

### IRON SULFIDE REMEDIATION



**POTASSIUM PERMANGANATE SOLUTION** is a 4% aqueous solution of potassium permanganate useful for the remediation of pyrophoric and non-pyrophoric iron sulfide particulate deposition as well as system mal-odours. It requires no specialized equipment for safe, easy, and efficient application with reduced decontamination times for rapid vessel entry.

### FEATURES AND BENEFITS

- Concentrate solution
- Contains added surfactant for rapid wetting of oil-wet deposits
- Compatible with other surfactants for additional penetration and removal of surface deposits
- Generates no gaseous by-products during application
- Product coloration changes during application indicating completion of reaction
- Wastewater friendly
- Dramatically reduces turnaround time
- Provides for fast, easy and safe application procedures
- Spent solution requires no specialized handling procedures and can be sent directly for disposal

### DIRECTIONS FOR USE

#### Use procedure

Use **POTASSIUM PERMANGANATE SOLUTION** as part of a high pressure application or liquid-phase circulation after completion of a full chemical cleaning procedure. May also be used for continuous injection. Not recommended for vapor phase injections. Consult with your local West Penetone sales representative for procedures best suited for your application.

#### Concentration

Preliminary recommendations include applications at concentrations of 20-25% v/v neutral pH, aqueous dilution for complete particulate iron sulfide remediation.

#### Use temperature

Should be used as part of a cold to warm water wash or circulation.

#### Dwell time / Operation time

Dependent on job, site and method of application. Dwell time may vary from 8-12 hours depending on depth of scaling and degree of contamination. Retain monitoring is recommended.

# POTASSIUM PERMANGANATE SOLUTION

## IRON SULFIDE PARTICULATE REMEDIATION

### PHYSICAL PROPERTIES

Appearance	Purple liquid
Odour	Odorless
Specific Gravity @ 20°C	0.95-1.00
Viscosity	Thin
pH	6.0-7.0
Flash Point (TCC )	None
Boiling Point	Approx. 100°C (212°F)
Freezing Point	Approx. 0°C (32°F)
Foaming Tendency	Nil
Concentration Monitoring Techniques	Visual
Rinsability	Excellent
Water Solubility	Complete

### INCOMPATIBILITY

Organic and combustible materials, strong reducing agents and acids, peroxides, alcohols, nitrates, perchlorates, hypophosphites, hyposulphites, sulphites, oxalates, halides, hydrides, and heat

### WAREHOUSING PRECAUTIONS

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Avoid storage on wood floors and keep separate from incompatibles.

### AVAILABLE SIZES

			
		205L / 54,16Gal	

### FIRST AID MEASURES

#### EYE CONTACT

Wash with plenty of water for 15 minutes. Consult physician if irritation develops or persists.

#### SKIN CONTACT

Wash with plenty of water. Consult physician immediately.

#### INHALATION

Give fresh air or artificial respiration. Consult physician.

#### INGESTION

Do not induce vomiting. Drink plenty of water and contact physician immediately.

### HEALTH

1

### FLAMMABILITY

0

### REACTIVITY

0

#### LEGEND

0 = MINIMAL RISK  
1 = SLIGHT RISK  
2 = MODERATE RISK  
3 = SERIOUS RISK  
4 = SEVERE RISK

### PERSONAL PROTECTION Security equipment



WHMIS



**IMPORTANT:** Before using POTASSIUM PERMANGANATE SOLUTION, always be sure to read and follow precautions and directions for use appearing on the product container label and on the safety data sheet (S.D.S).