

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: ULTIMATE Grease
SKU OPT-UG

Relevant identified uses of the substance or mixture and uses advised against

Product Use: Industrial grease
Uses advised against: This product must not be used in applications other than recommended in section 1 without making the advice from supplier/manufacturer.

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

Classification of the substance or mixture

The product is not classified according to the Globally Harmonized System (GHS).

OSHA Hazard Communication Standard: This material is not considered hazardous in accordance with OSHA HazCom 2012, 29 CFR 1910.1200

Label Elements

Other hazards

No Significant hazard as per GHS

Health hazards

Not expected to be a health hazard when used under normal conditions. Prolonged or repeated skin contact without proper cleaning may clog the skin pores resulting disorders like acne/folliculitis. Used grease may contain harmful impurities/ harmful extraneous substances.

Safety hazards:

Not classified as flammable but will burn

Environmental hazard:

Not classified as environmental hazard under GHS criteria

Precautionary statements:

Prevention:

Wear protective gloves while handling. Wear eye and face protection. Wash hands thoroughly after handling

Response:	If on skin, wash with plenty of soap and water. Remove contaminated cloth and wash thoroughly before use. If skin irritation occurs, get medical advice. If in eyes, wash with water for several minutes, in case of contact lenses, remove and wash with plenty water. In case of irritation, get medical attention.
Storage:	Store the product in well-ventilated area. Keep the container straight lid upside. Do not lay down upside down or do not keep container horizontally. This product has natural tendency to squeeze oil if not kept properly.
Disposal:	Take expert advice of local regulatory agency for disposing this product.
Hazards not otherwise classified (HNOC):	None as classified under 29 CFR 1900.1200

3. Composition/Information on Ingredients

This material is defined as mixture and has no known hazards under GHS classification .

Additional information:	As per 29 CFR 1910.1200 paragraph (i), formulation is considered as trade secret and therefore specific chemical names and their percentages of components used have not been disclosed. The details about their specific chemical names and their percentages may be provided on request to health professionals, authorized representatives of regulatory authority, employees concerned in accordance with applicable provisions of this paragraph.
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4. First-aid measures

Description of first aid measures

General information:	Not expected to be health hazard if used under normal conditions
Inhalation	Under normal conditions of intended use, this material is not expected to be inhalation hazard. If some symptom exist, remove to fresh air. If not breathing, give artificial respiration. Get medical attention
Skin Contact:	Remove contaminated clothes. Flush exposed area with plenty of water followed by washing by soap, if available. If persistent irritation occurs, obtain medical attention. If product is injected into or under the skin due to any reason, the victim, regardless of size or appearance of wound, victim should be brought immediately to medical attention for emergency surgical needs. Though the initial symptoms due to high pressure injection may be minimal /absent, early surgical treatment may significantly reduce the extent of injury.
Eye Contact:	Immediately flush with large quantities of cool water for at least 15 minutes. Get medical attention.
Ingestion:	In general no treatment is necessary unless large quantities are swallowed, however, it's advisable to take medical attention. Do not induce vomiting unless directed by medical personnel. Do not give anything by mouth by an unconscious person.
Self-protection for first aider:	When administering the first aid, ensure that you are wearing the appropriate personal protective equipment according to the incident, injury and surroundings.

5. Fire-fighting measures

Extinguishing Media:

Suitable extinguishing media: Water Spray (fog), dry chemical, foam, or carbon dioxide, sand to extinguish flames.

Unsuitable extinguishing media: Water stream may splash burning liquid and spread fire

Specific hazard arising from the substance or mixture: Hazardous combustion product may include a complex mixture of airborne solid and liquid particulates and gases (smoke), carbon monoxide, unidentified inorganic and organic compounds.

Advice for firefighters, Special protective equipment and precautions for firefighters: Proper protective equipment include chemical resistant gloves to be worn, chemical resistant suit is recommended when large contact with spill product is expected. Selfcontained breathing apparatus (SCBA) must be worn when approaching a fire in confined area. Select the fire fighters clothing approved by relevant standard

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Do not touch and walk through spill area. Do not touch damaged container or spilled material unless wearing appropriate protective clothing/equipment. Ventilate the closed area.

Emergency procedures: Isolate the spill / leak area in all directions for about 50 meters (150 ft) for liquids and about 25 meters (75 ft.) for solids and semi-solids. Eliminate all ignition sources (no smoking, flares, sparks / flames in close vicinity). Keep unauthorized person away and ventilate closed space before entering.

Environmental procedures: Use appropriate measures for containment of spilled material to the environment. Prevent from entering/ spreading to drain, water, river, ditches by using sand, earth, floor dryers or other appropriate barriers.

Methods and material for containment and cleanup:

Shovel into suitable properly marked container for disposal or reclamation in accordance with local regulations.

References to other sections: Refer to section 8 – exposure control / personal protection and section 13- disposal considerations

7. Handling and Storage

General Precautions Store in well-ventilated area, if risk on vapor inhalation is there. Use the information in this data sheet as input for risk management arising due to local conditions which help to manage safe handling of this product.

Precautions for safe handling: Avoid prolonged and repeated contact with skin. Avoid inhaling the vapors/ mist. When handling the drums, kegs, pails etc., proper safety shoes, and other protective clothes, safety glasses etc. should be worn. Dispose appropriately any contaminated rags/material as per prevailing local allowable practices. Keep containers in closely tight and, cool and well ventilated areas.

Conditions for Safe Storage, Including Any Incompatibilities:

Keep containers tightly close, well-ventilated areas but covered, avoiding contact with rain or other water ingress possibilities. Keep the storage place cool preferably <120° F/<50° C. Higher temperature may create pressure buildup inside container and chances of container busting or leakage may occur under aggravated conditions. Keep away from other oxidizing and incompatible materials.

Specific End Use(s):

This material should not be used for any other purpose than the intended use as per section 1 without the expert advice.

8. Exposure Controls/personal Protection

Control Parameters:

Components with Limit Values That Require Monitoring at the Workplace:

Material	Source	Type	PPM	Mg/m3	Notation
Mineral oil mist	TWA(mist), ACGIH	Ceiling		5.0mg/m3	

Additional Information:

Due to semi-solid nature of the product, generation of mist and dusts is unlikely to occur.

Biological Exposure Index (BEI):

No biological limit allocated

PNEC Related Information:

Data not available

Monitoring Methods:

Monitoring of the concentration of substances in the breathing zone of workers or in general workplace may be required to confirm the compliance with local governing authority.

Engineering Measures/Controls:

Adequate ventilation systems may be needed to control concentrations of airborne contaminants above permissible threshold applicable limits.

Personal Protective Equipment:



Respiratory:

In case of insufficient ventilation, use suitable respiratory equipment .

Eyes/Face:

Wear safety goggles

Skin/Body:

Wear safety shoes and protective gloves

Environmental Exposure Controls: Minimize release to the environment. Follow best practices for site management and disposal of waste as per local regulations .

9. Physical and chemical properties

Information on Basic Physical and Chemical Properties

Appearance

Form: Semi-Solid
Color: Green
Odor: Slightly hydrocarbon
Odor Threshold: No data available.

General Properties

Boiling Point No data available.
pH Not applicable.

Specific Gravity (15 ° C):	0.87, 7.506 (lbs/gal)
Flash Point, COC, ° F/° C:	400/204
Upper/Lower Flammability Limits:	No data available
Auto-Ignition Temperature:	No data available
Flammability:	No data available
VOC, % wt., ASTM D-972:	1
Vapor Pressure at Ambient Temp.:	<0.13 kPa (<1 mmHg)
Vapor Density (air=1):	<1
Explosive Properties:	Not classified
Oxidizing Properties:	No data available

Other Information

Electrical Conductivity:	Though no data available, this material is not expected to be a static accumulator.
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10. Stability and reactivity

Reactivity:	No reactivity is expected under normal conditions of intended use. However, under high temperature or adverse operating conditions thermal / chemical decomposition of the product may be possible .
Chemical Stability:	No hazardous reaction is expected under normal conditions of temperature and pressure
Possibility of Hazardous Reactions:	Hazardous polymerization is not expected. Reacts with strong oxidizing agents.
Conditions to Avoid:	Extreme temperature and direct sunlight / heat /flame
Incompatible Materials:	Strong oxidizing agents
Hazardous Decomposition Products:	Hazardous decomposition is not expected to form under normal conditions of storage

11. Toxicological Information

Information on Likely Routes of Exposure

Basis of Assessment:	Information given hereby is based on the components and the toxicology of similar products and the data indicated here are representative of mainly base oil which is present in majority
Acute Oral Toxicity:	Expected to be low toxicity ; LD 50 (rat) > 5000 mg/kg (literature)
Acute Dermal Toxicity:	Expected to be low toxicity ; LD 50 (rat) > 3000 mg/kg (literature)
Acute Inhalation Toxicity:	Not determined
Skin Corrosion/Irritation:	Expected to be slightly irritating . prolonged/repeated contact with skin without adequate cleaning may clog the pores of the skin , may result disorder such as oil acne/folliculitis
Serious Eye Damage/Irritation:	Expected to be slightly irritating
Respiratory/Skin Sensitization:	Not determined
Aspiration Hazard:	Not determined
Germ Cell Mutagenicity:	Not determined
Carcinogenicity:	Not considered to be carcinogenic as it contain severely hydrotreated mineral oils which are reported to be noncarcinogenic in lab animal studies. The class of oils used in making this product are not classified as carcinogenic by IARC

Carcinogenic Classification

**Highly refined base oil blend
(IP 346 <3%)**

ACGIH group A4 ; not classified as human carcinogen

IARC 3 ; not classified as to carcinogen to humans

GHS / CLP , no carcinogenicity classification

Based on raw material suppliers information/SDS, this material is not known to contain any chemical listed as carcinogen or suspected carcinogen by OSHA Hazard Communication Standard 29CFR 1910.1200, IARC, or the National Toxicology Program (NTP).

12. Ecological Information

Basis of assessment

Eco-toxicological data has not been determined specifically on this product. The information given herewith are based on the information given on eco-toxicity of components and/or on similar products. the information given here are representative of the product as whole and not as individual components

Toxicity

Sparingly soluble mixture in aqueous media. Not toxic to fish but may coat gill structure and cause suffocation if spilled. This product may cause gastrointestinal distress in birds and mammals through ingestion.

Persistence and degradability:

Expected to be not readily biodegradable. The major oil component expected to biodegrade over period of 100-120 days in aerobic environment at temperature above 70 F (21 °C), however finished product contain component that may persist in the environment.

Bioaccumulative potential:

May contain component that bioaccumulate

Mobility in soil:

Product is semi-solid in nature in most conditions and may absorb to soil and may not be mobile. It floats on water

Other adverse effects

Product contain the components that have been classified non-volatile in nature and therefore not expected to release to environment in significant quantities.

13. Disposal considerations

Waste Treatment Methods:

Try to minimize the product waste by using best applicable practives. It is the responsibility of the waster generator to evaluate the waste classification and appropriate disposal methodology in accordance with the applicable regulation.

Product Disposal:

Do not dispose into environment, in drain or in river/ponds/water reservoirs.

Container Disposal:

To be disposed in accordance with local prevailing and allowable regulations.

14. Transport Information

UN - Number	DOT, ADN, IMDG, IATA	Not required.
UN proper shipping name	DOT, ADN, IMDG, IATA	Not required.
Transport hazard class(es)	DOT, ADN, IMDG, IATA	
Classes		Not required.
Packing group	DOT, IMDG, IATA	Not required.

Not classified as hazardous product for land, sea and air transport.

15. Regulatory Information

OSHA Hazard Communication Standard: This Material is not considered hazardous in accordance with OSHA HAZCom 2012,29 CFR 1910.1200.

TSCA (toxic substance control act) Inventory List: All ingredients are listed.

SARA Ext Haz. Sub.: This substance does not contain > 1.0 % of any chemical substance on SARA extremely hazardous substance list

SARA 313: This product doesn't contain > 1.0 % (> 0.1 % for carcinogenic substance) of any chemical substances listed under SAR 313

Classification: Immediate (acute) health hazard, delayed (chronic) health hazard

Component	Fire Hazard	Sudden Release of Pressure	Reactive	Acute Health Hazard	Delayed Health Hazard
Base Oil	No	No	No	No	Yes
Calcium Dodecyl Benzene Sulfonate	No	No	No	Yes	Yes

Cal Prop 65: This product doesn't intentionally contain any chemical known by state of California to cause cancer and/or birth defects.

WHMIS: This product is not a controlled product.

Canadian NPRI: None of the components are listed CEPA toxic substance: none of the components are listed.

Canadian (NDSL): All components are listed.

Australia Inventory (AICS) : All components are listed or exempted .

China Inventory (IECSC) : All components are listed Japan Inventory All components are listed or exempted.

Korea Inventory: All components are listed.

Malaysia Inventory (EHS Register): Not determined.

New Zealand inventory of Chemicals (NZIoC): All components are listed or exempted .

Philippines Inventory (PICCS): All components are listed or exempted.

Taiwan Inventory (CSNN): Not determined.

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.

	NFPA 704	HMIS	KEY
Health	1	0	0 = Minimal
Fire	1	1	1 = slight
Reactivity	0	0	2 = Moderate
Specific	None	N/A	3 = Serious

This safety data sheet contains the following revisions:

Department issuing SDS: Technical Department
Contact: sales@opti-lube.com or 801-491-3717
Date of preparation / last revision: 10/27/2016

Abbreviations and acronyms:

- ADR:** Accord europeen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG:** International Maritime Code for Dangerous Goods.
- DOT:** US Department of Transportation.
- IATA:** International Air Transport Association.
- ACGIH:** American Conference of Governmental Industrial Hygienists.
- EINECS:** European Inventory of Existing Commercial Chemical Substances.
- ELINCS:** European List of Notified Chemical Substances.
- CAS:** Chemical Abstracts Service (division of the American Chemical Society).
- NFPA:** National Fire Protection Association (USA).
- HMIS:** Hazardous Materials Identification system (USA).
- LC50:** Lethal concentration, 50 percent.
- LD50:** Lethal dose, 50 percent.

***Data compared to the previous version altered.**

Opti-Lube believes that the information and recommendations given hereby is reported information based on the components and or similar products. The data indicated here are representative of the product as a whole rather than for individual components. No warranty of fitness, warranty of merchantability or any other warranty, expressedd