAL PHYSICAL PROPERTIES:

Appearance:	Yellow liquid.
Specific Gravity @ 30° C.:	1.10 to 1.20 Gr/Cm <sup>3</sup>
Viscosity @ 30° C.:	Less than 50 Cps.
Pour Point:	0° C.
Flash Point:	Greater than 150° F.
Freeze Point:	0° C.
pH @ 30° C.:	6.5 to 7.5

#### PRODUCT APPLICATION DETAILS:

SCALE 3512 should be diluted with good quality water and applied at a point of mixing. Stainless steel or plastic equipment must be used. Continuous injection is recommended.

Dosage rates depend upon the type of scale being deposited and the system being treated. Typical dosage rates for continuous treatment will be in the range 1 PPM to 10 PPM of SCALE 3512 based on the water flow rate. SCALE 3512 is particularly suitable for squeezing into formulations to control scaling in production tubing and wellhead equipment.



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SCALE 3512 - Continue

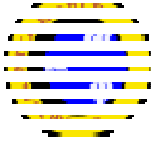
### **PRODUCT HANDLING DETAILS:**

Wear goggles and gloves. Avoid eyes and skin. Wash immediately with water following any contact, if eyes have been affected wash with a dilute solution of sodium bicarbonate and then seek medical attention. Wash spillages with water.

For large spillages absorb with earth or sand and dispose of this according to local regulations. Do not breath vapours. Store in a well-ventilated areas. Protect from frost and direct sunlight.

### **PRODUCT PACKAGING DETAILS:**

SCALE 3512 is supplied in 55 US gallon lined drums or plastic drums.



## SCALE 3513

### PRODUCTION SCALE INHIBITOR

#### Product description:

SCALE 3513 is a water-soluble synergistic blend of polymers and phosphonates, designed to give good inhibition of both calcium carbonate and calcium sulphate scales.

#### TYPICAL PHYSICAL PROPERTIES:

Appearance:	Amber liquid.
Specific Gravity @ 30° C:	1.05 to 1.15 Gr/Cm <sup>3</sup>
Viscosity :	Less than 100 Cps.
Pour Point:	0° C.
Flash Point:	Greater than 150° F.
pH:	4.5 to 5.5

#### PRODUCT APPLICATION DETAILS:

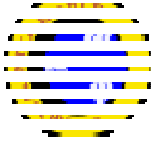
SCALE 3513 can be used in producing wells and separating equipment, water floods and water disposal systems.

For producing wells, SCALE 3513 must be added to the system at a point before the scale has formed. It is therefore best to inject the inhibitor down a macaroni string. Optimum dose levels will usually be in the range of 2 to 10 PPM, depending on the severity of the problem.

For water floods, SCALE 3513 must be added to the system at a point before any scale formation. A metering pump should be used to inject the inhibitor on a continuous basis. The optimum dose level will usually be in the range of 2 to 10 PPM depending on the water analysis and the scaling predictions.

For water disposal systems, SCALE 3513 will give good scale inhibition when added at a point before the formation of scale. The optimum dose level will usually be in the range of 2 to 5 PPM, depending on the severity of the problem and the residence time in the system.





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SCALE 3513 - Continue

### **PRODUCT HANDLING DETAILS:**

SCALE 3513 is slightly acidic. Wear goggles and gloves when handling.

In the case of skin contact, remove all contaminated clothing and wash the affected area with soap and water. Launder all contaminated clothing before re use.

In the case of eye contact, hold the eyelids open and flush the eyes with water for 15 minutes. Seek medical aid.

In the case of ingestion, drink large amounts of milk or water and seek immediate medical aid. Do not induce vomiting.

### **PRODUCT PACKAGING DETAILS:**

SCALE 3513 is supplied in 55 US gallon lined drums or plastic drums.



## SCALE 7075

### PRODUCTION SCALE INHIBITOR

#### Product description:

SCALE 7075 is an organic polymer formulation with a neutral pH designed to prevent scale deposition in oil – field applications.

#### TYPICAL PHYSICAL PROPERTIES:

Appearance:	Colourless liquid
Specific Gravity @ 30° C:	1.10 to 1.20
Viscosity @ 30° C:	Less than 100 cps
Flash Point:	Greater than 150° F
Freezing Point:	Less than 0 cps
PH:	6.8 to 7.2
Solubility:	water and Brine

#### PRODUCT APPLICATION DETAILS:

SCALE 7075 is an organic polymer based formulation, particularly effective on calcium carbonate and sulphate scales. It can be used to inhibit scale formation by continuous injection or by formation squeezing.

SCALE 7075 must be injection as far back as the system will allow to give adequate contact with the water, before scaling is expected.

Pre dilutions with fresh water are sometimes used for ease of dispersion in the system. A dosage rate of 5 parts per million maximum is required for control of calcium carbonate scaling tendencies. A maximum dosage rate of 10 parts per milliom is required for the control of calcium sulphate.

As with all scale applications, SCALE 7075 should be tested in the laboratory prior to field use, on conventional scale rigs.



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SCALE 7075 – Continue

### **PRODUCT HANDLING DETAILD:**

SCALE 7075 is not considered harmful, but normal precautions must be observed, such as using eye goggles, and washing hands after using.

### **PRODUCT PACKING DETAILS:**

SCALE 7075 is packaged in lined 55 US gallon drums or plastic drums.



## SCALE 7100

### PRODUCTION CORROSION AND SCALE INHIBITOR

#### Product description:

SCALE 7100 is blended formulation of amines, fatty acids, surfactants and polymers in a water solvent, and used to prevent corrosion and scale problems in oilfield applications.

#### TYPICAL PHYSICAL PROPERTIES:

Appearance:	Amber liquid
Specific Gravity @ 30° C.:	1.00 to 1.10
Flash Point:	Greater than 150° F
Viscosity @ 30° C:	Less than 250 cps
Pour Point:	Less than 0°
Solubility :	Water and brines
pH:	7.0 to 8.0

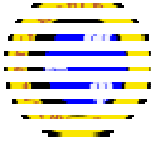
#### PRODUCT APPLICATION DETAILS:

SCALE 7100 is water soluble corrosion inhibitor with effectiveness against scale deposition which is formulated to give overall effectiveness in all oil related corrosion problems in the oil industry.

The scale inhibitor effectiveness assists in the corrosion control by removing scale deposits and allowing the filming amine to plate out.

The most common applications are crude oil wells, crude oil flowlines and pipeline systems. The method of application SCALE 7100 is usually continuous injection . It has a high degree of solubility in all produced waters and fresh water.

This product has a low tendency to emulsify produced fluids and if required the formulation can be enhanced to reduce its emulsification tendencies further.



SCALE 7100 Continue.

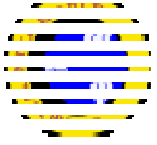
SCALE 7100 is an effective combination scale and corrosion control additive that can remove the need for a two chemical injection point to control a problem of scale and corrosion. In many cases the corrosion control is greatly improved, by removing scale deposits , which promote localised corrosion.

**PRODUCT HANDLING DETAILS:**

May be harmful or fatal if swallowed . Causes skin and eye irritation. Do not allow contact with eyes, wear safety glasses when handling. If contact with eyes occurs wash with water for 15 minutes and get medical aid. Avoid contact with skin or clothing, If contact occurs wash with water or remove any contaminated clothing.

**PRODUCT PACKAGING DETAILS:**

SCALE 7100 is packaged in 55 U.S. gallon lined drums or plastic drums.



## SCALE 7261

### PRODUCTION SCALE INHIBITOR

#### Product description:

SCALE 7261 is a formulated product containing the sodium salt of an amino phosphoric acid. It is particularly effective in preventing deposition of calcium carbonate and barium sulphate. SCALE 7261 is effective in produced waters and injection water operating with a scale forming index.

#### TYPICAL PHYSICAL PROPERTIES:

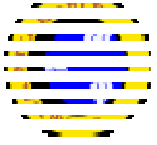
Appearance:	Amber liquid
Specific Gravity @ 30° C:	1.10 to 1.20
Flash Point:	Greater than 150° F
Viscosity @ 30° C:	Less than 100 cps.
Solubility :	Water and brine
pH:	6.5 to 7.5

#### PRODUCT APPLICATION DETAILS:

SCALE 7261 may be applied neat or diluted with soft water before use. When used as supplied, dosing pumps and lines should be suitable plastic material, otherwise stainless steel equipment may be used. Carbon steel is not suitable.

Dosage, for continuous treatment, will vary from 2 ppm to 25 ppm based on the water quality and the conditions of use such as downhole, or surface additions, SCALE 7261 can be batch treated down the well, and the dosage rate is variable, depending upon requirements.

A good approximation, is to batch the equivalent of 200 ppm, based upon the daily flow rate. Using the “burp” technique will considerably improve the effectiveness of SCALE 7261.



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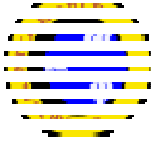
SCALE 7261 Continue.

### **PRODUCT HANDLING DETAILS:**

Contact with skin and eyes must be avoided. Protective clothing must be worn including gloves and goggles. In case of contact with the skin or eyes, wash immediately with clean water for at least 15 minutes and seek medical attention. Contaminated clothing should be removed and laundered before re-use.

### **PRODUCT PACKAGING DETAILS:**

SCALE 7261 is supplied in 55 US gallon drums.



## SCALE 7511

### PRODUCTION DISPERSANT AND SCALE INHIBITOR

#### Product description:

SCALE 7511 is a combination of organic phosphate and polymers designed to control carbonate deposits in oil and gas production systems , water injection and produced water disposal systems. The problem is identical in each case are SCALE 7511 is suitable for all application.

SCALE 7511 is soluble in most aqueous systems. It is not soluble in hydrocarbons.

#### TYPICAL PHYSICAL PROPERTIES:

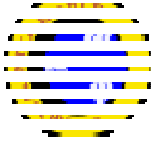
Appearance:	Yellow liquid
Specific Gravity @ 30° C:	1.02 to 1.09
Flash Point:	Greater than 150° F
Viscosity @ 30° C:	Less than 50 cps
Freeze Point:	Less than 0° C
Solubility :	Water and brines
pH:	4.7 to 5.3

#### PRODUCT APPLICATION DETAILS:

SCALE 7511 should be diluted in water, to a 10% solution and applied at a suitable point in the system to give adequate mixing. Continuous injection is recommended.

Dosage rates will depend upon the type of scale being deposited and the system being treated. Typical dosage rates will be in the range 0.5 ppm to 5 ppm based on the water flow rate.





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SCALE 7511 Continue.

### **PRODUCT HANDLING DETAILS:**

SCALE 7511 is acidic. Wear goggles and gloves. Avoid contact with eyes and skin. Wash immediately with water following any contact, if eyes have been affected wash with a diluted solution of sodium bicarbonate and then seek medical attention. Wash spillages with water. For large spillages absorb with earth or sand dispose of this according to local regulation. Do not breathe vapours and store in well ventilated areas. Protect from frost and direct sunlight.

### **PRODUCT PACKAGING DETAILS:**

SCALE 7511 is packaged in lined 55 USG drums or plastic drums.



## SCALE 7577

### PRODUCTION SCALE INHIBITOR

#### PRODUCT DESCRIPTION :

SCALE 7577 is an organic polymer formulation with a neutral pH designed to prevent scale deposition in oil-field applications.

#### TYPICAL PHYSICAL PROPERTIES:

Appearance:	Colorless liquid.
Specific Gravity @ 30° C:	1.10 to 1.20
Viscosity @ 30° C:	Less than 100 Cps.
Flash Point:	Greater than 150° F.
Solubility:	Water and brine
pH:	6.8 to 7.2

#### PRODUCT APPLICATION DETAILS:

SCALE 7577 is an organic phosphate based formulation, particularly effective on calcium sulfate scales, It can be used to inhibit scale formation by continuous injection or by formation squeezing.

SCALE 7577 must be injected as far back as the system will allow to give adequate contact with the water, before scaling is expected.

Predilutions with fresh water are sometimes used for ease of dispersion in the system. A dosage rate of 5 parts per million maximum is required for control of calcium carbonate scaling tendencies.

A maximum dosage rate of 10 parts per million is required for the control of calcium sulfate

As with all scale applications, SCALE 7577 should be tested in the laboratory prior to field use, on conventional scale rigs.



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SCALE 7577 - Continue

### **PRODUCT HANDLING DETAILS :**

SCALE 7577 is not considered harmful , but normal precautions must be observed, such as using eye goggles , and washing hands after using.

### **PRODUCT PACKAGING DETAILS :**

SCALE 7577 is supplied in lined 55 US gallon lined drums or plastic drums.



## SCALE 7641

### PRODUCTION SCALE INHIBITOR

#### Product description:

SCALE 7641 is an organic phosphate based scale inhibitor designed to control calcium carbonate and deposits in oil and gas production systems, water injection and produced water disposal systems.

SCALE 7641 is soluble in most aqueous systems . It is not soluble in hydrocarbons.

#### TYPICAL PHYSICAL PROPERTIES:

Appearance:	Pale yellow liquid
Specific Gravity @ 30° C:	1.15 to 1.25
Flash Point:	Greater than 150° F
Freeze Point:	Below 0° C
Viscosity @ 30° C:	Less than 50 cps.
Solubility :	Water and brine
pH:	1.5 to 2.5

#### PRODUCT APPLICATION DETAILS:

SCALE 7641 should be diluted with good quality water applied at a point of mixing which would give efficient mixing. Stainless steel or plastic equipment must be used. Continuous injection is recommended.

Dosage rates will depend upon the type of scale being deposited and the system being treated. Typical dosage rates will be in the range 1 ppm to 10 ppm of SCALE 7641 based on the water flow rate.

SCALE 7641 can be used for formation squeezes, due to its high activity, and low neutralisation value.



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SCALE 7641 Continue.

### **PRODUCT HANDLING DETAILS:**

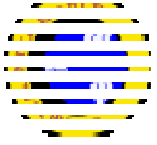
SCALE 7641 is acidic . Wear goggles and gloves. Avoid contact with eyes and skin . Wash immediately with water following any contact , If eyes have been affected wash with a dilute solution of sodium bicarbonate and the seek medical attention . Wash spillages with water .

For large spillage absorb with earth or sand dispose of this according to local regulations.  
Do not breathe vapours.

Store in well ventilated areas. Protect from frost and direct sunlight .

### **PRODUCT PACKAGNG DETAILS:**

SCALE 7641 is packaged in lined 55 USG drums or plastic drums.



## SCALE 7766

### PRODUCTION SCALE INHIBITOR

#### Product description:

SCALE 7766 is the ammonia salt of an organic phosphate designed to give good protection from calcium carbonate, calcium sulphate and barium sulphate scales at comparatively low dose rates.

#### TYPICAL PHYSICAL PROPERTIES:

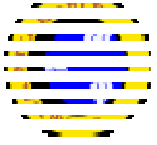
Appearance:	Amber liquid.
Specific Gravity @ 30° C:	1.10 to 1.20
Viscosity @ 30° C:	Less than 100 Cps.
Solubility:	Soluble in brines and fresh water.
Freeze point:	Below 0° C
PH:	6.5 to 7.5

#### PRODUCT APPLICATION DETAILS:

The required treating rate will vary depending on the nature of the scale and the severity of the scaling tendency but the following can be used as a guide.

When using SCALE 7766 for squeeze treatment, it should be diluted with water and applied at a rate of 2 to 10 PPM based on the volume of liquid expected during the life of the squeeze.

When using SCALE 7766 for continuous injection, it should be injected through a macaroni string down the annulus at a rate of 2 to 10 PPM depending on the severity of the problem.



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SCALE 7766 - continue

### **PRODUCT HANDLING DETAILS:**

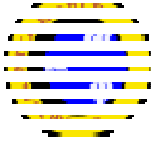
Avoid contact with eyes, skin and clothing.

In case of skin contact, remove all contaminated clothing and wash the affected area with soap and water . Launder all contaminated clothing before re-use.

In case of eye contact, immediately flush with water and seek medical aid.

### **PRODUCT PACKAGING DETAILS :**

SCALE 7766 is usually supplied in 55 US gallon lined drums or plastic drums.



## SCALE 7842

### PRODUCTION SCALE INHIBITOR

#### Product description:

SCALE 7842 is a formulated product containing the sodium salt of an amino phosphonic acid. It is particularly effective in preventing deposition of calcium carbonate. SCALE 7842 is effective in produced waters, and injection waters, which are operating with a scale forming index.

#### TYPICAL PHYSICAL PROPERTIES:

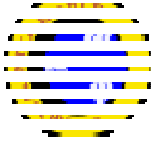
Appearance:	Amber liquid
Specific Gravity @ 30° C:	1.16 to 1.2 5
Viscosity @ 30° C:	Less than 50 Cps.
Flash Point:	Greater than 150° F
Solubility:	Water and brine.
pH:	6.5 to 7.5

#### PRODUCT APPLICATION DETAILS:

SCALE 7842 may be applied neat or diluted with soft water before use. When used as supplied, dosing pumps and lines should be suitable plastic material , otherwise stainless steel equipment may be used. Carbon steel is not suitable.

Dosage will vary from 2 ppm to 25 ppm based on the water quality and the conditions of use, such as downhole, injection of producing wells, oilfield surface equipment, or crude oil pipelines. In cases where scaling has progressed untouched for some time , a low dosage should be used to begin, increasing to maximum for a short period of time, and then stabilising at the treating rate. Avoid excess scale clean out of the system by monitoring amount of scale deposits being released.





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SCALE 7842 – Continue

### **PRODUCT HANDLING DETAILS :**

Contact with skin and eyes must be avoided. Protective clothing must be worn including goggles . In cases of contact with the skin or eyes , wash immediately with clean water for at least 15 minutes and seek medical attention. Contaminated clothing should be removed and laundered before re-use.

### **PRODUCT PACKAGING DETAILS :**

SCALE 7842 is supplied in 55 US gallon lined drums or plastic drums.



## SCALE 7844

### PRODUCTION SCALE INHIBITOR

#### Product description:

SCALE 7844 is a formulated product containing the sodium salt of an amino phosphonic acid. It is effective in preventing deposition of calcium carbonate and barium sulfate. SCALE 7844 is effective in production systems operating with a scale forming index.

Being oil soluble it is able to penetrate oily surfaces to reach the scale, remove it, and prevent re scaling. It is particularly useful in pipelines which have a low water cut, but a high scaling index water.

#### TYPICAL PHYSICAL PROPERTIES:

Appearance:	Brown liquid
Specific Gravity @ 30° C.:	0.95 to 1.02
Viscosity @ 30° C:	Less than 200 Cps.
Flash Point:	Greater than 150° F
Solubility:	Oil and trydrocarbon
pH:	6.5 to 7.5

#### PRODUCT APPLICATION DETAILS:

SCALE 7844 may be applied neat or diluted with soft water before use. When used as supplied, dosing pumps and lines should be suitable plastic material, otherwise stainless steel equipment may be used. Carbon steel is not suitable.

Dosage, for continuous treatment, will vary from 2 ppm to 25 ppm based on the water quality and the conditions of use, such as downhole or surface additions.

SCALE 7844 can be batch treated down the well, and the dosage rate is variable, depending upon requirements. A good approximation, is to batch the equivalent of 200 ppm, based upon the daily flow rate. Using the “burp” technique will considerably improve the effectiveness of SCALE 7844.



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SCALE 7844 – Continue

### **PRODUCT HANDLING DETAILS :**

Contact with skin and eyes must be avoided. Protective clothing must be worn including goggles . In cases of contact with the skin or eyes , wash immediately with clean water for at least 15 minutes and seek medical attention. Contaminated clothing should be removed and laundered before re-use.

### **PRODUCT PACKAGING DETAILS :**

SCALE 7844 is supplied in 55 US gallon lined drums or plastic drums.



## SCALE 7847

### PRODUCTION SCALE INHIBITOR

#### Product description:

SCALE 7847 is a formulated product containing a blend of sodium salt of an amino phosphonic acid, together with mixed polymers. It is particularly effective in preventing deposition of calcium carbonate and calcium sulfate, with some effectiveness on barium scales.

SCALE 7847 is effective in produced waters, and injection waters, which are operating with a scale forming index.

#### TYPICAL PHYSICAL PROPERTIES:

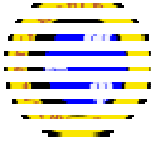
Appearance:	Colourless liquid
Specific Gravity @ 30° C:	1.15 to 1.2 5
Viscosity @ 30° C:	Less than 200 Cps.
Flash Point:	Greater than 150° F
Freeze point:	Less than 0° C
Solubility:	Water and brine.
PH:	6.5 to 7.5

#### PRODUCT APPLICATION DETAILS:

SCALE 7847 may be applied neat or diluted with soft water before use. When used as supplied, dosing pumps and lines should be suitable plastic material , otherwise stainless steel equipment may be used. Carbon steel is not suitable.

Dosage will vary from 2 ppm to 25 ppm based on the water quality and the conditions of use, such as downhole, injection of producing wells, oilfield surface equipment, or crude oil pipelines. In cases where scaling has progressed untouched for some time .

A low dosage should be used to begin, increasing to maximum for a short period of time, and then stabilising at the treating rate. Avoid excess scale clean out of the system by monitoring amount of scale deposits being released.



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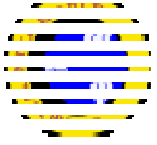
SCALE 7847 – Continue

### **PRODUCT HANDLING DETAILS :**

Contact with skin and eyes must be avoided. Protective clothing must be worn including goggles . In cases of contact with the skin or eyes , wash immediately with clean water for at least 15 minutes and seek medical attention. Contaminated clothing should be removed and laundered before re-use.

### **PRODUCT PACKAGING DETAILS :**

SCALE 7847 is supplied in 55 US gallon lined drums or plastic drums.



## SCALE CW 7849

### PRODUCTION AND COOLING WATER SCALE INHIBITOR

#### Product description:

SCALE CW 7849 is an organic polymer formulation with a mild acidic pH, and containing anti foam, which is designed to prevent scale deposition in oil- field applications , and cooling water applications.

#### TYPICAL PHYSICAL PROPERTIES:

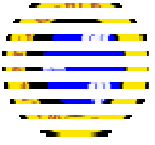
Appearance:	Colourless Hazy liquid
Specific Gravity @ 30° C:	1.10 to 1.20
Viscosity @ 30° C:	Less than 100 Cps
Flash point:	Greater than 150° F
Freezing point :	Less than 0° C
PH:	5.0 to 5.3
Solubility :	Water and Brine

#### PRODUCT APPLICATION DETAILS:

SCALE CW 7849 is an organic polymer based formulation, particularly effective on calcium sulphate scales, It can be used to inhibit scale formation by continuous injection or by formation squeezing. Applications of SCALE CW 7849 will give no ancillary problems of foaming, and will also assists in de foaming of other additives used.

SCALE CW 7850 must be injected as far back as the system will allow to give adequate contact with the water , before scaling is expected .

Pre dilutions with fresh water are sometimes used for ease of dispersion in the system. A dosage rate of 5 parts per million maximum is required for control of calcium carbonate scaling tendencies.



SCALE CW 7849 Continue.

A maximum dosage rate of 10 parts per million is required for the control of calcium sulphate, or barium deposition.

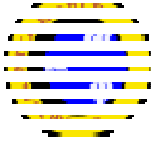
As with all scale applications, SCALE CW 7849 should be tested in the laboratory prior to cooling system, or field use, on conventional scale rigs.

**PRODUCT HANDLING DETAILS:**

SCALE CW 7849 is not considered harmful, but normal precautions must be observed, such as using eye goggles, and washing hands after using.

**PRODUCT PACKAGING DETAILS:**

SCALE CW 7849 is packaged in lined 55 US gallon drums or plastic drums.



## SCALE CW 7850

### PRODUCTION AND COOLING WATER SCALE INHIBITOR

#### Product description:

SCALE CW 7850 is a blended organic polymer, with phosphate, and has a mild acidic pH. It is effective in both oil production facilities, such as injection waters, but is predominantly used as a scale inhibitor in cooling water systems. SCALE CW 7850 is the ideal additive when a scaling problem exists in a system . but is found to have and aggressive corrosion problem.

#### TYPICAL PHYSICAL PROPERTIES:

Appearance:	Yellow liquid
Specific Gravity @ 30° C:	1.21 to 1.25
Viscosity @ 30° C:	Less than 50 Cps
Flash point:	Greater than 150° F
Freezing point :	Less than Minus 10° C
PH:	Approx 2
Solubility :	Water and Brine

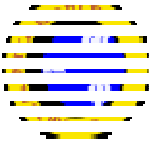
#### PRODUCT APPLICATION DETAILS:

SCALE CW 7850 is an organic polymer and phosphate based formulation, particularly effective on calcium sulphate scales, but is also used on barium problems. It can be used to inhibit scale formation by continuous injection or by formation squeezing.

SCALE CW 7850 must be injected as far back as the system will allow to give adequate contact with the water , before scaling is expected .

Pre dilutions with fresh water are sometimes used for ease of dispersion in the system. A dosage rate of 5 parts per million maximum is required for control of calcium carbonate scaling tendencies.





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SCALE CW 7850 Continue.

A maximum dosage rate of 8 parts per million is required for the control of calcium sulphate, or barium deposition.

As with all scale applications, SCALE CW 7850 should be tested in the laboratory prior to cooling system, or field use, on conventional scale rigs.

### **PRODUCT HANDLING DETAILS:**

SCALE CW 7850 is not considered harmful, but normal precautions must be observed, such as using eye goggles, and washing hands after using.

### **PRODUCT PACKAGING DETAILS:**

SCALE CW 7850 is packaged in lined 55 US gallon drums or plastic drums.



## SECTION “ C “ SNG BACTERICIDE PRODUCTION PRODUCTS

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## **CIDE 1965**

### **BACTERICIDE**

#### **PRODUCT DESCRIPTION;**

CIDE 1965 is an aldehyde based bactericide for use in water flood or waste disposal systems.

CIDE 1965 is an effective biocide for controlling the growth of sulfate reducing bacteria and other oil - field related micro- organisms in both fresh and saline waters.

#### **TYPICAL PHYSICAL PROPERTIES;**

Appearance :	Yellow liquid with aldehyde odour
SG @ 30° C. :	1.02 to 1.08
Flash point :	Greater than 150° F
Pour Point :	Less than 0° C
Solubility :	Soluble in fresh water, sea water and brine
Viscosity @ 30° C :	Less than 50 Cps
pH:	3-4

#### **PRODUCT APPLICATION DETAILS:**

Oil-field injection and waste water:

Use concentrations range from 10-200 ppm injected continuously. Batch applications range from 25-500 ppm over a period of 1-6 hours, one or more times per week.

Packer fluid hydrotesting:

Treat water or brine with 200-1000 ppm depending upon water quality.



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CIDE-1965- Continue.

### **PRODUCT HANDLING DETAILS:**

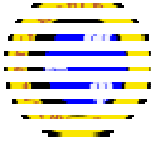
CIDE 1965 is acidic. Contact can cause severe eye and skin damage. Prolonged skin contact may cause nausea, vomiting and other effects. Ingestion can be fatal.

Prevent contact with eye . Avoid contact with skin and clothing. Do not take internally.

Wear goggles/ face shield when handling.

In cases of skin contact, wash area thoroughly with soap and water. Remove any contaminated clothing and launder before re-use.

In case of swallowing, drink large amounts of milk or water. Seek medical aid.



## CIDE 4576

### PRODUCTION BACTERICIDE

#### Product description:

CIDE 4576 is a non-aldehyde based broad-spectrum bactericide that is effective in the control of aerobic and anaerobic micro-organisms. CIDE 4576 has an advantage in that it has safe handling characteristics and is environmentally non-persistent. CIDE 4576 is suitable for water flooding and water based drilling applications.

#### TYPICAL PHYSICAL PROPERTIES:

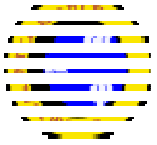
Form:	Yellow liquid.
Specific Gravity @ 30° C:	1.00 to 1.06 gm/cc
Pour Point:	0° C.
pH:	5.0 to 5.7

#### PRODUCT APPLICATION DETAILS:

CIDE 4576 dose rates will vary depending upon the severity of the problem. Each individual system should be carefully monitored for bacteria counts to in order to achieve the maximum kill at the most economic dose rate.

For water flood systems, use a slug dose of 50 to 500 PPM CIDE 4576 applied over a 2 to 6 hour period once or twice a week.

For drilling fluids applications use a slug dosage of 0.2 to 1.0 litres/m<sup>3</sup> of water based fluid. Regular applications at low concentrations will be more effective than infrequent applications at high concentrations.



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CIDE 4576 - Continue

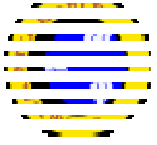
### **PRODUCT HANDLING DETAILS:**

Avoid contact with eyes, skin and clothing. Do not take internally. If ingestion occurs drink plenty of water or milk. Do not induce vomiting.

If eye or skin contact, wash with water for 15 minutes and seek medical attention. Remove contaminated clothing and wash before re-use.

### **PRODUCT PACKAGING DETAILS:**

CIDE 4576 is supplied in 55 US gallon lined drums or plastic drums.



## CIDE 5103

### PRODUCTION BACTERICIDE

#### Product description:

CIDE 5103 is an aldehyde-based bactericide for use in water flood, oilfield water, disposal systems or hydro testing.

CIDE 5103 is an effective biocide for controlling the growth of sulphate reducing bacteria and other oilfield related micro-organisms in both fresh and saline waters.

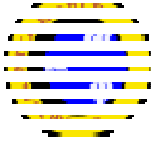
#### TYPICAL PHYSICAL PROPERTIES:

Appearance:	Colourless liquid.
Specific Gravity @ 30° C:	1.02 to 1.08 Gr/Cm <sup>3</sup>
Pour Point:	0° C
Flash Point:	Greater than 150° F.
Solubility:	Soluble in fresh water, sea water and brine
pH:	3.0 to 4.0

#### PRODUCT APPLICATION DETAILS:

For oil-field injection and disposal water, CIDE 5103 should be used at a concentration of 10 to 200 PPM injected continuously. Batch applications range from 25 to 500 PPM over a period of 1 to 6 hours, one or more times per week.

For packer fluid hydro-testing CIDE 5103 should be used at a rate of 200 to 1000 PPM depending upon water quality.



CIDE 5103 - Continue

**PRODUCT HANDLING DETAILS:**

CIDE 5103 is acidic. Contact can cause severe eye and skin damage. Prolonged skin contact may cause nausea, vomiting and other effects. Ingestion can be fatal.

Prevent contact with eyes. Avoid contact with skin and clothing. Do not take internally. Wear goggles/face shield when handling.

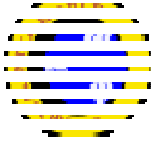
In cases of skin contact, wash area thoroughly with soap and water. Remove any contaminated clothing and launder before re-use.

In case of swallowing, drink large amounts of milk or water. Seek medical aid.

**PRODUCT PACKAGING DETAILS:**

CIDE 5103 is packaged in 55 US gallon lined drums or plastic drums.





## CIDE 5119

### PRODUCTION BACTERICIDE

#### Product description:

CIDE 5119 is a blend of aldehyde and a quaternary ammonium compound, which has been shown to exhibit synergism in both test and field conditions.

CIDE 5119 is an effective biocide for the control of aerobic and anaerobic bacteria including sulphate-reducing bacteria in water injection, produced water and disposal water systems.

CIDE 5119 is also effective in hydro testing, where the CIDE 5119 exhibits some effectiveness at corrosion control.

#### TYPICAL PHYSICAL PROPERTIES:

Appearance:	Brown Liquid.
Specific Gravity @ 30° C:	1.05 to 1.10 gm/cc
Viscosity at 30° C:	Less than 50 Cps.
Pour Point:	0° C.
Flash Point:	Greater than 150° F.
Solubility:	Water and brine soluble
pH (neat):	5.0 to 5.5

The product does not contain heavy metals or Organo chlorine compounds.

#### PRODUCT APPLICATION DETAILS:

CIDE 5119 would normally be applied as a batch treatment at dosages in the range 20 to 200 PPM for periods of 2 to 6 hours depending upon the severity of the contamination and local conditions.

CIDE 5119 should be used as supplied. Injection into a flowing system is by means of a continuous feeding arrangement using a positive displacement pump or drip feed. For static systems CIDE 5119 should be added as a slug dose and well mixed with water in the system.



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CIDE 5119 - Continue

### **PRODUCT HANDLING DETAILS:**

Avoid contact with eyes, skin and clothing. Do not take internally. In case of contact with eyes and skin, wash with clean water for at least 15 minutes then seek medical attention. Remove contaminated clothing and wash before re-use. Wear goggles and gloves.

### **PRODUCT PACKAGING DETAILS:**

CIDE 5119 is supplied in 55 US gallon lined drums or plastic drums.



## CIDE 5166

### PRODUCTION BACTERICIDE

#### Product description:

CIDE 5166 is a blended product containing a highly active bactericide of the quaternary ammonium type.

#### TYPICAL PHYSICAL PROPERTIES:

Appearance:	Yellow liquid.
Specific Gravity @ 30° C:	0.96 to 1.00
Viscosity @ 30° C:	Less than 100 Cps.
Pour Point:	0° C.
Flash Point:	Greater than 150° F.
Solubility:	Soluble in fresh water and brines
PH:	7.8 to 8.5

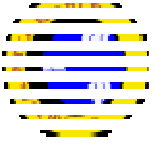
#### PRODUCT APPLICATION DETAILS:

CIDE 5166 is a rapid acting and broad-spectrum biocide, which is characterised by its ability to kill a wide range of bacteria. CIDE 5166 is readily miscible in hot and cold water. CIDE 5166 is particularly suited to the control of bacteria and algae in most water systems. It has no deleterious effect at normal dosage levels on the metals of construction commonly used in water systems.

Because of its strong action, CIDE 5166 gives good results at low dosage in controlling the build up of bacteria and algae. CIDE 5166 is not recommended for the treatment of domestic or potable water.

CIDE 5166 may be added on a slug basis or continuously. For systems, which are heavily infected with bacteria, intermittent treatment is most economical. CIDE 5166 should be made up to a convenient dilution with water and injected into the water system.

In heavily infected systems it is preferable to remove as much organic growth as possible by mechanical means before commencing treatment.



CIDE 5166 - Continue

Arrangements should be made to flush out the system after the first few applications of treatment. This is to prevent losses of the bactericide to the surface-active effect upon the solids.

Pumps and lines used for injecting CIDE 5166 should be plastic or stainless steel.

The recommended dosage rates for slug injection is 100 to 400 PPM based upon total fluid flow rate applied over a period of 5 minutes per day.

The recommended dosage for continuous application is 10 to 40 PPM maintained in the system by continuous application at a point where there is good mixing.

At dosages above 100 PPM some transient foaming may occur especially when treating a fouled system. This effect soon disappears, but in extreme cases, immediate control of foaming can be achieved by adding a few PPM of a suitable defoamer.

#### **PRODUCT HANDLING DETAILS:**

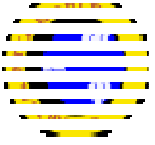
CIDE 5166 has no significant handling or toxic hazards at the dosage levels recommended. However the material as supplied is highly surface active and must not be taken internally. Avoid contact with skin and clothing wear goggles/face shield when handling.

In cases of skin contact, wash area thoroughly with soap and water. Remove any contaminated clothing and launder before re-use.

In case of swallowing, drink large amounts of milk or water. Seek medical aid.

#### **PRODUCT PACKAGING DETAILS:**

CIDE 5166 is supplied in 55 US gallon lined drums, or plastic drums.



## CIDE 5225

### PRODUCTUON BACTERICIDE

#### Product description:

CIDE 5225 is a rapid acting dispersant and biocide for the control of bacteria growth in production injection water. It also has ability to assist in the corrosion control of the injection pipework and facilities.

CIDE 5225 has good penetrating properties and will disperse sludge. CIDE 5225 contains a quaternary ammonium compound which has been shown to be generally effective against sulphate reducing bacteria.

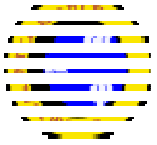
#### TYPICAL PHYSICAL PROPERTIES:

Appearance:	Pale Yellow liquid.
Specific Gravity at 30° C:	0.97 to 1.1
PH:	5 to 6
Flash Point:	Greater than 150° F
Viscosity at 30° C:	Less than 50 CPS

#### PRODUCT APPLICATION DETAILS:

CIDE 5225 is effective in brines up to 25,000 mg per litre as sodium chloride. It can be injection on continuous basis, at 15 to 30 ppm, but I is recommended to be injected on a slug basis, as this has been found to be more consistently effective.

The dosage for a slug treatment is to inject between 50 to 25 ppm based upon total daily fluids, and this injection to be added over a period of 6 hours.



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CIDE 5225 CON.

### **PRODUCT HANDLING DETAILS :**

Protect eyes from splashes of neat product. In the case of eye contact, hold the eyelids open and flush the eyes for at least 15 minutes with clean fresh water.

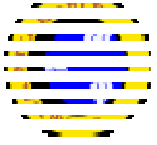
In the case of skin contact, remove all contaminated clothing and wash the affected area with soap and water.

All contaminated clothing should be laundered before reuse. Do not take internally.

CIDE 5225 has not been shown to be a skin irritant or sensitiser.

### **PRODUCT PACAGING DETAIS :**

CIDE 5225 is packaged in 55 US gallon drums.



## CIDE 5611

### PRODUCTION BACTERICIDE

#### Product description:

CIDE 5611 is an extremely effective cationic bactericide based on DI-acetate salts of coconut based amines.

CIDE 5611 works as a bactericide by rupturing cell membranes thereby releasing vital bacterial metabolites, required by bacteria for life. In addition the detergent nature of CIDE 5611 provides it with the ability to dissolve lipid films that protect bacteria thus reducing fouling and plugging often resulting from bacterial action.

As with most cationic additives, the efficiency of CIDE 5611 is reduced with increasing sulphate content of water and the presence of solids and hydrocarbons.

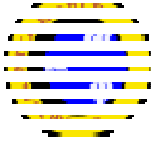
#### TYPICAL PHYSICAL PROPERTIES:

Appearance:	Yellow Liquid.
Specific Gravity @ 30° C:	0.92 to 1.00 gm/cc
Viscosity @ 30° C:	Less than 200 Cps.
Pour Point:	0° C.
Flash Point:	Less than 100° F.
Solubility:	Soluble in brines and fresh waters.
pH:	5 to 6

#### PRODUCT APPLICATION DETAILS:

CIDE 5611 is an effective biocide for the control of aerobic and anaerobic micro-organisms, including sulphate-reducing bacteria. It is suitable for use in water flood systems, water based drilling fluids.

Continuous addition of 25 to 50 PPM of CIDE 5611 is normally required. However, confirmation of dosage from API kill tests is desirable.



CIDE 5611 – Continue

Batch treatment using 100 to 250 PPM of CIDE 5611 at intermittent times of four to eight hours weekly, and alternating treatment with a secondary biocide such as CIDE 5611 is the most economical method of treatment.

In both cases treatment should be upstream of any chloride treatment system, filters and deaerators.

CIDE 5611 may have a tendency to foam in certain situations if this occurs a suitable defoamer should be used.

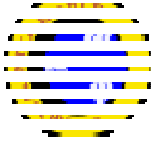
**PRODUCT HANDLING DETAILS:**

Avoid contact with eyes, skin and clothing. Do not take internally. If ingestion occurs drink plenty of water or milk. In case of contact with eyes or skin, wash with water for 15 minutes and seek medical attention. Remove contaminated clothing and wash before re-use.

**PRODUCT PACKAGING DETAILS:**

CIDE 5611 is supplied in 55 US gallon lined drums or plastic drums.





## **CIDE 5691**

### **PRODUCTION BACTERICIDE**

#### **Product description:**

CIDE 5691 is an aldehyde-based bactericide for use in water flood or waste disposal systems.

CIDE 5691 is an effective biocide for controlling the growth of sulphate reducing bacteria and other oil field related micro-organisms in both fresh and saline waters.

#### **TYPICAL PHYSICAL PROPERTIES:**

Appearance:	Colourless liquid.
Specific Gravity @ 30° C:	1.04 to 1.08 Gr/Cm <sup>3</sup>
Pour Point:	0° C.
Flash Point:	Greater than 150° F.
Solubility:	Soluble in brines and fresh waters.
pH:	3.0 to 4.0

#### **PRODUCT APPLICATION DETAILS:**

For oil-field injection and disposal water, CIDE 5691 should be used at concentration from 10 to 200 PPM, injected continuously. Batch applications range from 25 to 500 PPM over a period of 1 to 6 hours, one or more times per week.

For packer fluid hydrotesting, CIDE 5691 should be used at concentrations from 200 to 1000 PPM depending upon water quality.



CIDE 5691 - Continue

**PRODUCT HANDLING DETAILS:**

CIDE 5691 is acidic. Contact can cause severe eye and skin damage. Prolonged skin contact may cause nausea, vomiting and other effects. Ingestion can be fatal.

Prevent contact with eyes. Avoid contact with skin and clothing. Do not take internally. Wear goggles/face shield when handling.

In cases of skin contact, wash area thoroughly with soap and water. Remove any contaminated clothing and launder before re-use. In case of swallowing, drink large amounts of milk or water. Seek medical aid.

**PRODUCT PACKAGING DETAILS:**

CIDE 5691 is supplied in 55 US gallon lined drums or plastic drums.



## CIDE 5822

### PRODUCTION BACTERICIDE

#### Product description:

CIDE 5822 is an extremely effective cationic biocide based upon a blend of quaternary products.

The detergent and biocidal nature of CIDE 5822 provides it with the ability to dissolve lipid films that protect bacteria thus reducing fouling and plugging often resulting from bacterial action.

As with most cationic the efficiency of CIDE 5822 is reduced in the presence of solids and hydrocarbons.

#### TYPICAL PHYSICAL PROPERTIES:

Appearance:	Amber Liquid.
Specific Gravity @ 30° C:	0.92 to 0.96 gm/cc
Viscosity @ 30° C:	Below 100 Cps.
Pour Point:	0° C.
Flash Point:	Greater than 150° F.
Solubility:	Soluble in brines and fresh waters.
pH:	6.5 to 7.5

#### PRODUCT APPLICATION DETAILS:

CIDE 5822 is an effective biocide for the control of aerobic and anaerobic micro-organisms, including sulphate-reducing bacteria. It is suitable for use in oilfield water flood systems, water based drilling fluids and stimulation.

Dosage for oilfield use, should be an alternate of continuous injection and slug dosing actual rate should be 10 to 20 PPM based upon volume of water and the slug dose is 100 to 300 PPM at intervals of approx. 2 weeks.



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CIDE 5822 – Continue

CIDE 5822 is used to control bacterial growth in water based drilling fluids and a normal addition rate of 500 PPM is used.

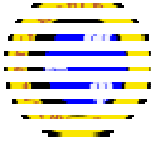
If batch treatment is being used alone 100 to 250 PPM of CIDE 5822 at intermittent times of 4 to 8 hours should be used. Treatment should be upstream of any chloride treatment system. It may have a tendency to foam in certain situations, in this case a suitable defoamer should be used.

### **PRODUCT HANDLING DETAILS:**

Avoid contact with eyes, skin and clothing. Do not take internally. In case of contact with eyes and skin, wash with clean water for at least 15 minutes then seek medical attention. Remove contaminated clothing and wash before re-use. Wear goggles and gloves.

### **PRODUCT PACKAGING DETAILS:**

CIDE 5822 is supplied in 55 US gallon lined drums or plastic drums.



## CIDE 5900

### PRODUCTION BACTERICIDE

#### Product description:

CIDE 5900 is an extremely effective cationic bactericide based upon a blend of quaternary products.

The detergent and biocidal nature of CIDE 5900 provides it with the ability to dissolve lipid films that protect bacteria thus reducing fouling and plugging often resulting from bacterial action.

As with most cationic the efficiency of CIDE 5900 is reduced with increasing sulphate content of water and the presence of solids and hydrocarbons.

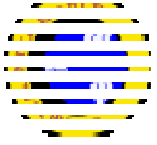
#### TYPICAL PHYSICAL PROPERTIES:

Appearance:	Amber Liquid.
Specific Gravity @ 30° C:	0.91 to 1.00 gm/cc
Viscosity @ 30° C:	Less than 100 Cps.
Pour Point:	Less than 0° C.
Flash Point:	Greater than 150° F.
Solubility:	Water soluble
pH:	5.0 to 6.0

#### PRODUCT APPLICATION DETAILS:

CIDE 5900 is an effective biocide for the control of aerobic and anaerobic micro-organisms, including sulphate reducing bacteria. It is suitable for use in oilfield water flood systems, and stimulation.

For oilfield use, a mixture of continuous injection and slug dosing is recommended. Slug dosing is used at 100 to 300 PPM at intervals of approximately 2 weeks.



CIDE 5900 – Continue

CIDE 5900 should be used in fresh and low salinity water at dosages between 25 and 250 PPM depending upon the severity of problem and application type, however an API kill test is necessary.

In both cases treatment should be upstream of any chloride treatment system, filters and deaerators.

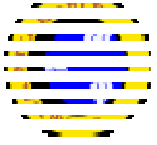
CIDE 5900 may have a tendency to foam in certain situations if this occurs a suitable defoamer should be used.

**PRODUCT HANDLING DETAILS:**

Avoid contact with eyes, skin and clothing. Do not take internally. If ingestion occurs drink plenty of water or milk. In case of contact with eyes or skin, wash with water for 15 minutes and seek medical attention. Remove contaminated clothing and wash before re-use.

**PRODUCT PACKAGING DETAILS:**

CIDE 5900 is supplied in 55 gallon lined drums or plastic drums.



## CIDE 7846

### PRODUCTION BACTERICIDE

#### Product description:

CIDE 7846 is a water-soluble blend of aldehyde and quaternary ammonium compound, highly effective in the control of a broad spectrum of aerobic and anaerobic bacteria in oilfield water injection systems.

CIDE 7846 can be used in seawater, brine, fresh or produced waters and will combat slime forming and sulphate reducing bacteria, algae, yeast and fungal growths.

#### TYPICAL PHYSICAL PROPERTIES:

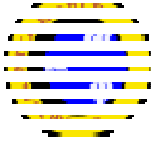
Appearance:	Colourless liquid.
Specific Gravity @ 30° C:	1.00 to 1.06 gm/cc
Viscosity @ 30° C:	Less than 50 Cps.
Pour Point:	0° C.
Flash Point:	Above 150° F.
pH:	2.5 to 3.0

#### PRODUCT APPLICATION DETAILS:

For water injection CIDE 7846 may be used alone or in combination with other compatible organic or inorganic biocides. The primary biocide, chlorine is normally continuously injected as close as possible to the water source.

Providing a free chlorine level of 0.2 PPM is maintained in the system CIDE 7846 should be injected on the basis of a 30 to 150 PPM slug applied for 2 to 4 hours every 1 to 2 weeks, and will prevent the growth of natural resistance.

CIDE 7846 will be applied after the deoxygenating system. This will avoid excessive foaming of the deoxygenating tower.



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CIDE 7846 - Continue

### **PRODUCT HANDLING DETAILS:**

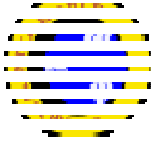
CIDE 7846 is acidic and can cause severe eye and skin damage. Avoid contact with eyes, skin and clothing. Do not take internally. If ingestion occurs drink plenty of water or milk. Do not induce vomiting.

If eye or skin contact, wash with water for 15 minutes and seek medical attention. Remove contaminated clothing and wash before re-use.

### **PRODUCT PACKAGING AND HANDLING DETAILS:**

CIDE 7846 is supplied in 55 US gall lined drums or plastic drums.





## SECTION “ D “ SNG CORROSION INHIBITOR PRODUCTION PRODUCTS

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## COR 370

### PRODUCTION CORROSION INHIBITOR

#### Product description:

COR 370 is a water-soluble formulation of amine salts in a system which is soluble in brines as well as fresh waters. It is effective in protecting against corrosion due to carbon dioxide, hydrogen sulphide and organic acids by its action of film formation on metal surfaces.

#### TYPICAL PHYSICAL PROPERTIES:

Appearance:	Amber Liquid.
Specific Gravity @ 30° C:	0.98 to 1.03 Gr/Cm <sup>3</sup>
Viscosity @ 30° C:	Less than 100 Cps.
Pour Point:	Less than 0° C.
Flash Point:	Less than 130° F.
Solubility:	Soluble in brines and fresh waters.
pH:	6.5 to 7.5

#### PRODUCT APPLICATION DETAILS:

COR 370 is suitable for use in systems with or without hydrocarbons being present, for example, wet production systems, water injection systems and wash waters used in desalting units. COR 370 is compatible with the typical treatment chemicals used in water injection and desalting systems.

Treatment rates will vary according to the severity of the problem and a continuous dosage in the range of 5 PPM to 50 PPM is normally effective.

Batch treatment may be recommended for some applications.



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COR 370 - Continue

### **PRODUCT HANDLING DETAILS:**

Avoid contact with the eyes and skin. Remove contaminated clothing immediately and wash before re-use. Wear gloves and goggles.

If splashes to the eyes are experienced wash with clean water for 15 minutes and consult a doctor. Splashes to the skin should be treated by washing with soap and water.

### **PRODUCT PACKAGING DETAILS:**

COR 370 are supplied in 55 US gallon lined drums, or plastic drums.



## COR 376

### PRODUCTION CORROSION INHIBITOR

#### Product description:

COR 376 contains amine salts in a solvent system, which is soluble in brines as well as fresh waters. It is effective in protecting against corrosion due to carbon dioxide, hydrogen sulphide and organic acids by its action of film formation on metal surfaces.

#### TYPICAL PHYSICAL PROPERTIES:

Appearance:	Amber Liquid.
Specific Gravity @ 30° C.:	0.98 to 1.01 Gr/Cm <sup>3</sup>
Viscosity @ 30° C:	Less than 100 Cps.
Pour Point:	Less than 0° C.
Flash Point:	Less than 130° F.
Solubility:	Soluble in heavy brines and waters.
pH:	6.5 to 7.5

#### PRODUCT APPLICATION DETAILS:

COR 376 is suitable for use in systems with or without hydrocarbons being present, for example, wet production systems, water injection systems and wash waters used in desalting units. COR 376 is compatible with the typical treatment chemicals used in water injection and desalting systems.

Treatment rates will vary according to the severity of the problem and a continuous dosage in the range of 5 PPM to 50 PPM is normally effective. Batch treatment may be recommended for some applications.



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COR 376 – Continue

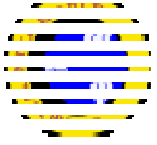
### **PRODUCT HANDLING DETAILS:**

Avoid contact with the eyes and skin. Remove contaminated clothing immediately and wash before re-use. Wear gloves and goggles.

If splashes to the eyes are experienced wash with clean water for 15 minutes and consult a doctor. Splashes to the skin should be treated by washing with soap and water.

### **PRODUCT PACKAGING DETAILS:**

COR 376 is supplied in 55 US gallon lined drums or plastic drums.



## COR 425

### PRODUCTION CORROSION INHIBITOR

#### Product description:

COR 425 is a water soluble multi component corrosion inhibitor in liquid form designed for use in oil production systems including water floods and brine disposal. It will preferentially adsorb onto all metal surfaces providing a protective film to prevent corrosion under both sweet and sour conditions.

COR 425 is soluble in brines with no noticeable salting out.

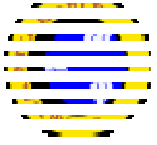
#### TYPICAL PHYSICAL PROPERTIES:

Appearance:	Amber liquid
Specific Gravity @ 30° C:	0.96 to 1.02
Viscosity @ 30° C:	Less than 50 Cps.
Pour Point:	Less than 0° C.
Flash Point:	Greater than 150° F.
pH:	8.0 to 8.5

#### PRODUCT APPLICATION DETAILS:

COR 425 should be injected at a point of good mixing using a positive displacement pump. It may be used as supplied in large systems but dilution with system water is recommended for small injection rates. Continuous dosing is advised. At the start of treatment a slug dose is recommended to establish a uniform film on metal surfaces as quickly as possible.

Continuous addition at the rate of 10 to 20 PPM v/v is normally sufficient. Slug dosages should be 50 to 100 PPM v/v for a minimum of 4 hours.



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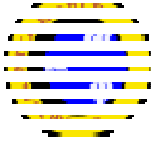
COR 425 - Continue

### **PRODUCT HANDLING DETAILS:**

Avoid contact with skin and eyes. Do not breathe vapours. In case of contact wash affected areas for at least 10 minutes with clean water. Seek medical help if irritation is experienced. Gloves and goggles must be worn. Do not take internally.

### **PRODUCT PACKAGING DETAILS:**

COR 425 is packaged in 55 US gallon lined drums or plastic drums.



## COR 430

### PRODUCTION CORROSION INHIBITOR

#### Product description:

COR 430 is a water soluble product containing amine salts, fatty acids and quaternary products in a water/alcohol carrier. Soluble in brines as well as fresh waters. It is effective in protecting against corrosion due to CO<sub>2</sub>, H<sub>2</sub>S and organic acids by its action of film formation on metal surfaces.

#### TYPICAL PHYSICAL PROPERTIES:

Appearance:	Amber Liquid.
Specific Gravity @ 30° C:	0.97 to 1.05 Gr/Cm <sup>3</sup>
Viscosity @ 30° C:	Less than 500 Cps.
Pour Point:	0° C.
Flash Point:	Greater than 150° F.
Solubility:	Soluble in heavy brines and fresh waters.
pH:	9.0 to 10.0

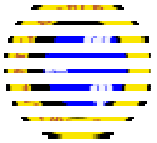
#### PRODUCT APPLICATION DETAILS:

COR 430 are suitable for use in systems with or without hydrocarbons being present, such as, production systems, and water injection systems. COR 430 is compatible with the typical treatment chemicals used in water injection and desalting systems, such as Demulsifiers, oxygen scavengers and defoamers.

Treatment rates will vary according to the severity of the problem and a continuous dosage in the range of 5 PPM to 50 PPM is normally effective.

Batch treatment may be recommended for some applications.





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COR 430 – Continue

### **PRODUCT HANDLING DETAILS:**

Avoid contact with the eyes and skin. Remove contaminated clothing immediately and wash before re-use. Wear gloves and goggles.

If splashes to the eyes are experienced wash with clean water for 15 minutes and consult a doctor. Splashes to the skin should be treated by washing with soap and water.

### **PRODUCT PACKAGING DETAILS:**

COR 430 is supplied in 55 US gallon lined drums or plastic drums.



## COR 484

### PRODUCTION MULTI FUNCTIONAL ADDITIVE

#### Product description:

COR 484 is a blended water-soluble formulation designed for corrosion prevention in water based drilling fluids. It has biocide properties and can be used in packer fluids and completion fluids.

COR 484 also contain an oxygen scavenger to improve the efficiency of film formation and provide better protection.

#### TYPICAL PHYSICAL PROPERTIES:

Appearance:	Brown liquid.
Specific Gravity @ 30° C:	1.00 to 1.10
Viscosity @ 30° C:	Less than 50 Cps.
Pour Point:	0° C.
Flash Point (ASTM D93):	Less than 130° F.
pH:	9.0 to 10.0

#### PRODUCT APPLICATION DETAILS:

COR 484 should be applied at a point of good mixing. In drilling this could be at the mud pit. For packer and completion fluids, COR 484 should be added as the fluid is being prepared and before injection into the annulus.

COR 484 should be used at the rate of 0.5% based upon total fluids when used for packer or completion fluids.



COR 484 - Continue

**PRODUCT HANDLING DETAILS:**

Protective clothing should be worn. This includes gloves, goggles and overalls.

Do not inhale vapours. Store in ventilated area. Contaminated clothing should be removed immediately and washed before reuse. Splashes to the skin should be immediately treated by washing with soap and water.

If eyes are affected wash immediately with clean water for at least 15 minutes and then seek medical attention.

Spillages should be absorbed with sand or earth and disposed of in accordance with local regulations.

**PRODUCT PACKAGING DETAILS:**

COR 484 is supplied in 55 US gallon drums lined or plastic drums.



## MULTI 485

### PRODUCTION MULTI FUNCTIONAL ADDITIVE

#### Product description:

MULTI 485 is a water soluble corrosion and scale inhibitor as well as oxygen scavenger, and biocide. It is a blend of Organo phosphates, alkyl quaternary compounds and sulphite.

MULTI 485 is designed for treating oil-field water injection, brine disposal systems, completion fluids or hydrostatic testing. It is effective in the presence of hydrogen sulphide, carbon dioxide and oxygen.

MULTI 485 are suitable for use in packer fluids and it is effective in removing iron sulphide deposits.

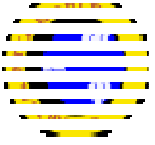
The use of MULTI 485 will prevent deposition of calcium carbonate and sulphate, and also barium sulphate.

#### TYPICAL PHYSICAL PROPERTIES:

Appearance:	Yellow liquid.
Specific Gravity @ 30° C:	1.10 to 1.20 Gr/Cm <sup>3</sup>
Viscosity @ 30° C.:	Less than 50 Cps.
Pour Point:	Below 0° C.
Flash Point:	Greater than 150° F.
Solubility:	Water and brines
pH:	4.5 to 5.2

#### PRODUCT APPLICATION DETAILS:

MULTI 485 may be fed direct from the drum, as supplied or diluted with water (deoxygenated). Continuous application is normally advised using a positive displacement pump. A dosage of 15 to 20 PPM is advised when the oxygen content is below 1 PPM of oxygen. MULTI 485 will remove oxygen at the rate of 20 PPM for every 1 PPM oxygen.



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MULTI 485 - Continue

When used in packer fluids, the dosage will be 200 to 400 PPM depending upon well depth, type of fluid and likely problems.

Dosing equipment should be fabricated in stainless steel or plastic.

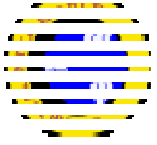
### **PRODUCT HANDLING DETAILS:**

Avoid contact with the skin and eyes. Wear goggles and gloves. Do not take internally. Wash with water those areas of the skin, which have been in contact with MULTI 485.

Contaminated clothing should be removed and washed before re-use. If eyes are affected wash with clean water and consult a doctor.

### **PRODUCT PACKAGING DETAILS:**

CMULTI 485 is supplied in 55 US gallon-lined drums or plastic drums.



## MULTI 486

### PRODUCTION MULTI FUNCTIONAL ADDITIVE

#### Product description:

MULTI 486 is a water soluble corrosion and scale inhibitor as well as oxygen scavenger. It is a blend of ethoxylated amines, organo phosphates and sulphite.

MULTI 486 is designed for treating oil-field water injection, brine disposal systems, completion fluids or hydrostatic testing.

MULTI 486 is suitable for use in packer fluids and it is effective in removing Iron Sulphide deposits. The use of MULTI 486 will prevent deposition of calcium carbonate and sulphate, and also barium sulphate.

#### TYPICAL PHYSICAL PROPERTIES:

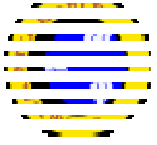
Appearance:	Amber liquid.
Specific Gravity @ 30° C.:	1.19 to 1.22
Viscosity @ 30° C:	Less than 10 to 20 cps.
Pour Point:	Below 0° C.
Flash Point:	Greater than 150° F.
Solubility:	Water and brines
pH:	5.5 to 5.8

#### PRODUCT APPLICATION DETAILS:

MULTI 486 may be fed direct from the drum, as supplied or diluted with (deoxygenated) water. Continuous application is normally advised using a positive displacement pump. A dosage of 15 to 20 PPM is advised when the oxygen content is below 1 PPM oxygen. MULTI 486 will remove oxygen at the rate of 20 PPM for every 1-PPM oxygen.

When used in packer fluids, MULTI 486 the dosage will be 200 to 400 PPM depending upon well depth, type of fluid and likely problems, but the treatment may need to be supplemented with a bactericide if a bacteria problem is expected.

Dosing equipment should be fabricated in stainless steel or plastic.



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MULTI 486 - Continue

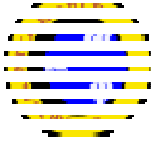
### **PRODUCT HANDLING DETAILS:**

Avoid contact with the skin and eyes. Wear goggles and gloves. Do not take internally. Wash with water those areas of the skin which have been in contact with MULTI 486.

Contaminated clothing should be removed and washed before re-use. If eyes are affected wash with clean water and consult a doctor.

### **PRODUCT PACKAGING DETAILS:**

MULTI 486 is supplied in 55 US gallon-lined drums or plastic drums.



## MULTI 487

### PRODUCTION MULTI FUNCTIONAL ADDITIVE

#### Product description:

MULTI 487 is a water soluble corrosion inhibitor and bactericide, as well as oxygen scavenger.

It is a blend of organic phosphates low bactericide and sulphite.

MULTI 487 is designed for treating hydrostatic testing fluids, with particular emphasis on preventing bacteria growth and corrosion, while avoiding the use of any environmentally harmful ingredients.

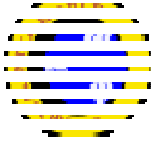
#### TYPICAL PHYSICAL PROPERTIES:

Appearance:	Yellow liquid
SG @ 30° C:	1.10 to 1.2
Viscosity at 30° C:	Less than 50 CPS
Flash Point:	Greater than 150° F
Pour Point:	Below 0° C
Solubility:	Water and brines
pH:	5 to 6

#### PRODUCT APPLICATION DETAILS:

MULTI 487 may be fed directly from the drum, as supplied or diluted with deoxygenated water. Continuous application is normally advised using a positive displacement pump. A dosage of 15 to 20 PPM is advised when the oxygen content is below 1-PPM oxygen. MULTI 487 will remove oxygen at the rate of 20 PPM for every 1-PPM of oxygen. If the potential for bacteria growth is high, then this figure may increase, above the oxygen removal dosage.





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MULTI 487 – Continue

### **PRODUCT HANDLING DETAILS:**

Avoid contact with the skin and eyes. Wear goggles and gloves. Do not take internally. Wash with water those areas of the skin, which have been in contact with MULTI 487.

Contaminated clothing should be removed and washed before re-use. If eyes are affected wash with clean water and consult a doctor.

### **PRODUCT PACKAGING DETAILS:**

MULTI 487 is supplied in 55 US gallon-lined drums or plastic drums.



## COR 491

### PRODUCTION CORROSION INHIBITOR

#### Product description:

COR 491 is a water soluble synergistic blend of amine salts and quaternary ammonium compounds formulated for corrosion inhibition in oilfield water systems. Protection is provided against corrosion caused by hydrogen sulphide, carbon dioxide and organic or inorganic acids.

COR 491 contains surfactants which lower the surface tension of brines and fresh water and provide clean surfaces for the film forming corrosion inhibitor.

COR 491 also contains a biocide, giving added protection against the formation and growth of micro-organisms.

#### TYPICAL PHYSICAL PROPERTIES:

Appearance:	Amber liquid.
Specific Gravity @ 30° C:	0.97 to 1.08 Gr/Cm <sup>3</sup>
Viscosity @ 30° C:	Less than 100 cps
Pour Point:	Less than 0° C.
Flash Point:	Less than 130° F.
pH:	6.5 to 7.5

#### PRODUCT APPLICATION DETAILS:

For continuous treatment, inject COR 491 to maintain a concentration in the range of 6 to 30 PPM. Injection at 40 to 50 PPM for the first week will provide faster initial filming. Treatment can then be reduced to an amount sufficient to maintain protection.

In dirty system, initial injection should be at a low rate and gradually increased to the recommended treating range. This will prevent possible plugging problems due to the fouling residue being removed too rapidly by the detergent properties of COR 491.



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COR 491 - Continue

### **PRODUCT HANDLING DETAILS:**

Avoid contact with the eyes, skin and clothing. In case of contact with eyes, flush immediately with plenty of water for 15 minutes and seek medical aid. In case of contact with the skin, wash the area thoroughly with soap and water. Contaminated clothing should be removed immediately and washed prior to re-use.

### **PRODUCT PACKAGING DETAILS:**

COR 491 is supplied in 55 US Gallon lined drums or plastic drums.



## COR 561

### PRODUCTION CORROSION INHIBITOR

#### Product description:

COR 561 is a water soluble filming amine corrosion inhibitor formulated for use on fresh water, seawater and heavy brines. COR 561 is designed to give good protection in the presence of carbon dioxide, hydrogen sulphide and organic acids. COR 561 also contain a surfactant to reduce fouling and promote an improved amine film.

#### TYPICAL PHYSICAL PROPERTIES:

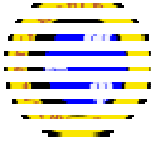
Appearance:	Amber liquid.
Specific Gravity @ 30° C:	1.0 to 1.04 gm/cc
Viscosity @ 30° C:	Less than 500 cps.
Pour Point:	0° C.
Flash Point:	Greater than 150° F.
Solubility:	Soluble in water and brines dispersible in crude

#### PRODUCT APPLICATION DETAILS:

COR 561 is recommended for use in Water injection systems, Water supply wells, Oil production wells with a high water cut, Oil flow lines with a high water cut, Water disposal systems such as dehydrators and desalter.

If COR 561 is to be applied to a clean system, a high initial dose rate of 20 to 50 PPM should be used to build a rapid film.

If COR 561 is to be applied to a system that contains heavy fouling, then the dose should be built up gradually from 5 to 10 PPM to 10 to 30 PPM. This will lessen the risk of blockages due to sudden removal of the fouling materials.



COR 561 – Continue

COR 561 is also suitable for injection into the wet gas lines of compressor units where it will prevent internal corrosion. Dose rate will depend on the severity of the problem but will usually be in the order of 1 quart per million cubic feet of gas.

**PRODUCT HANDLING DETAILS:**

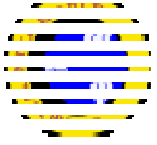
Avoid contact with the eyes and skin. Remove contaminated clothing immediately and wash before re-use. Wear gloves and goggles.

If splashes to the eyes are experienced wash with clean water for 15 minutes and consult a doctor. Splashes to the skin should be treated by washing with soap and water.

If ingestion occurs drink large amounts of water or milk and seek medical aid, do not induce vomiting.

**PRODUCT PACKAGING DETAILS:**

COR 561 is supplied in 55 USG lined drums or plastic drums.



## **COR 601**

### **PRODUCTION CORROSION INHIBITOR**

#### **PRODUCT INFORMATION:**

COR 601 is an oil soluble blended formulation of amines, fatty acids and surfactants in a hydrocarbon solvent.

#### **TYPICAL PHYSICAL PROPERTIES:**

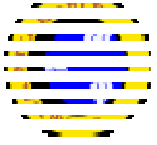
Appearance:	Amber liquid.
Specific Gravity @ 30° C:	0.88 to 0.95 Gr/Cm <sup>3</sup>
Viscosity @ 30° C:	Less than 250 cps.
Pour Point:	0° C.
Flash Point:	Greater than 110° F.
Solubility:	Diesel/Aromatic solvent
PH:	7.0 to 8.0

#### **PRODUCT APPLICATION DETAILS:**

COR 601 is an oil soluble corrosion inhibitor that is formulated to give overall effectiveness in all oil related corrosion problems in the oil industry.

The most common applications are crude oil wells, crude oil flowline and pipeline systems, gas wells, gas flowline and pipelines. The method of application of COR 601 is not limited and covers squeeze treatments, batch treatments and continuous injection. It has a high degree of solubility in all hydrocarbons and gas condensates.

This product has a low tendency to emulsify produced fluids and if required the formulation can be enhanced to reduce its emulsification tendencies further. This is particularly important on gas/condensates production facilities and offshore oil installations that have dehydration facilities on the platforms.



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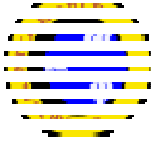
COR 601 - Continue

### **PRODUCT HANDLING DETAILS:**

Will be harmful if swallowed. Causes skin and eye irritation. DO NOT allow contact with eyes, wear safety glasses when handling. If contact with eyes occurs wash with water for 15 minutes and get medical aid. Avoid contact with skin or clothing, if contact occurs wash with water or remove any contaminated clothing.

### **PRODUCT PACKAGING DETAILS:**

COR 601 is packaged in 55 U.S. gallon drums.



## COR 678

### PRODUCTION CORROSION INHIBITOR

#### PRODUCT INFORMATION:

COR 678 is a water soluble blend of film forming amines and quaternary ammonium salts, designed to give good protection in the presence of hydrogen sulphide and carbon dioxide. COR 678 is suitable for use in handling systems where the crude has a high water cut. COR 678 can also be used in disposal waters and brines.

#### TYPICAL PHYSICAL PROPERTIES:

Appearance:	Amber liquid.
Specific Gravity @ 30° C:	1.00 to 1.06 gm/cc
Viscosity @ 30° C:	Less than 100 cps
Pour Point:	0° C.
Flash Point:	Above 150° F.

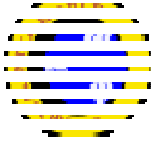
#### PRODUCT APPLICATION DETAILS:

COR 678 should be injected, via a chemical metering pump at strategic points on the collecting lines. COR 678 should also be injected at the manifold of the treating station and will give good protection to separating equipment. Dose rates will vary depending on the severity of the problem, but will usually be in the range of 5 to 20 PPM based on the total fluids.

If COR 678 is being used in packer fluids then the dose levels will depend on the severity of the corrosion problem, the temperature and the level of solids in the system and will normally be in the range of 500 to 1500 PPM based on the total volume of fluid.

Disposal water system dose rates will usually be in the range of 5 to 20 PPM depending on the severity of the problem. COR 678 should be injected via a metering pump at a suitable point to give protection to handling equipment.





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COR 678 Continue

### **PRODUCT HANDLING DETAILS:**

Do not allow contact with eyes, wear safety glasses when handling. If contact with eyes occurs wash with water for 15 minutes and get medical aid. Avoid contact with skin or clothing, if contact occurs wash with water or remove any contaminated clothing.

If ingested drink large amounts of water or milk seeks medical aid. Do not induce vomiting.

### **PRODUCT PACKAGING DETAILS:**

COR 678 are packaged in 55 U.S. gallon lined drums or plastic drums.



## COR 712 D

### PRODUCTION CORROSION INHIBITOR

#### Product description:

COR 712 D is water dispersible nitrogen based inhibitor which also contains a volatile amine giving three phase protection.

COR 712 D is formulated for use in oil and gas handling systems containing large volumes of liquid.

COR 712 D is effective in combating corrosion in gathering systems, transmission lines and storage systems for hydrogen sulphide, carbon dioxide and organic acids.

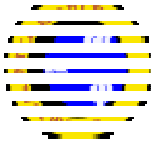
COR 712 D is soluble in crude, condensate and methanol and can be injected continuously by means of a mechanical pump.

#### TYPICAL PHYSICAL PROPERTIES:

Appearance:	Yellow liquid
Viscosity @ 30° C:	Less than 100 cps
Specific Gravity @ 30° C:	0.90 to 0.95
Flash Point:	Greater than 120° F
Pour Point:	Less then -5° C
Solubility:	Oil and alcohol
PH:	10.0 to 11.0

#### PRODUCT APPLICATION DETAILS

If possible, COR 712 D should be dissolved in a suitable solvent and injected continuously into the flowline or pipeline, ahead of any gas gathering, or water drain off facilities. For good carrying, the COR 712 D should be injected using a nozzle or quill, to give vapourisation. COR 712 D will not cause foaming, or emulsion problems in separation equipment, when used at the recommended dosage, which is a range of 15 to 50 ppm based upon the severity of the problem in the gas line or the crude line. For gas wells the recommended rate should be between 1 and 2 pints of inhibitor per million cubic feet of gas.



COR 712 D – Continue

**PRODUCT HANDLING DETAILS:**

COR 712 D contains volatile amines and therefore inhalation of the vapour should be avoided specially in confined spaces.

In case of skin contact remove all contaminated clothing and wash affected areas with soap and water. Launder all contaminated clothing before re-use. Should any inflammation or rash develop, seek medical advise.

In case of eye contact hold the eye open and flush the eye with cold water for 10 to 20 minutes and seek medical attention.

In case of ingestion wash out mouth immediately. Drink large amounts of milk or water and seek medical aid.

In case of vapour inhalation remove to fresh air. Make warm and comfortable and seek immediate medical attention.

**PACKAGING DETAILS:**

COR 712 D is supplied in 55 US Gallon steel drums.



## COR 714

### PRODUCTION CORROSION INHIBITOR

#### Product description:

COR 714 is a synergistic blend of filming and volatile corrosion inhibitors.

#### TYPICAL PHYSICAL PROPERTIES:

Appearance: Amber Liquid.

Specific Gravity @ 30° C: 0.82 to 0.88

Viscosity @ 30° C: Less than 50 Cps.

Flash Point: Less than 30° C.

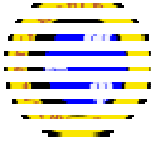
Solubility: Aromatic and Aliphatic solvent Dispersible in water

#### PRODUCT APPLICATION DETAILS:

COR 714 is used in oil production equipment that involves separation facilities for oil, gas and water.

The combination of components provides corrosion protection in all areas, and in particular the vapor overhead lines associated with these equipments.

Dosage rate is dependent upon the severity of the corrosion problem, and the location of the corrosion problem, but average dosage will be in the region of 5 PPM based upon total fluids.



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COR 714 - Continue

### **PRODUCT HANDLING DETAILS:**

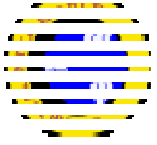
COR 714 is flammable by nature, and drums must be kept from direct sunlight or areas where upon flames are used.

Contamination of the skin should be washed with soap and water and a medicated cream applied.

Contamination of the eyes should be washed with large amounts of clean water or eye wash. A doctor should be consulted after this for medication.

### **PRODUCT PACKAGING DETAILS:**

COR 714 is supplied in 55 US gallon drums.



## COR 850

### PRODUCTION CORROSION INHIBITOR

#### Product description:

COR 850 contain amine salts in a solvent system which is soluble in brines as well as fresh waters. It is effective in protecting against corrosion due to CO<sub>2</sub>, H<sub>2</sub>S and organic acids by its action of FILM FORMATION on metal surfaces.

This product is effective on amine absorption units in refineries and whilst preventing corrosion in these units, does not contribute to foaming problems.

#### TYPICAL PHYSICAL PROPERTIES:

Appearance:	Amber Liquid
Specific Gravity @ 30° C:	0.96 to 1.05 gm/cc
Viscosity @ 30° C:	Less than 100 Cps.
Flash Point:	Greater than 100° F.
Solubility:	Soluble in heavy brines and fresh waters and amines
pH:	7.0 to 8.0

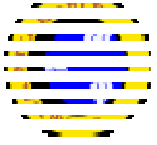
#### PRODUCT APPLICATION DETAILS:

COR 850 is suitable for use in systems with or without hydrocarbons being present, for example, wet production systems, water injection systems and wash waters used in desalting units. COR 850 are compatible with the typical treatment chemicals used in water injection and desalting systems.

Treatment rates in production facilities will vary according to the severity of the problem and a continuous dosage in the range of 5 PPM to 50 PPM is normally effective.

Residual levels of inhibitor in refinery amine units should be 100 PPM based upon total amine volume.

Batch treatment may be recommended for some applications.



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COR 850 - Continue

### **PRODUCT HANDLING DETAILS:**

Avoid contact with the eyes and skin. Remove contaminated clothing immediately and wash before re-use. Wear gloves and goggles.

If splashes to the eyes are experienced wash with clean water for 15 minutes and consult a doctor. Splashes to the skin should be treated by washing with soap and water.

### **PRODUCT PACKAGING DETAILS:**

COR 850 is supplied in lined 55 US gallon drums or plastic drums.



## COR 855

### PRODUCTION CORROSION INHIBITOR

#### Product description:

COR 855 is an amino phosphate ester corrosion inhibitor formulated in aromatic solvent. The product is oil soluble and water dispersible and will inhibit corrosion in both the oil and water phase.

COR 855 provides protection from corrosion caused by hydrogen sulphide, carbon dioxide, oxygen brine and organic acids. It is internally none emulsifying and consequently very suitable for gasfield use.

#### TYPICAL PHYSICAL PROPERTIES:

Appearance:	Liquid.
Specific Gravity @ 30° C:	0.82 to 0.90 mg/ml
Flash Point:	Less than 130° F.
Solubility:	Soluble in aromatic solvent

#### PRODUCT APPLICATION DETAILS:

COR 855 is a gas field corrosion inhibitor. It may be applied by batch or continuous injection. The actual amount of chemical used for treating will vary with the type of system and severity of the corrosion problem.

For batch injection on gas wells use 25 gallons of COR 855 diluted in 200 gallons of diesel in condensate and injected into the well monthly. 'Burping' or part flowing will improve the film build up to obtain the monthly treatment.

For continuous injection on gas wells, Inject 1/2 pint of COR 855 per million cubic ft of gas. Dilution in diesel or condensate is recommended , when the gas lines are relatively dry.





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COR 855 - Continue

### **PRODUCT HANDLING DETAILS:**

Avoid contact with eyes, skin and clothing. Do not take internally. In case of contact with eyes or skin, wash with water for 15 minutes and seek medical attention. Remove contaminated clothing and wash before re-use.

### **PRODUCT PACKAGING DETAILS:**

COR 855 is packaged in 55 US gallon mild steel drums.



## MULTI 857

### PRODUCTION MULTI FUNCTIONAL ADDITIVE

#### Product description:

MULTI 857 is a blended formulation designed for corrosion prevention in water based applications. It has corrosion and scale control properties and oxygen. Scavenger and can be used in packer fluids and completions fluids.

MULTI 857 also contain an oxygen scavenger to improve the efficiency of film formation and provide better protection.

#### TYPICAL PHYSICAL PROPERTIES:

Appearance:	Yellow liquid.
Specific Gravity @ 30° C:	1.00 to 1.10
Viscosity @ 30° C:	Less than 50 Cps.
Pour Point:	Less than 0° C.
Flash Point:	Above 115° F.
Solubility:	Completely soluble in water and brines.
pH:	5.5 to 6.5

#### PRODUCT APPLICATION DETAILS:

MULTI 857 should be applied at a point of good mixing before pumping into the pipeline. For packer and completion fluids, MULTI 857 should be added as the fluid is being prepared and before injection into the annulus.

MULTI 857 should be used at the rate of 1000 ppm for treatment in to a pipeline to be pressure tested and 5000 ppm for completion and packer fluids, due to the increased temperature profile and accelerated corrosion risk.



MULTI 857 - Continue

**PRODUCT HANDLING DETAILS:**

Protective clothing should be worn. This includes gloves, goggles and overalls.

Do not inhale vapours. Store in ventilated area. Contaminated clothing should be removed immediately and washed before reuse. Splashes to the skin should be immediately treated by washing with soap and water.

If eyes are affected wash immediately with clean water for at least 15 minutes and then seek medical attention.

Spillages should be absorbed with sand or earth and disposed of in accordance with local regulations. Final traces to be removed by washing down with water.

**PRODUCT PACKAGING DETAILS:**

MULTI 857 is supplied in 55 US gallon drums lined or plastic drums.



## COR 859

### PRODUCTION CORROSION INHIBITOR

#### Product description:

COR 859 is an oil soluble amine salt product designed for use in oil wells, gas wells and related transmission systems. This product provides protection against either hydrogen sulphide or carbon dioxide corrosion. It is highly oil dispersible and slightly water dispersible. COR 859 contain Demulsifiers and defoamers.

#### TYPICAL PHYSICAL PROPERTIES:

Appearance:	Brown liquid.
Specific Gravity @ 30° C :	0.92 to 0.95 mg/ml
Pour Point:	0° C.
Flash Point:	Below 100° F.
Solubility:	Oil dispersible, water dispersible

Contains no heavy metals or organic chlorides.

#### PRODUCT APPLICATION DETAILS:

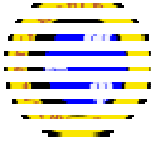
COR 859 may be applied by batch formation, squeeze, or continuous treatment. The amount of chemical and type of treatment will vary depending on the type of system and the severity of the corrosion problem.

For continuous treatment, inject COR 859 to maintain 25 PPM based on the dry oil.

For batch treatment, batch one to five gallons of COR 859 down the annulus and flush with sufficient fluid to insure that the chemical reaches bottom.

For formation squeeze, mix one to two drums of COR 859 with 10 barrels of production fluids and displace into the formation.

COR 859 should be injected neat, and predilutions should not be used because of the limited solubility.



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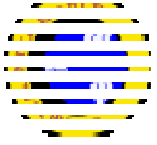
COR 859 - Continue

### **PRODUCT HANDLING DETAILS:**

Avoid contact with eyes, skin and clothing. Do not take internally. In case of contact with eyes or skin, wash with water for 15 minutes and seek medical attention. Remove contaminated clothing and wash before re-use.

### **PRODUCT PACKAGING DETAILS:**

COR 859 is packaged in 55 US gallon steel drums.



## COR 860

### PRODUCTION CORROSION INHIBITOR

#### Product description:

COR 860 is an amino phosphate ester corrosion inhibitor formulated in aromatic solvent. The product is oil soluble and water dispersible and will inhibit corrosion in both the oil and water phase.

COR 860 provide protection from corrosion caused by hydrogen sulphide, carbon dioxide, oxygen, brine and organic acids. It is none emulsifying and consequently very suitable for gasfield use.

#### TYPICAL PHYSICAL PROPERTIES:

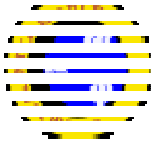
Form:	Yellow liquid.
Specific Gravity @ 30° C :	0.82 to 0.90 mg/ml
Flash Point:	Less than 130° F.
Solubility:	Soluble in aromatic solvent
pH:	

#### PRODUCT APPLICATION DETAILS:

COR 860 is an oil and gas field corrosion inhibitor. It may be applied by batch or continuous injection. The actual amount of chemical used for treating will vary with the type of system and severity of the corrosion problem.

For batch injection on gas wells use 25 gallons of COR 860 diluted in 200 gallons of diesel or condensate and should be injected into the well monthly. “Burping” or part flowing will improve the film build up to obtain the monthly treatment.

For continuous injection on gas wells, inject 1/2 pint of COR 860 per million cubic ft of gas. Dilution in diesel or condensate is recommended when the gas lines are relatively dry.



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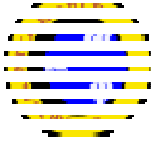
COR 860 - Continue

### **PRODUCT HANDLING DETAILS:**

Avoid contact with eyes, skin and clothing. Do not take internally. In case of contact with eyes or skin, wash with water for 15 minutes and seek medical attention. Remove contaminated clothing and wash before re-use.

### **PRODUCT PACKAGING DETAILS:**

COR 860 is packaged in 55 US gallon steel drums.



## COR 863

### PRODUCTION CORROSION INHIBITOR

#### Product description:

COR 863 is an oil soluble amine salt product designed for use in oil wells, gas wells and related transmission systems. This product provides protection against either hydrogen sulfide or carbon dioxide corrosion. It is highly oil dispersible and slightly water dispersible. COR 863 contains demulsifiers and defoamers.

#### TYPICAL PHYSICAL PROPERTIES:

Appearance:	Brown liquid
Specific Gravity @ 30° C :	0.92 to 0.95 mg/ml
Pour Point:	0° C.
Flash Point:	Below 100° F.
Solubility:	Oil dispersible, water dispersible

Contains no heavy metals or organic chlorides.

#### PRODUCT APPLICATION DETAILS:

COR 863 may be applied by batch formation, squeeze, or continuous treatment. The amount of chemical and type of treatment will vary depending on the type of system and the severity of the corrosion problem.

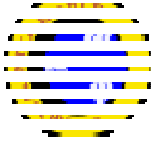
For continuous treatment, inject COR 863 to maintain 25 PPM based on the dry oil.

For batch treatment, batch one to five gallons of COR 863 down the annulus and flush with sufficient fluid to insure that the chemical reaches bottom.

For formation squeeze, mix one to two drums of COR 863 with 10 barrels of production fluids and displace into the formation.

COR 863 should be injected neat, and predilutions should not be used because of the limited solubility.





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COR 863 - Continue

### **PRODUCT HANDLING DETAILS:**

Avoid contact with eyes, skin and clothing. Do not take internally. In case of contact with eyes or skin, wash with water for 15 minutes and seek medical attention. Remove contaminated clothing and wash before re-use.

### **PRODUCT PACKAGING DETAILS:**

COR 863 is packaged in 55 US gallon steel drums.



## COR 947

### PRODUCTION CORROSION INHIBITOR

#### Product description:

COR 947 is an oil soluble multi component corrosion inhibitor incorporating amines, polymerised acids, and surfactants. Designed as a general corrosion inhibitor for oil field use.

#### TYPICAL PHYSICAL PROPERTIES:

Colour:	Amber liquid.
Specific Gravity @ 30° C :	0.85 to 0.90 mg/ml
Viscosity @ 30° C :	Less than 50 Cps.
Pour Point:	Less than 0° C.
Flash Point:	Greater than 150° F.
pH:	8 to 9

#### PRODUCT APPLICATION DETAILS:

COR 947 is an oil soluble corrosion inhibitor designed to prevent general corrosion by acidic gases and corrosive liquids. Because of its multi component manufacture, it has a wide area of application within the oil-fields. The most common applications are crude oil wells and flowing pipelines.

It is suitable for a variety of injection techniques such as, continuous injection, batch treatment, squeeze treatment, tubing displacement. Because of the balanced surfactancy in the product, it will form only the minimum of emulsion with production water, so will give a reduced water separation problems.

COR 947 has a formulation that is designed to give a high level of film persistency, so particularly useful for use on gas wells that have to be treated by tubing displacement or batch process.

The dosage rate for continuous injection in oil systems is 1 pint of COR 947 per 1000 barrels of produced fluid.



COR 947 - Continue

Batch treatment or tubing displacement will require the injection of 25 gallons of COR 947 delivered in 400 gallons of diesel oil, circulated and left to sit at the bottom of the well for three hours, before allowing the well on stream. Bringing the well back should be at a controlled rate first, building to the normal production rate.

**PRODUCT HANDLING DETAILS:**

Contamination to the skin should be washed off with soap and water and skin cream added contamination of eyes should be washed with water, and then an eye wash solution.

**PRODUCT PACKAGING DETAILS:**

COR 947 is supplied in 55 US Gallon drums.



## COR 947D

### Production gas field corrosion inhibitor

#### Product description:

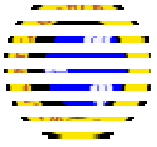
COR 947D is a multi component corrosion inhibitor incorporating Amines, dimer acids, and surfactants. Designed as a general corrosion inhibitor for gas field use.

#### Typical physical properties:

Appearance:	Amber liquid
Specific Gravity @ 30° C:	0.85 to 0.90 mg/ml
Viscosity @ 30° C:	Less than 50 Cps
Pour Point:	Less than 0° C
Flash point:	Greater than 110° F
pH:	9.7 to 10.0
Solubility:	Oil

#### Product application details:

COR 947D is an oil soluble corrosion inhibitor designed to prevent general corrosion by acidic gases and corrosive liquids. It is suitable for continuous injection, batch treatments, and tubing displacement. Because of the balanced surfactancy in the product, it will form only the minimum of emulsion. COR 947D has a formulation that is designed to give a high level of film persistency, so particularly useful for use on gas wells that have to be treated by tubing displacement or batch process. The dosage rate for continuous injection in either oil or gas systems is 1 pint of COR 947D per million cubic feet of gas. Batch treatment or tubing displacement will require the injection of 25 gallons of COR 947D delivered in 400 gallons of diesel oil and circulated or left to sit at the bottom of the well for three hours, before allowing the well on stream. Bringing the well back should be at a controlled rate first building to the normal production rate.



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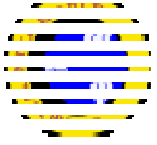
COR 947D – Continue

### **Production packing details:**

Package in 55 Gal Drums

### **Product safety details:**

Contamination to the skin should be washed off with soap and water and skin cream added  
contamination of eyes should be washed with water, and then an eye wash solution.



## COR 966

### PRODUCTION OIL AND GAS CORROSION INHIBITOR

#### Product description:

COR 966 is a specially formulated blend of film forming amines, fatty polymers and surfactant, designed to give superior corrosion protection in oil/water/gas systems. COR 966 are effective in the presence of hydrogen sulphide, carbon dioxide and organic acids. COR 966 are suitable for use in gas wells and gas plants.

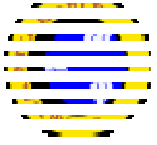
#### TYPICAL PHYSICAL PROPERTIES:

Appearance:	Amber liquid.
Specific Gravity @ 30° C.:	0.85 to 0.90 Gr/Cm <sup>3</sup>
Viscosity @ 30° C.:	Less than 100 cps
Pour Point:	0° C.
Flash Point (PMCC):	Greater than 150° F.
pH:	8.0 to 9.0

#### PRODUCT APPLICATION DETAILS:

For gas wells treat with COR 966 at a rate of about 1 pint per MMSCF of gas. It may be necessary to increase the dose rate where there is an appreciable amount of hydrocarbon produced.

For gas plants COR 966 can be used in most hydrocarbon processes where corrosion is a problem. Treatment rates will vary from 15 to 50 PPM. Depending on the severity of the problem.



**COR 966 – Continue**

**PRODUCT HANDLING DETAILS:**

COR 966 is alkaline and contains organic nitrogen. Eye and skin contact should therefore be avoided.

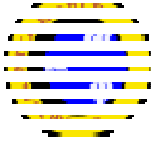
In the case of skin contact, remove all contaminated clothing and wash the affected area with soap and water. Launder all contaminated clothing before re use.

In the case of eye contact, hold the eyelids open and flush the eyes with water for 15 minutes. Seek medical aid.

COR 966 should be stored in closed drums away from direct heat.

**PRODUCT PACKAGING DETAILS:**

COR 966 is supplied in 55 US gallon drums.



## MULTI 7100

### PRODUCTION MULTI FUNCTIONAL ADDITIVE

#### Product description:

MULTI 7100 is a blended formulation of amines, fatty acids surfactant and polymers in a water solvent, and used to prevent corrosion and scale problems in oilfield applications.

#### TYPICAL PHYSICAL PROPERTIES:

Appearance:	Amber liquid.
Specific Gravity @ 30° C:	1.00 to 1.10
Viscosity @ 30° C:	Less than 250 Cps.
Pour Point:	Less than 0° C.
Flash Point (ASTM D93):	Greater 150° F.
Solubility:	water and brines.
pH:	7.0 to 8.0

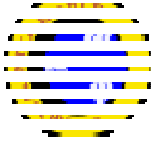
#### PRODUCT APPLICATION DETAILS:

MULTI 7100 is water soluble corrosion inhibitor with effectiveness against scale deposition which is formulated to give overall effectiveness in all corrosion problems in the oil industry. The scale inhibitor effectiveness assists in the corrosion control by removing scale deposits and allowing the filming amine to plate out.

The most common applications are crude oil wells, crude oil flowlines and pipeline systems. The method of application of MULTI 7100 is usually continuous injection. It has a high degree of solubility in all produced water and fresh water. This product has a low tendency to emulsify produced fluids and if required the formulation can be enhanced to reduce its emulsification tendencies further.

MULTI 7100 is an effective combination scale and corrosion control additive that can remove the need for a two chemical injection point to control a problem if scale and corrosion. In many cases the corrosion control is greatly improved, by removing scale deposits, which promote localized corrosion.





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MULTI 7100 – Continue

### **PRODUCT HANDLING DETAILS:**

May be harmful or fatal if swallowed contact skin and eye irritation. Do not allow contact with eyes, wear safety glasses when handling. If contact with eyes occurs wash with water for 15 minutes and get medical aid. Avoid contact with skin or clothing. If contact wash with water or remove any contaminated clothing.

### **PRODUCT PACKAGING DETAILS:**

MULTI 7100 is packaged in 55 US gallon drums or plastic drums.



## MULTI 9140

### PRODUCTION MULTIFUNCTIONAL ADDITIVE

#### Product description:

MULTI 9140 is an amino phosphate ester corrosion inhibitor formulated with imidazoline and aromatic solvent. The product is oil soluble and will inhibit corrosion in both the oil and water phase.

MULTI 9140 provide protection from corrosion caused by hydrogen sulphide, carbon dioxide, oxygen, brine and organic acids. It is unique, in as much as it attacks scale deposits removing them, to allow the film forming additives to protect the pipework.

#### TYPICAL PHYSICAL PROPERTIES:

Appearance:	Amber liquid.
Specific Gravity @ 30° C:	0.92 to 0.96
Viscosity @ 30° C:	Below 300 Cps.
Pour Point:	5° C.
Flash Point :	Less than 130° F.
Solubility:	Oil

#### PRODUCT APPLICATION DETAILS:

MULTI 9140 is predominatly a field corrosion inhibitor and may be applied by batch or continuous injection. The actual amount of chemical used for treating will vary with the type of systems and severity of the corrosion problem, this product is used where other conventional corrosion inhibitors have failed, due to heavy bitting underneath scale deposits. For batch injection a slug containing 25 galions or MULTI 9140 oiluted in 200 gallons of directe injected into the well monthly. For continous treatment in pipeline, injection of 0.5 pint of MULTI 9140 per million cubic ft of gas is recommended. However if the scale deposits are firmly adhered and ocuring aggravated pitting corrosion the dosage could be 3 to 4 times higher than the recommendation.



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MULTI 9140 - Continue

### **PRODUCT HANDLING DETAILS:**

Avoid contact with eyes, skin and clothing. Do not take internally. In case of contact with eyes or skin, wash with water for 15 minutes and seek medical attention. Remove contaminated clothing and wash before re-use.

### **PRODUCT PACKAGING DETAILS:**

packaged in 55 US gallon mild steel drums.

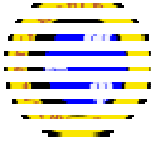


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## **SECTION “ E “ SNG SCAVENGER PRODUCTION PRODUCTS**

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## H SCAV 200

### PRODUCTION HYDROGEN SULPHIDE SCAVENGER

#### Product description:

H SCAV 200 is a catalysed aldehyde based scavenger for the removal of hydrogen sulphide from waters and brines. The catalyst in H SCAV 200 enables it to react with hydrogen sulphide about 100 times faster than conventional aldehyde based products.

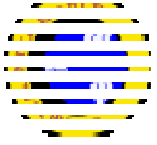
#### TYPICAL PHYSICAL PROPERTIES:

Appearance:	Yellow liquid.
Specific Gravity @ 30° C:	1.10 to 1.18
Pour Point:	Below 0° C.
Flash Point:	Greater than 150° F.

#### PRODUCT APPLICATION DETAILS:

H SCAV 200 should be injected into the water line to be treated with a metering pump at the rate of 20 PPM for every 1 PPM hydrogen sulphide to be removed.

For optimum results it is best to inject H SCAV 200 at a point of high turbulence to ensure good mixing.



H SCAV 200 - Continue

**PRODUCT HANDLING DETAILS:**

H SCAV 200 is harmful to the skin and eyes and has a pungent aldehyde odour. All necessary steps should be taken to avoid contact.

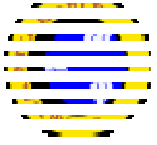
In case of skin contact, remove all contaminated clothing wash the affected area with soap and water. Launder all contaminated clothing before re-use.

In case of eye contact, hold the eyelids open and flush the eyes with water for 15 minutes. Seek medical advice.

In case of ingestion, drink large amounts of milk or water and seek medical aid. Do not induce vomiting.

**PRODUCT PACKAGING DETAILS:**

H SCAV 200 is supplied in 55 US Gallon lined drums or plastic drums.



## SCAV 271

### PRODUCTION OXYGEN SCAVENGER

#### Product description:

SCAV 271 is a reactive liquid oxygen scavenger designed to remove dissolved oxygen from aerated water. It is suitable for use in both fresh and salt water it is catalysed organically to remove oxygen quickly.

#### TYPICAL PHYSICAL PROPERTIES:

Appearance: Yellow liquid.  
Specific Gravity @ 30° C: 1.30 to 1.40 Gr/Cm<sup>3</sup>  
Viscosity @ 30° C: Less than 25 Cps.  
Sulphite Content: 63% by weight approximately  
Flash Point: Greater than 150° F.  
PH: 5.0 to 6.0

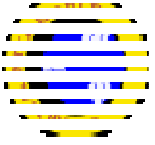
#### PRODUCT APPLICATION DETAILS:

Nine parts per million of SCAV 271 should be injected into the subject water supply, for removal of 1 PPM of dissolved oxygen, plus a slight excess to give a residual sulphite concentration.

This product is corrosive to mild steel and copper. Injection pumps and lines should be constructed from stainless steel.

SCAV 271 is used in the oil industry for both production and drilling applications. In drilling operations the levels of oxygen to be removed are high and it is more economical to utilise a filming corrosion inhibitor which works in the presence of oxygen.

When SCAV 271 is used in water injection facilities, it should be added to the water at the deaerator tower sump. Care should be exercised when using oxygen scavengers with other oil-field chemicals such as corrosion inhibitors.



SCAV 271 – Continue

Specific advice on multi chemical applications should be obtained from the suppliers, the oxygen scavenger should be given time to react with the oxygen before corrosion inhibitors and biocides are injected. Reaction times are fast and a time interval of approximately one minute is all that is required.

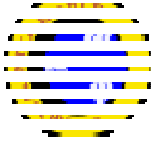
**PRODUCT HANDLING DETAILS:**

This product is acidic and care should be taken to avoid skin or eye contact. If contact is made, then a high quality eye wash solution should be used and affected areas of skin washed with large amounts of water.

**PRODUCT PACKAGING DETAILS:**

SCAV 271 is packaged in 55 US Gallon lined drums or plastic drums.





## SCAV 272

### PRODUCTION OXYGEN SCAVENGER

#### PRODUCT DESCRIPTION :

SCAV 272 is a liquid rapid acting oxygen scavenger. It is a catalysed sulphite solution and can be used in most applications requiring chemical deoxygenation. It is suitable for both fresh and soft water and is catalysed to give fast reaction, even in low temperatures. This product is an alternative to using SCAV 271 liquid sulphite, as it is easier to handle and has a slower rate of depletion from air contamination in the storage vessel.

#### TYPICAL PHYSICAL PROPERTIES:

Appearance:	Colourless liquid.
Specific Gravity @ 30° C:	1.25 to 1.35 Gr/Cm <sup>3</sup>
Viscosity @ 30° C:	Less than 25 CPS
Pour Point:	0° C.
PH Neat:	5.0 to 6.0

#### PRODUCT APPLICATION DETAILS:

Twenty parts per million of SCAV 272 should be injected into the subject water supply, for removal of 1 PPM of dissolved oxygen, plus a slight excess to give a residual sulphite concentration.

This product is corrosive to mild steel and copper. Injection pumps and lines should be constructed from stainless steel.

SCAV 272 is used in the oil industry for both production and drilling applications. In drilling operations the levels of oxygen to be removed are high and it is more economical to utilise a filming corrosion inhibitor which works in the presence of oxygen.

When SCAV 272 is used in water injection facilities, it should be added to the water at the deaerator tower sump. Care should be exercised when using oxygen scavengers with other oil-field chemicals such as corrosion inhibitors.

Specific advice on multi chemical applications should be obtained from the suppliers.



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SCAV 272 - Continue

### **PRODUCT HANDLING DETAILS:**

This product is acidic and care should be taken to avoid skin or eye contact. If contact is made, then a high quality eye wash solution should be used and affected areas of skin washed with large amounts of water.

### **PRODUCT PACKAGING DETAILS:**

SCAV 272 is packaged in 55 US Gallon lined drums or plastic drums.



## **SCAV 273**

### **PRODUCTION OXYGEN SCAVENGER**

#### **Product description:**

SCAV 273 is a liquid sulphite solution designed specifically to remove dissolved oxygen from water systems to prevent pitting type corrosion.

#### **TYPICAL PHYSICAL PROPERTIES:**

Appearance:	Yellow liquid.
Specific Gravity @ 30° C.:	1.32 to 1.38 gm/cc
Viscosity:	Less than 100 cps
Pour Point:	0° C.
Flash Point:	Above 150° F.
Solubility:	water soluble

#### **PRODUCT APPLICATION DETAILS:**

SCAV 273 should be applied continuously to the water system for maximum effect. SCAV 273 should be injected at a level of 36 to 38 PPM of chemical for every 1 PPM of oxygen present. Contact with air during storage should be minimised as this can lead to loss of effectiveness.

This product is corrosive to mild steel and copper. Injection pumps and lines should be constructed from stainless steel.



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SCAV 273 - continue

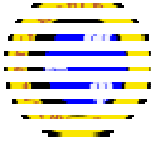
### **PRODUCT HANDLING DETAILS :**

Care should be taken to avoid skin or eye contact. If contact is made, then a high quality eye wash solution should be used and affected areas of skin washed with large amounts of water.

Avoid using SCAV 273 in confined or badly ventilated areas.

### **PRODUCT PACKAGING DETAILS:**

SCAV 273 is supplied in 55 US Gallon lined drums or plastic drums.



## **SCAV CW 279**

### **PRODUCTION OXYGEN SCAVENGER**

#### **Product description:**

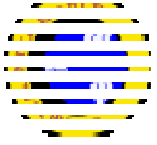
SCAV CW 279 is a solid catalysed sulphite, in briquette form , designed specifically to remove dissolved oxygen from water systems to prevent pitting type corrosion. The briquette form makes it particularly suitable for addition to cooling ponds.

#### **TYPICAL PHYSICAL PROPERTIES:**

Appearance:	White powder block
Flash Point:	Greater than 150° F
Solubility :	Water and Brine

#### **PRODUCT APPLICATION DETAILS:**

SCAV CW 279 should be added periodically to the cooling water pond for ease of addition and maximum effect . SCAV CW 279 should be added.



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SCALE SCAV CW 279 Continue.

### **PRODUCT HANDLING DETAILS:**

Avoid contact with skin, clothing and eyes. Wear goggles and gloves at all times when handling.

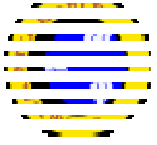
In the event of eye contact. Hold open the eye lids and flush the eyes with cold water for 15 minutes . Seek medical aid.

In the event of skin contact. Remove all contaminated clothing and wash the affected area with soap and water. Launder all clothing before reuse.

Avoid using SCAV CW 279 in confined or badly ventilated areas.

### **PRODUCT PACKAGING DETAILS:**

SCAV CW 279 is supplied in briquette form.



## SCAV 285

### PRODUCTION OXYGEN SCAVENGER

#### Product description:

SCAV 285 is a catalysed sodium sulphite powder. Easily soluble in fresh water or brines.

#### TYPICAL PHYSICAL PROPERTIES:

Appearance:	White powder
Activity:	95%
PH of 5% solution:	7.5

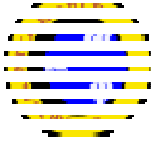
#### PRODUCT APPLICATION DETAILS:

SCAV 285 reacts with dissolved oxygen in water and prevents pitting corrosion. Removal of dissolved oxygen is very fast even at low temperatures.

SCAV 285 can be used alone, or in conjunction with mechanical deaerators for removal of the final traces of oxygen. SCAV 285 should be dissolved in fresh water to form solutions of around 10% weight to volume. A positive displacement pump should be used to inject SCAV 285 solution into an area of good mixing.

SCAV 285 solution should be stored in a tank with a close fitting outer lid and a floating inner cover, to limit the contact with air.

SCAV 285 should be used at the rate of 9 PPM for every 1 PPM dissolved oxygen.



SCAV 285 - Continue

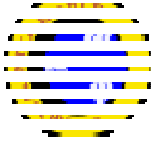
**PRODUCT HANDLING DETAILS:**

SCAV 285 is not considered harmful and washing of the skin or eyes with large amounts of water is sufficient to remove irritation.

**PRODUCT PACKAGING DETAILS:**

SCAV 285 is available in 25-kg bags.





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## **SECTION “ F “ SNG MISCELLANEOUS PRODUCTION PRODUCTS**

- DFOAM 4538
- PPD 100
- PPD 115

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## D-FOAM 4538

### PRODUCTION DEFOAMER

#### Product description:

DFOAM 4538 is a tributyl phosphate based defoamer in an organic solvent system. It will inhibit foam formation as well as acting as a foam breaker.

DFOAM 4538 is suitable for use in many applications in the oil industry.

#### TYPICAL PHYSICAL PROPERTIES:

Appearance:	Colourless liquid.
Specific Gravity @ 30° C:	0.95 to 0.98 gm/cc
Viscosity @ 30° C:	Less than 20 cps.
Pour Point:	0° C.
Flash Point:	Greater than 150° F.
Solubility:	Readily soluble in most organic solvents less than 0.10% soluble in water.

#### PRODUCT APPLICATION DETAILS:

DFOAM 4538 should be diluted with a suitable organic solvent such as white spirit and used as a 10 to 15% solution.

It should be added to a system before foaming occurs. To break existing foam it is more effective to spray DFOAM 4538 directly onto the foam layer using a dilute solution. Once foaming has been eliminated DFOAM 4538 should be added continuously to the system prior to the point of foaming.

The dosage will vary according to the process and the degree of foaming but it can be as low as 50 PPM and as high as 0.30% in severe cases.



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DFOAM 4538 - Continue

### **PRODUCT HANDLING DETAILS:**

DFOAM 4538 should be stored in well ventilated areas. Keep drums tightly sealed when not in use. Wear gloves and goggles. Do not breathe vapours. Splashes to the eyes should be treated immediately by washing with clean water for some time before seeking medical help. Wash splashes to the skin with cold water. Contaminated clothing should be removed immediately and laundered before re-use. It is harmful if swallowed.

### **PRODUCT PACKAGING DETAILS:**

DFOAM 4538 is supplied in 55 US gallon drums.



## PPD 100

### PRODUCTION POUR POINT DEPRESSANT

#### Product description:

PPD 100 is an oil soluble high molecular weight polymer in aromatic solvent. It is a broad spectrum product functioning on a wide variety of paraffinic crude oils.

PPD 100 functions by modifying the crystals of paraffin wax in crude and fuel oils such that the natural web structure is only formed at modified pour point. In most cases the web structure is totally inhibited and precipitation of paraffin wax occurs substantially below the natural pour point.

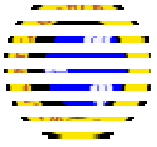
#### TYPICAL PHYSICAL PROPERTIES:

Appearance:	Yellow liquid.
Specific Gravity @ 30° C.:	0.84 to 0.88 gm/cc
Pour Point:	30° F.
Flash Point:	46° F.

#### PRODUCT APPLICATION DETAILS:

PPD 100 should be injected on a continuous basis into crude or fuel oil systems at a point where the system temperature is at least 10° C. above the cloud point. For optimum pour point depression PPD 100 should be free flowing or maintained at system temperature. Pour point depression will not function correctly if injected at or below wax appearance point.

PPD 100 is designed to reduce backpressure on pipelines by maintaining a wax free pipeline wall, by altering the wax structure so that crystals cannot adhere themselves onto the metal.



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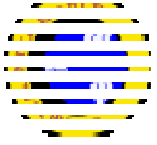
PPD 100 - Continue

### **PRODUCT HANDLING DETAILS:**

As with all aromatic solvents, goggles and gloves must be worn when handling PPD 100. Smoking and naked lights must be forbidden. Adequate ventilation is essential. Compressed air self-contained breathing apparatus should be available in case of emergency. Fires can be extinguished by dry chemical powder.

### **PRODUCT PACKAGING DETAILS:**

PPD100 is supplied in 55 US gallon drums.



## PPD 115

### PRODUCTION POUR POINT DEPRESSANT

#### Product description:

PPD 115 is an oil soluble polymeric pour point depressant in aromatic solvent. It is a broad spectrum product functioning on a wide variety of crude oils.

PPD 115 functions by modifying the crystallisation of paraffin wax in crude and fuel oils such that the natural web structure is only formed at modified pour point. In most cases the web structure is totally inhibited and precipitation of paraffin wax occurs at some point substantially below the natural pour point.

#### TYPICAL PHYSICAL PROPERTIES:

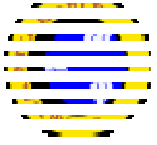
Appearance:	Colourless liquid.
Specific Gravity @ 30° C:	0.84 to 0.88 gm/cc
Viscosity @ 30° C:	Less than 500 cps.
Pour Point:	10° C.
Flash Point:	24° C.

#### PRODUCT APPLICATION DETAILS:

Pour point depressants are often specific to a certain type of crude and so laboratory evaluation, by means of pour point studies and model pipeline tests should always be carried out before use in the field.

PPD 115 should be injected on a continuous basis into crude or fuel oil systems at a point where the system temperature is at least 10° C. above the cloud point. For optimum pour point depression PPD 115 should be free flowing or maintained at system temperature. Pour point depression will not function correctly if injected at or below the wax appearance point.

In severe cases it may be necessary to treat each individual well by injecting PPD 115 into a take off stream and slip streaming it back down the annulus.



PPD 115 - Continue

**PRODUCT HANDLING DETAILS:**

Goggles and gloves must be worn when handling PPD 115. Smoking and naked lights must be forbidden. Adequate ventilation is essential.

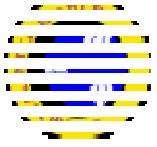
If in contact with skin or eyes was affected area with plenty of water.

In case of ingestion drink large amounts of milk or water and seek medical aid. Do not induce vomiting.

Compressed air self-contained breathing apparatus should be available in case of emergency. Fires can be extinguished with dry chemical powder.

**PRODUCT PACKAGING DETAILS:**

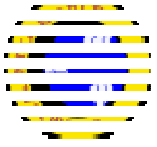
PPD 115 is supplied in 55 US gallon drums.



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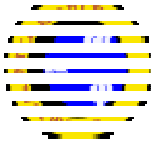
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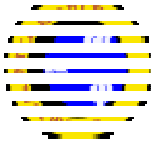
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