

SAFETY DATA SHEET (SDS)

This material is to be used for research purposes only under the supervision of a technically qualified individual. The toxicological properties may have not been completely characterized. Please determine your responsibilities under your local regulations.

1. Identification of the substance or mixture and of the supplier

Identification

Product Name: Oil Fotifier

Recommended use and restriction on use

Recommended use: Anti-wear additive.

Details of the supplier of the safety data sheet

Supplier

Company name: Opti-Lube
Address: 1195 S 1680 W
Orem, UT 84058
USA
Telephone: 801-491-3717

Emergency telephone number:

During normal open hours: +1 (801) 491-3717

2. Hazard(s) identification

2.1 Classification of the substance or mixture

Hazardous to the aquatic environment - acute hazard (chapter 4.1), Cat.
Hazardous to the aquatic environment - long-term hazard (chapter 4.1), Cat. 1
Aspiration hazard (chapter 3.10), Cat. 2

2.2 GHS label elements, including precautionary statements

Pictograms



Signal Word

Warning

Hazard statements

H362 May cause harm to breast-fed children
H402 Harmful to aquatic life
H410 Very toxic to aquatic life with long lasting effects
H305 May be harmful if swallowed and enters airways

Precautionary statement(s)

P273 Avoid release to the environment
P501 Dispose of contents/container in accordance with local, regional, national, and international regulations.
P391 Collect spillage.
P310 + P310 IF SWALLOWED: Immediately call a POISON CENTER, get medical attention.
P405 Store locked up.

P401 Store away from incompatible materials
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

2.3 Other hazards which do not result in classification

3. Composition/Information on Ingredients

3.1 Substances

Hazardous components

1. Paroil 54nr, Alkanes, c14-16, chloro

Concentration 44 - 45% (weight)
CAS no. 63449-39-8

2. 45 Cal, Not a Hazardous Substance or Mixture

Concentration 39 - 40% (weight)
CAS no. 64742-53-6

4. First-aid measures

4.1 Description of first aid measures

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. Consult a physician.

Eye Contact: Rinse opened eye for 15 minutes under running water. See physician if symptoms occur.

Skin Contact: Remove contaminated clothing immediately. Wash with soap and plenty of water. Consult a physician if symptoms occur.

Treatment: Treat symptomatically.

4.2 Most important symptoms/effects, acute and delayed.

Direct contact with eyes may cause temporary irritation.

4.3 Indication of immediate medical attention and special treatment needed, if necessary.

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

5. Fire-fighting measures

- 5.1 Suitable extinguishing media:** Water fog, foam, CO₂, dry chemical powder. Do not use water jet as an extinguisher, as this will spread the fire.
- 5.2 Specific hazard arising from chemical** During fire, gases hazardous to health may be formed.
- 5.3 Advice for firefighters, Special protective equipment and precautions for firefighters:** Wear self-contained breathing apparatus and full protective clothing for firefighting if necessary. Move containers from fire area if you can do so without risk. Use standard firefighting procedures and consider the hazards of other involved materials. No unusual fire or explosion hazard.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. Contact local authorities in case of spillage to drain/aquatic environment.

6.3 Methods and materials for containment and cleaning up

SMALL SPILLS: Contain and absorb with absorbent material and place into containers for later disposal. Wash site of spillage thoroughly with water. LARGE SPILLS: Dike far ahead of spill to prevent further movement. Recover by pumping or by using a suitable absorbent material and place into containers for later disposal. Dispose in suitable waste container.

7. Handling and Storage

7.1 Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Provide adequate ventilation. Should be handled in closed systems, if possible. Pregnant or breastfeeding women must not handle this product. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

7.2 Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container. Store away from incompatible materials

8. Exposure Controls/personal Protection

8.1 Control parameters

1. 45 Cal (CAS: 64742-53-6)

PEL: 5mg/m³ (oil mist) (OSHA)

2. 45 Cal (CAS: 64742-53-6)

TLV[®]: 5mg/m³ (oil mist) (ACGIH)

8.2 Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should controls be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Safety glasses with side shields.

Skin protection

Use of an impervious apron is recommended.

Body protection

Use of an impervious apron is recommended.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form	Oily, Liquid
Odor	Slight
Odor threshold	Not available
pH	Not available
Melting point/freezing point	Not available
Initial boiling point and boiling range	Not available
Flash point	>450.0 deg F (>232 deg C) Cleveland Closed Cup
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Upper/lower flammability limits	Not available
Upper/lower explosive limits	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	1.061
Solubility(ies)	Not available
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not available
Oxidizing properties	Not available

10. Stability and reactivity

10.1 Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

10.2 Chemical stability

Material is stable under normal conditions.

10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Avoid temperatures exceeding the flash point. Contact with incompatible materials.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Irritating and/or toxic fumes and gases may be emitted upon the products decomposition. Carbon products oxides. Hydrogen chloride gas.

11. Toxicological Information

Information on toxicological effects

Acute toxicity

Not available.

Skin corrosion/irritation

No adverse effects due to skin contact are expected.

Serious eye damage/irritation

Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

No adverse effects due to inhalation are expected.

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

Reproductive toxicity

May cause harm to breastfed babies.

STOT-single exposure

Not classified

STOT-repeated exposure

Not classified

Aspiration hazard

Not classified

12. Ecological Information

Toxicity

Very toxic to aquatic life with long lasting effects. Harmful to aquatic life.

Persistence and degradability

No data is available on the degradability of this product

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

No data 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.

13. Disposal considerations

Disposal of the product

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations local/regional/national/international regulations

Disposal of 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.

14. Transport Information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15. Regulatory Information

15.1 Safety, health and environmental regulations specific for the product in question

Toxic Substances Control Act (TSCA) Inventory

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

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed

SARA 304 Emergency release notification

Not regulated

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not Listed

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories: Immediate Hazard - No, Delayed Hazard - No, Fire Hazard- No, Pressure Hazard - No, Reactivity Hazard - No.

SARA 302 Components

Not Listed

SARA 313 Components

Not regulated

Clean Air Act (CAA) Section 112 and 112r Hazardous Air Pollutants (HAPs) list, Accidental Release Prevention (40 CFR 68.130)

Not regulated

Safe Drinking Water Act (SDWA)

Not regulated

US New Jersey Worker and Community Right-to-Know Act

Alkanes, C14-16, Chloro (CAS 63449-39-8)

US Rhode Island RTK

Alkanes, C14-16, Chloro (CAS 63449-39-8)

US California Proposition 65

This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins

Australia

Australian Inventory of Chemical Substances (AICS), On Inventory, Yes - Alkanes, C14-16, Chloro (CAS 63449-39-8)

Canada

Domestic Substances List (DSL), On Inventory, Yes - Alkanes, C14-16, Chloro (CAS 63449-39-8)

China

Inventory of Existing Chemical Substances in China (IECSC), On Inventory, Yes- Alkanes, C14-16, Chloro (CAS 63449-39-8)

Europe

European Inventory of Existing Commercial Chemical Substances (ELINECS), On Inventory - Yes, European List of Notified Chemical Substances (ELINCS) On Inventory, No - Alkanes, C14-16, Chloro (CAS 63449-39-8)

Japan

Inventory of Existing and New Chemical Substances (ENCS), On Inventory, Yes- Alkanes, C14-16, Chloro (CAS 63449-39-8)

Korea

Existing Chemicals List (ECL), On Inventory, Yes - Alkanes, C14-16, Chloro (CAS 63449-39-8)

New Zealand

New Zealand Inventory, On Inventory, Yes - Alkanes C14-16, Chloro (CAS 63449-39-8)

Philippines

Philippine Inventory of Chemicals and Chemical Substances (PICCS), On Inventory, Yes - Alkanes, C14-16, Chloro (CAS 63449-39-8)

United States and Puerto Rico

Toxic Substances Control Act (TSCA) Inventory, On Inventory, Yes - Alkanes, C14-16, Chloro (CAS 63449-39-8)

15.2 Chemical Safety Assessment

It has not been carried out.

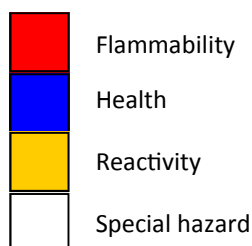
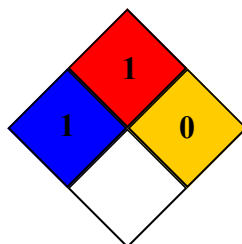
Caution: HMIS ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks although HMIS ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS ratings are to be used with a fully implemented HMIS program. HMIS is a registered mark of the National Paint and Coatings Association (NPCA).

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Copyright 2001 National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fir, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Health	1
Flammability	1
Reactivity	0

PERSONAL PROTECTION B





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

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

16.1 Further information/disclaimer

The data contained herein is drawn from recognized sources and believed to be accurate as the date of issue. This information is intended for use by persons who have or should obtain professional knowledge and experience in the subjects discussed, and is presented only for your evaluation of the suitability of this product for your use, and for compliance with Federal and State regulations. The manufacturer makes no warranty, express or implied, and disclaims all liability for the accuracy, completeness, and reliability of any information contained herein.

Department issuing SDS: Technical Department
Contact: sales@opti-lube.com or 801-491-3717
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