

# NAPHTHENIC BASE OILS

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# VAROUH OIL



## SAFETY DATA SHEET

### 1. Identification

Product Identifier: Naphthenic Oil  
Synonyms: Pale Oil 100, 1200  
Naphthenic 100, 1200


Recommended Use: Chemical Carrier, Lubricant, Process Oil

Company Identification: Varouh Oil, Inc.  
970 Griswold Road  
Elyria, OH 44035  
440.324.5025

Emergency: CHEMTREC Emergency: 800.424-9300  
Product Info: 440.324.5025  
SDS Request: [varouhoil.com](http://varouhoil.com)

### 2. Hazard(s) Identification

Physical Hazards: Not classified.  
Health hazards: Aspiration hazard  
Environmental hazard: Not Classified Not  
OSHA defined hazard: Classified  
Label element:



Signal word: Danger

Hazard Statement: May be fatal if swallowed and enters airways.

Prevention: Do not breathe gas/mist/vapors/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 regulation, and product characteristics at time of disposal. See Section 13 of this SDS for disposal instructions.

Hazard(s) not otherwise Classified (HNOC):

Supplemental information: None

### 3. Composition/ information on ingredients

Components	CAS Number		% Composition
Distillates, Hydrotreated Light Naphthenic	64742-53-6 64742-52-5		100%

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## 4. First Aid Measures

- Inhalation:** If irritation, headache, nausea or drowsiness occurs, remove to fresh air. Get medical attention if breathing becomes difficult or symptoms persist.
- Ingestion:** If swallowed, observe for signs of stomach discomfort or nausea. If symptoms persist, give two glasses of water and get medical attention. Do not induce vomiting.
- Skin:** Wash skin thoroughly with soap and water for several minutes. If skin irritation develops or persists, get medical attention.
- Eyes:** Flush eyes with plenty of water for several minutes. If irritation or redness persists, get medical attention.

## 5. Fire Fighting Measures

### Flammable Properties:

Flash Point (Cleveland Open Cup):	154°C (310°F)
Auto Ignition Temperature:	> 315°C (> 600°F)
Lower Explosive Level (LEL):	Not Determined
Upper Explosive Level (UEL):	Not Determined
Flammability Classification:	OSHA Class III-B Combustible Liquid, 29 CFR 1910.106(a)

### Extinguishing Media:

Dry chemical, foam, CO<sub>2</sub> and water mist or fog. Water may be used to cool below flash point. Do not use forced stream as this could cause fire to spread. Class ABC fire extinguisher

### Combustion Products/ Specific Hazards:

Highly dependent on combustion conditions. A mixture of airborne solids, liquids and gases including smoke, fumes, carbon monoxide, carbon dioxide and unidentified organic compounds will be evolved when this material undergoes combustion.

### Fire Fighting/ Instructions and Equipment:

This material will burn although it is not easily ignited. For fires involving this material, do not enter any enclosed or confined spaces without proper protective equipment. Firefighting personnel should wear respiratory protection and flame retardant clothing, (positive pressure if available).

**General fire Hazard:** No unusual fire or explosion hazards noted. Flammability Class: Combustible IIIB

## 6. Accidental Release Measures

**Spill Management:** Eliminate all sources of ignition in the area of the spilled material. Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations. Report spills to local authorities and/or the US Coast Guard's National Response Center at (800) 424-8802 as appropriate or required.

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## 7. Handling and Storage

### Handling and Storage Precautions:

Product should be stored in a clean dry container at ambient temperature. Product should remain stable for prolonged periods. Keep away from flames, sparks or hot surfaces. Never use a torch to cut or weld on or near container. Empty oil containers can contain explosive vapors and may be dangerous. Empty drums should be completely drained, properly bunged and promptly disposed of in an environmentally safe manner and in accordance with all governmental regulations. NFPA Class III-B storage. Wash hands with soap and water before eating, drinking, smoking or use of restrooms. Do not use gasoline, solvents, kerosene or abrasive skin cleaners for washing exposed skin areas. Do not wear contaminated clothing or shoes. Use good personal hygiene practices.

## 8. Exposure Controls and Personal Protection

Components	CAS Number	OSHA		ACGIH	
		TWA	STEL	TWA	STEL
Distillates, Hydrotreated Light Naphthenic	64742-53-6				
	64742-52-5	5mg/m <sup>3</sup> (oil mist)	NA	5mg/m <sup>3</sup> (oil mist)	10mg/m <sup>3</sup> (oil mist)

### Engineering Controls:

Adequate ventilation is required where excessive heating or agitation may occur to maintain concentration below permissible exposure limits (see above).

### Eye/Face Protection:

Approved eye protection is recommended to safeguard against potential eye contact, irritation or injury. Depending on conditions, a face shield may be necessary.

### Skin Protection:

Workers should wash exposed skin several times daily with soap and water. Contaminated clothing should be laundered at least weekly. Solvent resistant gloves may be worn if needed.

### Respiratory Protection:

Airborne concentrations should be kept to lowest levels. If vapor (oil mist) is generated, use respirator approved by OSHA or NIOSH as appropriate. Positive pressure air-supplying regulator should be used for cleaning large spills or upon entry into tanks, vessels or other confined spaces.

## 9. Physical and Chemical Properties

Appearance	Clear & bright
Physical state	Liquid.
Form	Liquid.
Color	Light Amber to Golden
Odor	Mild Petroleum Odor
Odor threshold	Not available.
pH	Not applicable

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<b>Initial boiling point and boiling range</b>	> 435 °F (> 223.89 °C) ASTM D 2887
<b>Flash point</b>	> 310.0 °F (> 154 °C) Cleveland Open Cup ASTM D 92
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.

## Upper/lower flammability explosive limits

<b>Flammability limit - lower</b> (%)	Not determined
<b>Flammability limit - upper</b> (%)	Not determined
<b>Explosive limit - lower</b> %	Not determined
<b>Explosive limits - upper</b> %	Not determined

<b>Vapor pressure</b>	Not determined
<b>Vapor density</b>	>5
<b>Relative density</b>	7.41 (20.0 C) ASTM D 4052
<b>Solubility (ies)</b>	
<b>Solubility (water)</b>	Insoluble
<b>Partition Coefficient (N-octanol/water)</b>	Not established.
<b>Auto - ignition temperature</b>	>600 F (>315.56 C) ASTM E 659
<b>Decomposition temperature</b>	Not determined
<b>Viscosity</b>	19.50 cSt (40 C) ASTM D 445

## Section 10 Stability and Reactivity

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

## 11. Toxicological Information

### Information on likely routes of exposure

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

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## Symptoms related to the physical, chemical and toxicological characteristics

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

## Information on toxicological effects:

### Acute toxicity

not applicable

### Skin corrosion/irritation

may cause defatting of the skin, but is neither an irritant nor a sensitizer

### Serious eye damage/ Eye irritation

Not classified. May cause minor irritation on eye contact.

### Respiratory or skin sensitization

#### Respiratory sensitization Skin sensitization

Not classified.

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 Nota L - Meets EU requirements of less than 3% (w/w) DMSO extract for total Polycyclic aromatic compound (PAC) using IP346. Not classified

### Reproductive toxicity

contains no ingredient listed as toxic to reproduction

### Specific target organ toxicity - single exposure

not classified

### Specific target organ toxicity - repeated exposure

not classified.

### Aspiration hazard chronic effect

May be fatal if swallowed and enters airways. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

### 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 effects (e.g. ozone depletion, photochemical Ozone creation potential, endocrine disruption, global warming potential) are expected from this component

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## 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 residue / the unused products

Disposal of in accordance with local regulations. Avoid discharge into water courses or onto ground.

### Contaminated packaging

Empty container 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 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 Annex II of Marpol 73/78 and the IBC Code

Not Available

## 15. Regulatory Information

### U.S. Federal Regulations

This product is not known to be 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.

CERCLA/SARA hazardous Substances - Not applicable

### TSCA Section 12 (b) Export Notification (40 CFR 707, Subpt. D)

Not regulated. CERCLA

### hazardous Substance List (40 CFR 302.4)

Not Listed. US. OSHA Specifically Regulated

### Substances (29 CFR 1910.1001-1050)

Not Listed

### Superfund Amendment and Reauthorization Act of 1986 (SARA)

#### Hazard categories

Immediate Hazard - Yes  
Delayed Hazard - No Fire  
Hazard - No Pressure  
Hazard - No Reactivity  
Hazard - No

### SARA302 Extremely hazardous substance

Not listed.

### SARA 311/312 Hazardous chemical

Yes

SARA 313 (TRI reporting): Not regulated.

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## Other federal regulations

### Clean Air Act (CCA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated. Clean Air Act (CAA) Section 112®

### 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.

US. Massachusetts RTK - Substance List

Not regulated. US. New Jersey

Worker and Community Right- to Know Act

Not regulated. US.

Pennsylvania RTK - Hazardous Substances

Not regulated.

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

Not Listed.

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International Inventories	Inventory Name	On inventory (yes/no)*
Country(s) or region	Australian inventory of Chemical Substances (AICS)	Yes
Australia	Domestic Substances List (DSL)	Yes
Canada	Non- Domestic Substances List (NDSL)	No
Canada	Inventory of Existing Chemical Substances in China (IECSC)	Yes
China	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Europe	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Japan	Existing Chemicals List (ECL)	Yes
Korea	New Zealand Inventory	Yes
New Zealand	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Philippines		Yes
	United States/Puerto Rico Toxic Substances Control Act (TSCA) Inventory	

\*A "Yes" indicates that all components of this produce comply with the inventory requirements administered by the 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

### References:

ACGIH  
EPA: AQUIRE Data Base  
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 Labour Organization  
International Maritime Organization Marine Pollutants List  
NFPA Hazardous Chemical Data Sheets  
NIOSH Pocket Guide  
Registry of Toxic Effects of Chemical Substances (RTECS)  
US DOT Hazardous Materials Regulations

### Disclaimer of Expressed and Implied Warranties:

The information presented in this Safety Data Sheet is based on data believed to be accurate at the time this Safety Data Sheet was prepared. However, no warranty of merchantability, fitness for any particular purpose or any other warranty is express or is to be implied regarding the accuracy or completeness of the information provided above, the results to be obtained from the use of this information, the safety of this product or the hazards related to its use. No responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices. The information provided above, and the product, are furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use.