



**VAROUH OIL INC.**

## **SAFETY DATA SHEET**

### **1. Identification**

Product identifier            Prokote MS

Other means of identification None.

Recommended use            Drilling fluid; Explosives manufacturing

Recommended restrictions None known.

Manufacturer/Importer/Supplier/ Distributor information

Company:                      Varouh Oil Inc.

Emergency Contacts            1-800-222-1222

Chemtrec:                      1-800-424-9300 After Business Hours (North America Only)  
1-703-527-3887 After Business Hours (International)

### **2. Hazard(s) identification**

Physical hazards            Not classified.

Health hazards            Aspiration hazard                      Category  
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Environmental hazards      Not classified.

OSHA defined hazards      Not classified.

Label elements



Signal word                      Danger

Hazard statement            May be fatal if swallowed and enters airways.

Precautionary statement

Prevention                      Do not breathe gas/fumes/vapor/spray.

Response                      IF exposed or concerned: Get medical advice/attention.

Storage                         Store in accordance with local/regional/national/international regulation.

Disposal                         Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. See section 13 of this SDS for disposal instructions.

Hazard(s) not otherwise classified (HNOC) None known.

Supplemental information    None.

### 3. Composition/information on ingredients

#### Substances

Chemical name	Common name and synonyms	CAS number	0/0
DISTILLATES (PETROLEUM), HYDROTREATED MIDDLE		64742-46-7	100

HY

# : date:

### 4. First-aid measures

#### Inhalation

#### Skin contact

#### Eye contact

#### Ingestion

Most important symptoms/effects, acute and delayed

Indication of immediate medical attention and special treatment needed

#### General information

Move to fresh air. Oxygen or artificial respiration if needed. IF exposed or concerned: Get medical advice/attention.

Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse. If skin irritation or an allergic skin reaction develops, get medical attention. Flush thoroughly with water. If irritation occurs, get medical assistance.

Do NOT induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Call a poison control center immediately. Defatting of the skin.

Treat symptomatically.

### 5. Fire-fighting measures

#### Suitable extinguishing media

#### Unusable extinguishing media

#### Specific hazards arising from use chemical

#### Special protective equipment and precautions for firefighters Fire fighting equipment/instructions

Contact physician if discomfort continues.

#### General fire hazards

Halon. Dry chemicals. Foam. Carbon dioxide (CO2). Water spray or fog. Do not use water jet as an extinguisher, as this will spread the fire.

Do not use a solid water stream as it may scatter and spread fire.

No unusual fire or explosion hazards noted.

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

Cool containers exposed to flames with water until well after the fire is out. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boot and in enclosed spaces, SCBA. Use pressurized air mask if product is involved in a fire.

No unusual fire or explosion hazards noted. Flammable/ Class: Combustible 111B

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Methods and materials for containment and cleaning up

Environmental precautions

Large Spills: ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where tiis is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth or absorbent material then place into containers. Following product recovery, flush area with water.

7. Handling and storage

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual containment.

Precautions for safe handling

Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation.

Never return spills in original containers for re-use. For waste disposal, see section 13 of the SDS. Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewer, basement or confined areas. Avoid discharge to the aquatic environment. Conuct local authorities in case of spillage to drain/aquatic environment. Avoid discharge into drains, water courses or onto the ground. If this material is spilled into navigable waters and creates a visible sheen, it is reportable to the National Response Center.

DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands after handling and before eating. Do not get this material in contact with eyes. Avoid contact with skin. Avoid prolonged exposure. All handling to take place in well-ventilated area. Shower after work. Remove and wash contaminated clothing promptly.

Conditions for safe storage, Use including any care in handling/storage. incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Store in a well-ventilated place.

8. Exposure controls/ personal protection

Occupational exposure limits

US, OSHA Table Z-1 Limit for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
DISTILLATES (PETROLEUM), HYDROTREATED MIDDLE (CAS 6474246-7)	PEL	5 mg/m3	Mist.
US. ACGIH Threshold Limit Values Material	Type	Value	Form
Prokote MS	TWA	5 mg/m3	Inhalable fraction.
Component&	Type	Value	Form
DISTIUÄTES (PETROLEUM), HYDROTREATED MIDDLE (CAS 6474246-7)	TWA	5 mg/m3	Inhalable fraction.
US. NIOSH: Pocket Guide to Chemical Material	azards Type	Value	Form
Prokote MS	STEL	10 mg/m3 5 mg/m3	Mist. Mist.
Compo	Type	Value	Form

DISTILLATES (PETROLEUM), HYDROTREATED MIDDLE (CAS 6474246-7)	STEL	10 mg/m3	Mist.
		5 mg/m3	Mist.
Biological limit values	No biological exposure limits noted for the ingredient(s).		
Appropriate engineering controls	Adequate ventilation should be provided whenever the material is heated or mists are generated. Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.		
Individual protection measures, such as personal protective equipment			
Eye/face protection	Goggles/face shield are recommended.		
Skin protection			
Hand protection	Chemical resistant gloves are recommended. If contact with forearms is likely wear gauntlet style gloves.		
Other	Chemical/oil resistant clothing is recommended. Launder contaminated clothing before reuse.		
Respiratory protection	Under normal conditions, respirator is not normally required. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.		
Thermal hazards	Not available.		
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.		

## 9. Physical and chemical properties

Appearance	Clear to cloudy.		
Physical state	Liquid.		
Form	Liquid.		
Color	Colorless.		
Odor	Hydrocarbon-like.		
Odor threshold	Not available.		
pH	date.	415 °F (212.78 °c) ASTM D2887/ ISO 3294	
Melting point/freezing point	263.0 °F (128.3 °c) Cleveland open cup ASTM D92/ ISO 2592		
Initial boiling point and boiling range	Not available.		
Flash point	Not available.		
Evaporation rate	Not available.		
Flammability (solid, gas)	Not available.		
Not applicable	Not available.		
11.12 °F (-11.6 °c) ASTM D5949/ ISO 3016	Not available.		
Upper/lower flammability or explosive limits	Not available.		
Flammability limit - lower (0/0)	Not available.		
Flammability limit upper (%)	Not available.		

Explosive limit - lower (0/0)	Not available.
Explosive limit - upper	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	0.81
Relative density temperature	60 °F (15.56 °C)
Soluble(ies)	
Solubility (water)	Negligible
Partition coefficient (n-octanol/water)	Not established.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	3.36 cSt (104 °F (40 °c) ASTM D2161)

## 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport
Chemical stability	stable.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Heat, flames and sparks. Avoid temperatures exceeding the flash point.
Incompatible materials	Strong oxidizing agene.
Hazardous decomposition produce	Upon decomposition, this product emit carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

## 11. Toxicological information

Information on likely routes of exposure

Inhalation	May be fatal if swallowed and enters airways.
Skin contact	Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis
Eve contact	May be irritating to eyes.
Ingestion	May cause gastrointestinal discomfort if swallowed. Do not induce vomiting. Vomiting may increase risk of product aspiration. May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

Defatting of the skin. Coughing. Shortness of breath. Discomfort in the chest.

Information on toxicological effect

Acute toxicity	Not applicable.
Skin corrosion/irritation	

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Serious eye damage/eye

May cause defatting of the skin, but is neither an irritant nor a sensitizer. Not classified. May cause minor irritation on eye contact.

irritation

## Respiratory or skin sensitization

Respiratory sensitization Not classified.

Skin sensitization Not classified. May cause defatting of the skin, but is neither an irritant nor a sensitizer.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Note N: The classification as a carcinogen need not apply if the full refining history is known and it can be shown that the substance from which it is produced is not a carcinogen.

### IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

### US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity Contains no ingredient listed as toxic to reproduction

Specific target organ Not classified.

toxicity - single exposure

Specific target organ Not classified.

toxicity - repeated

exposure

Aspiration hazard May be fatal if swallowed and enters airways.

Chronic effect Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effect,

Further information Risk of chemical pneumonia after aspiration.

## 12. Ecological information

Ecotoxicity Not expected to be harmful to aquatic organisms.

Persistence and degradability Not inherently biodegradable.

Bioaccumulative potential Bioaccumulation is unlikely to be significant because of the low water solubility of this product.

Mobility in soil

Not available.

Other adverse effects

No other adverse environmental effect (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

Disposal instructions When this product as supplied is to be discarded as waste, it does not meet the definition of a RCRA waste under 40 CFR 261. Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

Hazardous waste code Not applicable.

Waste from residues / unused products Dispose of in accordance with local regulations. Avoid discharge into water courses or onto the ground.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Offer rinsed packaging material to local recycling facilities.

## 14. Transport information

DOT

Not regulated as dangerous goods. IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not available.

Annex 11 of MARPOL 73/78  
and the IBC Code

General information Not regulated as dangerous goods.

### 15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

CERCI-A/SARA Hazardous Substances - Not applicable. TSCA Section 12(b) Export Notification (40 CFR 707, Sup. D)  
Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)  
Not listed.

SARA 304 Emergency release notification  
Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)  
Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance  
Not listed.

SARA 311/312 Yes

Hazardous chemical  
**assified** hazard Aspiration hazard categories

SARA 313 (TRI reporting)  
Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List  
Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

US state regulations This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm. California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (ICC)	Yes



Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by governing country(s)  
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

Issue date	04-28-2014
Revision date	12-11-2018
Version #	02
Further information	Local CHEMTREC Numbers: CHEMTREC Mexico: 1-800681-9531
NFPA ratings	Health: 2 Flammability: 0 Instability: 0
References	ACGIH EPA: ACQUIRE database NLM: Hazardous Substances Data Base US. IARC Monographs on Occupational Exposures to Chemical Agents IARC Monographs. Overall Evaluation of Carcinogenicity National Toxicology Program (NTP) Report on Carcinogens ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices Chemical Abstracts Service Registry Handbook CRC: Handbook of Chemistry and Physics ILO Safety Cards International Labor Organization International Maritime Organization Marine Pollutant List NFPA Hazardous Chemical Data Sheet NIOSH Pocket Guide Registry of Toxic Effects of Chemical Substances (RTE(S)) US DOT Hazardous Materials Regulations
Disclaimer	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
Revision information	Product and Company Identification: Alternate Trade Names Hazard(s) identification: Response Hazard(s) identification: Prevention Hazard(s) identification: Storage Hazard(s) identification: Hazard statement Exposure controls/personal protection: Appropriate engineering controls Physical & Chemical Properties: Multiple Properties Toxicological information: Carcinogenicity

Other information, including date of preparation or last revision: Further information