

Material Safety Data Sheet

INSOL™ PI-DE

Note: Read and understand Material Safety Data Sheet before handling or disposing of product

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MATERIAL IDENTITY

Product Code and Trade Name: **InSol™ PI-DE**
Description: Mixture
Product Use: Wax Crystal Modifier and De-Emulsifier

Manufacturer's Name and Address:
Kosta Oil Field Technologies, Inc.
12976 Sugar Ridge Boulevard
Stafford, Texas 77477

Telephone Numbers:

TRANSPORTATION EMERGENCY in United States: CHEMTREC 800-424-9300
TRANSPORTATION EMERGENCY International: CHEMTREC 703-527-3887 (May call collect)
HEALTH EMERGENCY: (877) 732-0194 or (713) 906-1948
GENERAL MSDS ASSISTANCE: 281/568-8415
TECHNICAL INFORMATION: 281/568-8415

2. COMPOSITION INFORMATION ON INGREDIENTS

Composition:

Chemical/Common Name	CAS No.	Exposure Limit	Range in Vol. %
1st Main Ingredient: Confidential ingredient	N/A	None Established*	60-80
2nd Main Ingredient: Confidential ingredient	N/A	None	10-20
3rd Main Ingredient: Confidential ingredient	N/A	None	10-20

3. HAZARD IDENTIFICATION

Emergency Overview:

APPEARANCE	Reddish-pale yellow liquid
ODOR	Pine
RISK SUMMARY	Combustible Liquid. Avoid heat, sparks and open flame. Can cause eye and skin irritation. Inhalation of vapor or mists may cause respiratory tract irritation. Ingestion may cause severe gastrointestinal irritation. If swallowed, vomiting may cause lung damage. May cause central nervous system depression (dizziness, drowsiness, lack of coordination).

N.D. Not Determined

N.A. Not Applicable

N.T. Not Tested

4. FIRST AID MEASURES

INHALATION	Remove to fresh air. Get medical attention if cough or other symptoms develop.
EYES	Remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of low-pressure water for at least 15 minutes. Get immediate medical attention.
SKIN	Remove contaminated clothing. Wash affected areas with soap and water. If irritation develops, get medical attention. Thoroughly wash clothing before reuse.
INGESTION	If conscious, drink large quantities of water. DO NOT induce vomiting. Get immediate medical attention. NEVER give anything by mouth to an unconscious person.

5. FIRE-FIGHTING MEASURES

FLAMMABLE PROPERTIES	Flashpoint 87 °F [TCC]
FLAMMABILITY LIMITS-	Lower 0.7%
	Upper 6.1%
EXTINGUISHING MEDIA	Water spray, dry chemical, foam, carbon dioxide or halon may be used on fires involving this product.
FIRE FIGHTING INSTRUCTIONS	Cool containers with water to prevent rupture. Wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved (or equivalent) and full protective gear when fighting fires involving this product.
CONDITIONS TO AVOID	Avoid impact, friction, heat, sparks or flame.
HAZARDOUS COMBUSTION PRODUCTS	During combustion, the following substances may be formed: carbon monoxide, carbon dioxide, irritating gases, aldehydes, and carboxylic acids.

6. ACCIDENTAL RELEASE MEASURES (Transportation Spills Call: CHEMTREC 800-424-9300)

Extinguish all sources of ignition. For small spills: Add absorbent, sweep up, and dispose appropriately. For large spills, dike to contain and pump into drums for use or disposal.

In case of accidental spill or release, refer to Section 8, Personal Protective Equipment and General Hygiene Practices.

7. HANDLING AND STORAGE

There are no unusual hazards associated with handling of this product.

Store in a cool dry place.

Keep container closed when not in use.

Avoid heat, flame, sparks, and other ignition sources.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS	Provide adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Discharge from the ventilation system should comply with applicable air pollution control regulations.
EXPOSURE GUIDELINES	PARTICULATES (mist): If used under conditions that generates mist, the OSHA TWA of 5 mg/m ³ respirable fraction (15 mg/m ³ total), and ACGIH TLV-TWA of 3 mg/m ³ respirable fraction (10 mg/m ³ total) should be observed.
RESPIRATORY PROTECTION	Appropriate respiratory protection is required when exposure to airborne contaminants may exceed acceptable limits. Respirators should be selected and used in accordance with OSHA, Subpart 1 (29 CFR 1910.134) and manufacturer's recommendations.

N.D. Not Determined

N.A. Not Applicable

N.T. Not Tested

SKIN PROTECTION

Wear chemically resistant rubber gloves and apron to minimize exposure.

EYE PROTECTION

Wear chemical safety glasses, goggles, or face shield to prevent eye contact. Eyewash fountains and safety showers should be easily accessible.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Reddish to pale yellow	ODOR	Pine odor
PHYSICAL STATE	Liquid	pH	N/A
BOILING POINT	@ 5% 158°C		
	@95% 180°C	FREEZING POINT	< -40 °C
SPECIFIC GRAVITY	0.877 @ 15.6°C	PERCENT VOLATILE	80
VAPOR PRESSURE	2 mmHg @ 20°C	SOLUBILITY IN WATER	20%

10. STABILITY AND REACTIVITY

GENERAL STABILITY CONSIDERATIONS	Stable under recommended handling and storage conditions
HAZARDOUS DECOMPOSITION PRODUCTS	None known
HAZARDOUS POLYMERIZATION	Not anticipated under normal or recommended handling and storage conditions.

11. TOXICOLOGICAL INFORMATION

REPORTED HUMAN EFFECTS

Product/Similar product is irritating to the skin and mucous membranes. Ingestion causes gastric irritation, pain, nausea, vomiting. Inhalation may cause chest pain, bronchitis, dizziness, delirium, ataxia, or coma. Inhalation or aspiration may cause pulmonary edema or pneumonia. May be absorbed through the skins, lungs, and intestinal tract, resulting in kidney damage, painful urination, and respiratory or central nervous system effects. Chronic contact may cause benign skin tumors. A maximization skin patch test with 10% in petroleum resulted in three sensitization reactions from 25 subjects tested. Sensitization suspected to be caused by oxidation products of the test sample. Retesting under duplicate conditions with a sample protected from oxidation resulted in no sensitization changes.

REPORTED ANIMAL EFFECTS:

No animal toxicity studies have been carried out with this product.

CARCINOGENICITY INFORMATION

Not listed as a carcinogen by NTP. Not regulated as a carcinogen by OSHA. Not evaluated by IARC.

MUTAGENICITY/GENOTOXICITY INFORMATION

No mutagenicity studies have been carried out with this product.

12. ECOLOGICAL INFORMATION

No ecological studies have been carried out on this product.

13. DISPOSAL CONSIDERATIONS

N.D. Not Determined

N.A. Not Applicable

N.T. Not Tested

Incineration in accordance with applicable regulations is the recommended disposal method. Disposal should be in accordance with applicable Federal, state, and local regulations.

14. TRANSPORT INFORMATION

TRANSPORTATION

Proper Shipping Description: Flammable liquids, n.o.s.; UN1993; 3; PGIII (Contains Xylene)

15. REGULATORY INFORMATION

OSHA Hazardous by definition of 29 CFR1910.1200 for flammability.

CERCLA (SARA Title III) Hazard Category 6 Fire Hazard

RCRA Classified as RCRA Hazardous waste (flammability characteristic)

16. OTHER INFORMATION

Emergency Contact: Chemtrec 800-424-9300

Hazard Ratings

HMIS: Health = 2 Flammability = 3 Reactivity = 0 Personal Protection = C

NFPA: Health = 1 Flammability = 3 Reactivity = 0

(0 = minimal, 1 = slight, 2 = moderate, 3 = serious, 4 = severe)

KostaTech recommends that all exposures to this product be minimized by strictly adhering to recommended occupational controls and procedures to avoid any potential adverse health effects.

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