

Kosta Oil Field Technologies (KostaTech)

Safety Data Sheet

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

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MATERIAL IDENTITY

Product Code and Trade Name: **InSol™ AS**
CAS No.: Not applicable for mixtures
Chemical Name and/or Family or Description: Mixture
Product Use: Asphaltene Solvent/Dispersant

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

Telephone Numbers:

TRANSPORTATION EMERGENCY in United States: INFOTRAC 800-535-5053
TRANSPORTATION EMERGENCY International: INFOTRAC 352-323-3500 (May call collect)
HEALTH EMERGENCY: 800-535-5053
GENERAL MSDS ASSISTANCE: 281/568-8415
TECHNICAL INFORMATION: 281/568-8415

2. HAZZARD IDENTIFICATION

EMERGENCY OVERVIEW

Appearance and Odor: Yellowish to brown clear liquid with rather pleasant smell.

WARNING STATEMENT

WARNING! FLAMMABLE LIQUID. MAY CREATE A FLASH FIRE HAZARD.
MAY CAUSE IRRITATION TO EYES AND SKIN
HARMFUL IF INHALED
CAUSES RESPIRATORY TRACT IRRITATION
HEATED PRODUCT MAY CAUSE DIZZINES AND DROWSINESS
MAY CAUSE CHRONIC HEALTH-EFFECTS BASED ON ANIMAL DATA

		HMIS				NFPA	
Health:	2	Reactivity:	0	Health:	2	Reactivity:	0
Flammability:	3	Special:	-	Flammability:	3	Special:	-

POTENTIAL HEALTH EFFECTS

	EYE	SKIN	INHALATION	INGESTION
Primary Route of Exposure:	x	x	x	-

Effects of Overexposure

Acute:

Eyes:

May cause irritation, experienced as mild discomfort and seen as slight excess redness of the eye.

Skin:

Adverse effects are expected from absorption of material through the skin.

May cause irritation with discomfort seen as local redness and possible swelling. Prolonged contact, as with clothing wetted with material, may cause more severe irritation and discomfort.

Inhalation:

N.D. Not Determined

N.A. Not Applicable

N.T. Not Tested

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Vapors or mist may cause irritation of the nose and throat, Headache, nausea, vomiting, dizziness, drowsiness, euphoria, loss of coordination, and disorientation. In poorly ventilated areas or confined spaces, unconsciousness and asphyxiation may result.

Ingestion:

If swallowed, product may cause abdominal discomfort, nausea, and diarrhea may occur.

Sensitization Properties:

Unknown.

Chronic:

No adverse effects anticipated.

Medical Conditions Aggravated by Exposure:

Because of its irritating properties, repeated skin contact may aggravate an existing dermatitis (skin condition).

Other Remarks:

None

3. COMPOSITION INFORMATION ON INGREDIENTS**Composition:**

Chemical/Common Name	CAS No.	Exposure Limit	Range in Vol. %
1st Main Ingredient: Confidential ingredient	N/A	None Established	20-30
2nd Main Ingredient: Confidential ingredient	N/A	None Established	0-10
3rd Ingredient (Dipentene):	138-86-3	None	60-80

4. FIRST AID MEASURES**Eyes:**

Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids apart while flushing to rinse entire surface of eye and lids with water. Get medical attention.

Skin:

Wash skin with plenty of soap and water until all traces of material is removed. Remove and clean contaminated clothing (See Other Instructions). Destroy non-resistant footwear. Get medical attention if skin irritation persists or contact has been prolonged.

Ingestion:

If more than several mouthfuls have been swallowed, give two glasses of water (16 oz.). Get medical attention.

Inhalation:

Remove to fresh air, If not breathing, give artificial respiration. If breathing is difficult, qualified personnel may administer oxygen. Get immediate medical attention.

Other Instructions:

Remove and dry-clean or launder clothing soaked or soiled with this material before reuse. Dry cleaning of contaminated clothing may be more effective than normal laundering. Inform individuals responsible for cleaning of potential hazards associated with handling contaminated clothing.

5. FIRE-FIGHTING MEASURES

Ignition Temp. Degrees F.:	N.D.	Flash Point Degrees F.: (Method):	110 °F (PMCC)
Flammable Limits (%) Lower:	N.D.	Upper:	N.D.

N.D.	Not Determined	N.A.	Not Applicable	N.T.	Not Tested
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Recommended Fire Extinguishing Agents And Special Procedures:

According to NFPA guide, use water spray, dry chemical, foam, or carbon dioxide. Water or foam may cause frothing. Use water to cool fire-exposed containers. If a leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for persons attempting to stop the leak.

6. ACCIDENTAL RELEASE MEASURES (Transportation Spills Call: INFOTRAC 800-535-5053)

Procedures in Case of Accidental Release, Breakage, or Leakage:

Ventilate area. Avoid breathing vapor. Use self-contained breathing apparatus or supplied air for large spills or confined areas. Contain spill if possible. Wipe up or absorb on suitable material and shovel up. Prevent entry into sewers and waterways. Avoid contact with skin, eyes, or clothing.

7. HANDLING AND STORAGE

Precautions to be taken in Handling and Storage:

Minimum feasible handling temperatures should be maintained. Periods of exposure to high temperatures should be minimized. Water contamination should be avoided.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective Equipment (Type)**Eye/Face Protection:**

Chemical-type goggles or face shield are recommended to prevent eye contact.

Skin Protection:

Protective clothing such as uniforms, coveralls or lab coats should be worn. Launder or dry-clean when soiled. Gloves and boots resistant to chemicals and petroleum distillates required.

Respiratory Protection:

Airborne concentrations should be kept to lowest levels possible. If vapor, mist, or dust is generated, use respirator approved by MSHA or NIOSH as appropriate. Supplied air respiratory protection should be used for cleaning large spills or upon entry into tanks, vessels, or other confined spaces. See below for applicable permissible concentrations.

Exposure Limit for Total Product:

None established; Potential carcinogen; recommend coal tar pitch volatiles (as benzene soluble) ACHIH-TLV/TWA - 0.2mg/m3.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Dark brown liquid with rather pleasant smell.

Boiling Point Range: 138 deg C (typical)

Percent VOC: N.D.

Specific Gravity: 0.86-0.89 at 15.6 °C (H₂O=1)

Vapor Density: N.D. Air-1

pH Of undiluted product: N.A.

Solubility in Water: Insoluble

Vapor Pressure: N.D.

Viscosity: 2-6 cp @ 70 deg F

Other: Pour Point N.D.

10. STABILITY AND REACTIVITY

This Material Reacts Violently With: (If others is checked below, see comments for details)

Air	Water	Heat	Strong Oxidizers	Others	None of These
			Y		

Comments: Material is stable at elevated temperatures and pressures

Products Evolved When Subjected to Heat or Combustion:

toxic levels of carbon monoxide, carbon dioxide, irritating aldehydes, and ketones.

OCCUR DO NOT OCCUR

Hazardous Polymerization:

Y

11. TOXICOLOGICAL INFORMATION

N.D. Not Determined

N.A. Not Applicable

N.T. Not Tested

TOXICOLOGICAL INFORMATION (ANIMAL TOXICITY DATA)

Median Lethal Dose (LD50 LC50) (Species)

Oral: Similar product 5 g/kg (rat); Causes headache, weakness, and dizziness.

Inhalation: N.D.

Dermal: Similar product 3 g/kg (rabbit); practically non-toxic

Irritation Index, Estimation of Irritation (Species)

Skin: Similar product 3.5/8.0 (rabbit): moderately irritating

Eyes: Similar product 7.7/110 (rabbit): slightly irritating

Sensitization: N.D.

REMARKS:

Toxicological studies with fish and invertebrates are currently in progress.

12. ECOLOGICAL INFORMATION

No data available for this product. The individual components of the product are toxic to aquatic organisms at levels under 10 mg/l.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS

This product has been evaluated for RCRA characteristics and does meet the criteria of a hazardous waste if discarded in its present form. Under RCRA, it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous.

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(Contains Dipentene); PGIII

15. REGULATORY INFORMATION

OSHA	Hazardous by definition of 29 CFR1910.1200 for flammability.
CERCLA	(SARA Title III) Hazard Category – Fire Hazard
RCRA	Classified as RCRA Hazardous waste (flammability characteristic)

16. OTHER INFORMATION

Emergency Contact: INFOTRAC 800-535-5053

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.

THE INFORMATION CONTAINED HEREIN IS BELIEVED TO BE ACCURATE. IT IS PROVIDED INDEPENDENTLY OF ANY SALE OF THE PRODUCT FOR PURPOSE OF HAZARD COMMUNICATION AS PART OF KOSTATECH'S PRODUCT SAFETY PROGRAM. IT IS NOT INTENDED TO CONSTITUTE PERFORMANCE INFORMATION CONCERNING THE PRODUCT. NO EXPRESS WARRANTY, OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS MADE WITH RESPECT TO THE PRODUCT OR THE INFORMATION CONTAINED HEREIN. DATA SHEETS ARE AVAILABLE FOR ALL KOSTATECH PRODUCTS. YOU ARE URGED TO OBTAIN DATA SHEETS FOR ALL KOSTATECH PRODUCTS YOU BUY, PROCESS, USE, OR DISTRIBUTE AND YOU ARE ENCOURAGED AND REQUESTED TO ADVISE THOSE WHO MAY COME IN CONTACT WITH SUCH PRODUCTS OF THE INFORMATION CONTAINED HEREIN. TO DETERMINE APPLICABILITY OR EFFECT OF ANY LAW OR REGULATION WITH RESPECT TO THE PRODUCT, USER SHOULD

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CONSULT HIS LEGAL ADVISOR OR THE APPROPRIATE GOVERNMENT AGENCY. KOSTATECH DOES NOT UNDERTAKE TO FURNISH
ADVICE ON SUCH MATTERS.

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