**SAFETY DATA SHEET**

**SECTION 1: IDENTIFICATION**

**PRODUCT NAME:** IRON SULFIDE DISSOLVER OPP

**SUPPLIER’S NAME & ADDRESS:**
WEST PENETONE INC.
11411 160 STREET
EDMONTON, AB T5M 3T7

**USE:** Iron sulfide scale mitigation

**EMERGENCY TELEPHONE NUMBERS:**
WEST PENETONE: (780) 454-3919
CANUTEC: (613) 996-6666

**SECTION 2: HAZARDS IDENTIFICATION**

Irritant to eyes and skin. May be harmful if swallowed or inhaled.

**SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS**

<table>
<thead>
<tr>
<th>%</th>
<th>CAS #</th>
<th>ACGIH TLV (TWA)</th>
<th>LD50 OF MATERIAL</th>
<th>LC50 OF MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-5</td>
<td>15827-60-8</td>
<td>Not available</td>
<td>Rat-oral 7.180mg/kg</td>
<td>Not available</td>
</tr>
<tr>
<td>10-30</td>
<td>55566-30-8</td>
<td>2 mg/m^3</td>
<td>Rat-oral 248mg/kg</td>
<td>Rat-inhalation 0.59mg/L, 4 hr</td>
</tr>
</tbody>
</table>

**SECTION 4: FIRST AID MEASURES**

**EYE CONTACT:** Flush with plenty of water for 15 minutes. Contact physician if irritation persists or develops.

**SKIN CONTACT:** Wash with soap and water. Consult physician if irritation develops or persists.

**INHALATION:** Give fresh air or artificial respiration. Consult physician

**INGESTION:** Do not induce vomiting. Drink 1 or 2 glasses of water followed by milk, milk of magnesia or other non-alcoholic liquids and contact physician

**SECTION 5: FIRE FIGHTING MEASURES**

**MEANS OF EXTINCTION:** Not applicable

**HAZARDOUS COMBUSTION PRODUCTS:** Not applicable

**SPECIAL PRECAUTIONS FOR FIREFIGHTERS:** Not applicable

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**SPILL CONTROL MEASURES:**
For small spills, dilute with water and mop up or absorb with an inert dry materials and place in an appropriate waste disposal container. For large spills, do not allow product to enter drains. Contain and collect spillage with absorbent material and proceed as above.

**SECTION 7: HANDLING AND STORAGE**

**STORAGE AND HANDLING PROCEDURES:**
Keep container closed when not in use. Wear appropriate respirator when ventilation is inadequate.
SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS:
See Section 3

PERSONAL PROTECTION:
Splash proof goggles. Chemical-resistant gloves. Cartridge respirators for anticipated vapors if exposure limits are exceeded.

ENGINEERING CONTROLS:
Positive exhaust ventilation required for enclosed areas and near source of emissions. Use corrosion-resistant ventilation equipment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:
Yellow liquid

ODOR:
Acidic

ODOR THRESHOLD:
Not applicable

pH:
3.0-5.0

FREEZING POINT:
Not available

BOILING POINT:
Not available

FLASH POINT:
None

EVAPORATION RATE, water = 1:
1

FLAMMABILITY (SOLID, GAS):
Not applicable

SECTION 10: STABILITY AND REACTIVITY

CONDITIONS OF STABILITY:
Product is stable

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:
Oxidizing materials and strong alkali. Avoid excessively high temperatures. Unstable at high pH

REACTIVITY:
Not reactive under normal conditions

HAZARDOUS DECOMPOSITION PRODUCTS:
Elemental oxides at extreme temperatures

POSSIBILITY OF HAZARDOUS REACTIONS:
None

SECTION 11: TOXICOLOGICAL INFORMATION

ROUTE OF ENTRY:
Skin and eye contact (acute)
Inhalation (acute)
Ingestion

ACUTE HEALTH EFFECTS:
May cause irritation or burns to skin and eyes. May irritate upper respiratory tract and be harmful if inhaled. Ingestion may cause irritation of the gastrointestinal tract and diarrhea.

EFFECTS OF CHRONIC EXPOSURE:
None known.

EXPOSURE LIMITS AND TOXICITY:
See Section 3
SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: THPS
- LC 50: Fish-Oncorhynchus mykiss/96h: 119 mg/L, Fish-Lepomis macrochirus/96h: 93 mg/L
- EC 50: Daphnia-Daphnia magna/48h: 19.4 mg/L, Fresh water algae-Pseudokirchneriella subcapitata/96h: 0.20 mg/L

DTPMP
- LC 50: Fish-Oncorhynchus mykiss/96h: 216 mg/L, Fish-Lepomis macrochirus/96h: 758 mg/L
- EC 50: Daphnia-salt water/48h: 5.378 mg/L

PERSISTENCE AND DEGRADABILITY: THPS
- 70% biodegradation after 21 days (aerobic), 60% after 30 days (anaerobic)

BIOACCUMULATIVE POTENTIAL: THPS

MOBILITY IN SOIL: THPS
- Log Koc = 2.2. Moderately mobile

OTHER ADVERSE EFFECTS: No known significant effects or critical hazards.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:
Consult local and/or provincial authorities.

SECTION 14: TRANSPORT INFORMATION

T.D.G. classification: Corrosive Liquid, Organic NOS [Tetrakis(hydroxymethyl)phosphonium sulphate] UN 1760, Class 8, PG III

SECTION 15: REGULATORY INFORMATION

WHMIS classification: E, D2B
DSL compliant

SECTION 16: OTHER INFORMATION

PREPARED BY: GREG CEBULIAK
TECH. SERVICES REPRESENTATIVE
PHONE NO: (780) 454-3919

DATE: June 9, 2015
VERSION: 1
SUPERCEDES: Not applicable

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