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

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

Hazard Statement
May be fatal is 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

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS Number</th>
<th>% Composition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates, Hydrotreated Light</td>
<td>64742-53-6</td>
<td></td>
</tr>
<tr>
<td>Naphthenic</td>
<td>64742-52-5</td>
<td>100%</td>
</tr>
</tbody>
</table>
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 persist, 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, CO2 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.
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

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS Number</th>
<th>OSHA</th>
<th>ACGIH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates, Hydrotreated Light Naphthenic</td>
<td>64742-53-6</td>
<td>TWA: 5mg/m³</td>
<td>TWA: 5mg/m³</td>
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<tr>
<td></td>
<td>64742-52-5</td>
<td>STEL: NA</td>
<td>STEL: 10mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(oil mist)</td>
<td>(oil mist)</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear &amp; bright</td>
</tr>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Light Amber to Golden</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild Petroleum Odor</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available.</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>
Initial boiling point and boiling range Flash point
> 435 °F (> 223.89 °C) ASTM D 2887
> 310.0 °F (> 154 °C) Cleveland Open Cup ASTM D 92
Evaporation rate
Not available.
Flammability (solid, gas)
Not available.

Upper/lower flammability explosive limits
Flammability limit - lower (%)
Not determined
Flammability limit - upper (%)
Not determined
Explosive limit - lower (%)
Not determined
Explosive limits - upper (%)
Not determined

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

Section 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. Strong oxidizing agents.

Incompatible materials
Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight Hydrocarbons.

11. Toxicological Information

Information on likely routes of exposure

Ingestion
May cause gastrointestinal discomfort if swallowed. Do not induce vomiting. Vomiting may increase risk of product aspiration. May be fatal if swallowed.

Inhalation
May be fatal if enters airways.

Skin contact
Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis

Eye contact
May be irritating to eyes.
Symptoms related to the physical, chemical and toxicological characteristics


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
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. 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
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 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
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.
Other federal regulations

- Clean Air Act (CCA) Section 112 Hazardous Air Pollutants (HAPs) List
  Not regulated.
- 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.
# NAPHTHENIC BASE OILS

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<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory Name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDLS)</td>
<td>No</td>
</tr>
<tr>
<td>Canada</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>China</td>
<td>European Inventory of Existing Commercial Chemical Substances</td>
<td>Yes</td>
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<tr>
<td>Europe</td>
<td>(EINECS)</td>
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<tr>
<td></td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
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<tr>
<td>Europe</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>Yes</td>
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<tr>
<td>Japan</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
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<tr>
<td>Korea</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
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<tr>
<td>New Zealand</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Philippines</td>
<td></td>
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</tr>
</tbody>
</table>

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 implies 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.