

SAFETY DATA SHEET



MEGALUBE UHT GREASE

Revision C

Effective Date: 01/02/2024

Regulation: 1907/2006/EC, In accordance with the provisions of Article 41, Industrial Safety & Health Act. OSHA Hazard Communication Standard (29 CFR 1910.1200).

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 PRODUCT IDENTIFIER

Material Name:

MEGALUBE UHT GREASE

Product Code:

600-6730010

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Product Use:

High Temperature Grease

Uses Advised Against:

This product must not be used in applications other than those recommended in Section 1, without first seeking the advice of the supplier.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Manufacturer/Supplier:

Mega-Lab Manufacturing Co. Ltd. 3-25 Planchet Road, Concord, Ontario, Canada L4K 2C5

Telephone: (905) 532-9000

Fax: (905) 532-9003

Email Contact for Safety Data Sheet:

info@mega-lab.com

1.4 EMERGENCY TELEPHONE NUMBER

(905) 532-9000 Mon. to Fri. 8:30am – 4:00pm

2. HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

EC No. 1272/2008 (CLP)	
Hazard Characteristics	R-phrases(s)
Not classified	

2.2 EC LABEL ELEMENTS

Label the ingredients according to Regulation (EC) No. 1272/2008

Hazard Statements:

EUH210: Safety data sheet provided upon request

2.3 OTHER DANGERS

Physical Hazards:

No significant hazards

Health Hazards:

High pressure injection under the skin can cause gum, skin or respiratory irritation. High pressure injection under the skin can cause serious injury. Excessive exposure may cause eye, skin or respiratory irritation.

Environmental Hazards:

No significant hazards, the substance does not meet the PBT or vPvB criteria according to REACH Annex XIII.

Hormone disrupting properties:

Does not contain any substance/substances known to have endocrine-disrupting properties.

4. COMPOSITION AND INFORMATION ON THE INGREDIENTS

3.1 SUBSTANCE

Material Name:

Not applicable.

3.2 MIXTURES

Mixture Description:

This material is defined as a mixture

Reportable hazardous compounds that comply with classification criteria and/or exposure limits (OEL)

Name	CAS#	EC#	Registration#	Content*	GHS/CLP classification	Specific concentration limits, M coefficients and ATEs

Note: all classifications in square brackets are a GHS building block that is not part of the EU CLP regulations (No. 1272/2008) and therefore not applicable in EU or Non-EU countries implementing CLP regulations and these are presented for information purposes only. See section 16 of SDS for the full text of the hazard statements.

4. FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

Respiratory:

In connection with normal use, the product is not supposed to be dangerous for breathing.

Skin Contact:

The contact areas must be washed with soap and water. If the product has been injected into the skin or anywhere on the body, regardless of whether a mark or wound is visible, you should always consult in case of possible surgical procedures. Even if the symptoms from the high pressure injection are minimal or absent at all, you should still see a doctor, because surgical procedures started in the first few hours can significantly reduce the final effects of the accident

Spills in the eyes:

Rinse thoroughly with water. If irritation occurs, seek medical attention.

Swallowing:

First aid is usually not required. Seek medical attention if any problems occur.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS

Immediate and Delayed:

Local necrosis is evidenced by delayed onset of pain and tissue damage a few hours following injection.

4.3 INSTRUCTIONS REGARDING IMMEDIATE MEDICAL ASSISTANCE AND SPECIAL TREATMENT THAT MAY BE NEEDED

At the workplace, it is not assumed that there is a need to organize special or immediate medical/treatment measures.

5. FIRE FIGHTING MEASURES

5.1 EXTINGUISHING AGENTS

Suitable extinguishing media: Use water mist, foam, powder or carbon dioxide (CO₂) to extinguish flames.

Unsuitable extinguishing media: Direct water spray.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Harmful combustion products: Aldehydes, incomplete combustion products, carbon dioxides, fumes, gases, sulfur dioxides.

5.3 FIRE FIGHTING INSTRUCTIONS

Evacuate the area. Prevent extinguishing water or liquid mixtures from flowing into waterways, sewers or drinking water systems. The firefighting crew must use normal protective equipment and, in closed spaces, additional breathing air equipment that is independent of the outside air. Use water spray to cool the surfaces exposed to the fire and to protect the firefighting crew.

IGNITION CHARACTERISTICS:

Flash Point (Method): >249°C (480°F) [ARV. FOR OIL ASTM D-92 (COC)]

Upper/Lower Flammability limit (Approx. volume percentage in air): URP: no information

Ignition Temperature: no information

6. PROCEDURES IN CASE OF ACCIDENTAL RELEASE

6.1 PRECAUTIONS, PERSONAL PROTECTION AND PROCEDURE IN AN EMERGENCY

Notice Procedures:

In the event of a spill or runoff accident, notify the local fire authority immediately.

PROTECTIVE MEASURES:

Avoid contact with spilled substances. For fire protection information, see section 5. For significant hazards/hazards, see "Description of hazardous properties." See first aid instructions in section 4. See section 8 for minimum requirements regarding personal protective equipment. Other protective measures may also be necessary, depending on the special circumstances and/or the expert's assessment regarding the alert personnel.

Rescue personnel:

Respiratory protection: Respiratory protection is only necessary in special cases, e.g. when mists are formed. A half-or-full-facepiece respirator with dust/organic vapor filter(s) or self-contained breathing apparatus (SCBA) may be used, depending on the amount of leaks and potential exposure level. If exposure cannot be fully determined or an oxygen-deficient atmosphere is possible or presumed, self-contained breathing apparatus (SCBA) is recommended. Work gloves that are resistant to hydrocarbons are recommended. Polyvinyl acetate (PVA) gloves are not waterproof and are not suitable for emergency use. Chemical-resistant safety glasses are recommended if splashes or eye contact are possible. Small spills: normal, antistatic work clothes are usually sufficient. Large splashes: chemical-resistant, antistatic coveralls are recommended.

6.2 ENVIRONMENTAL PRECAUTIONS:

Prevent leaks from entering waterways, drains, basements or other closed spaces.

6.3 METHODS AND INSTRUMENTS FOR PROTECTIVE STRUCTURES AND CLEANING:

Spills on the ground: Scrape and shovel the spilled substance into a suitable container for recycling or disposal.

Leaks into water: Stop the leak if possible without danger. Contain the spill immediately with booms. Warn other shipping. *Skim from the surface.

Recommendations regarding water and soil leaks are based on the most probable leakage events of the product. However, geographical conditions, wind and temperature, and specially in water bodies, the direction and speed and wind and waves, can significantly affect the required measures. For this reason, measures must be negotiated with local experts, Note local authority decrees and regulations may prescribe or limit measures.

6.4 REFERENCE TO OTHER SECTIONS:

See section 8 and 13.

7. HANDLING AND STORAGE

7.1 MEASURES REQUIRED FOR SAFE HANDLING:

Prevent small run-offs and leaks as they create a slipping hazard.

Static charger: This product is not an electrostatic charger.

7.2 CONDITIONS REQUIRED FOR SAFE STORAGE, INCLUDING INCOMPATIBILITIES:

Do not store in an open or unlabeled container.

7.3 SPECIFIC END USE

Section 1 gives instructions regarding end use no specific instructions are available for the industry or sector.

8. EXPOSURE PREVENTION AND PERSONAL PROTECTION

8.1 CONTROL VARIABLES

EXPOSURE LIMITS

Exposure limits/standards (Note: limit values apply to total amounts)

Name of substance	Format	HTP	Values	Notes US	Source

Social and Health Authorities, OEL values

Note: You can get more information about the recommended monitoring and control methods from the following institutions/communities: Ministry of Social Affairs and Health

8.2 PREVENTION OF EXPOSURE

TECHNICAL GUIDELINES FOR EXPOSURE CONTROL

Protection and control requirements may vary, depending on exposure conditions. Actions to consider:
No special requirements under normal operating conditions and with adequate ventilation.

PERSONAL PROTECTION

The need to use personal protective equipment depends on the exposure conditions, such as operating conditions, handling, concentrations and ventilation. The protective equipment selection instructions given below for this product are based on assumed normal use.

RESPIRATORY PROTECTION

If it is not possible to keep the amount of air pollutants at a sufficiently low level for the health of the employees, respiratory protection must be used. In the selection, use and maintenance of a respirator, the official instructions must be followed as applicable. Guards to consider: Under normal operating conditions and with adequate ventilation, guarding is generally not required.

With high concentrations of air pollutants, an approved, overpressured breathing aid must be used. A breathing apparatus equipped with a reserve air tank can be used if the oxygen content is insufficient, if the gas/smoke warning detectors are insufficient or if the capacity of the breathing air filter may be exceeded.

HAND PROTECTION

All specific information regarding gloves is based on published literature or glove manufacturer's information. The suitability and durability of the gloves may vary depending on the conditions of use. Contact the glove manufacturer for detailed instructions regarding glove selection and durability under local conditions of use. Check and replace worn or damaged gloves. Gloves that should be considered for this substance are: Under normal conditions of use, protection is not usually required.

EYE PROTECTION

If contact is likely, it is recommended to use safety glasses with side shields.

SKIN AND BODY PROTECTION

All detailed clothing information is based on publications and to the manufacturer's information. Protective clothing to consider with this product: Under normal conditions of use, skin protection is usually not required. Good industrial hygiene skin contact should be avoided.

MEASURES RELATED TO HYGIENE

Always follow good personal hygiene. Always wash your hands after handling the product and before eating, drinking and/or smoking. Wash protective clothing and equipment regularly to remove contaminants. Dispose of soiled clothing and footwear that cannot be washed. Observe good cleanliness in the work environment.

INSTRUCTIONS FOR PREVENTING CONTAMINATION OF THE WORKING ENVIRONMENT

Comply with applicable environmental regulations regarding limiting to air, water and soil. Protect the environment by applying proper management measures to prevent or limit emissions.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical Description	: Clear Blue, semi-solid, bland odor	N-Octanol/Water Partition	: > 6 (based on information on similar products) coefficient (log Pow)
pH	: NDA	Dynamic Viscosity	: NDA
Boiling Point	: N/A	Kinematic Viscosity	: 460 cSt @ 100°C
Dropping Point	: None	Vapor Density (Air = 1)	: > 1 (estimated value)
Flash Point (COC)	: 372-399°C (700-750°F) min.	Evaporation Rate (nBuAc = 1)	: NDA
Water Solubility	: Insoluble	Decomposition	: NDA
Auto-Ignition Temp.	: None	Vapor Pressure	: N/A
Specific Gravity	: 0.83 @ (15.6/15.6C)	Temperature Flammability	: NDA
Relative Density	: Typical 0.9 @ 15°C/59°F	Oxidizing Properties	: NDA
Density	: Typical 0.9 kg/m3 @ 15°C/59°F	Explosive Properties	: Not classified
Upper/Lower Flam.	: Typical 1-10% (V)		

Note: Physical and chemical properties are provided for evaluation of safety, health and environmental considerations only and may not fully represent product specifications. Contact the supplier for more information. Most of the physical properties shown above refer to the oil component of the product.

9.2 OTHER INFORMATION

DMSO Extract (Min Oil Only), IP-346: <3% weight

9.2.1 INFORMATION RELATED TO PHYSICAL HAZARD CLASSES:

No information

9.2.2 OTHER SAFETY FEATURES:

No information

10. STABILITY AND REACTIVITY

10.1 REACTIVITY:

See subsections below.

10.2 CHEMICAL STABILITY:

The substance is stable under normal conditions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS:

Hazardous polymerization will not occur.

10.4 CONDITIONS TO AVOID:

Excessive heat. High-efficiency ignition sources.

10.5 INCOMPATIBLE MATERIALS:

Strong oxidizers.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS:

The substance does not decompose at ambient temperature.

11. INFORMATION RELATED TO TOXICITY

11.1 INFORMATION ON THE HAZARD CATEGORIES DEFINED IN REGULATION (EC) No 1272/2008

Class	Conclusion / Remarks
Inhalation	
Acute toxicity: There is no endpoint for the substance data.	Minimally toxic. Based on an evaluation of the ingredients.
Irritation: There is no endpoint for the substance data.	The hazard is negligible at normal processing temperatures.
Swallowing	
Acute toxicity: There is no endpoint for the substance data.	Minimally toxic. Based on an evaluation of the ingredients.
Skin	
Acute toxicity: There is no endpoint for the substance data.	Minimally toxic. Based on an evaluation of the ingredients.
Skin corrosion/irritation: There is no endpoint for the substance data	Skin irritation negligible at ambient temperature. Based on an evaluation of the ingredients.
Eye	
Serious eye damage/irritation: There is no endpoint for the substance data	May cause mild short-term discomfort in the eyes. Based on an evaluation of the ingredients.
Sensitization	
Respiratory sensitization: No endpoint data.	Not expected to be a respiratory sensitizer.
Skin sensitization: No endpoint data.	Not expected to be a skin sensitizer. Based on an evaluation of the ingredients.
Breathing	
No endpoint data	Not expected to be an aspiration hazard. Based on the physico-chemical properties of the material.
Genome vulnerability	
No endpoint data	Not expected to be mutagenic. Based on an evaluation of the ingredients.

Carcinogenicity	
No endpoint data	Not expected to cause cancer. Based on an evaluation of the ingredients.
Reproductive toxicity	
No endpoint data	Not expected to be toxic to reproduction. Based on an evaluation of the ingredients.
Breastfeeding	
No endpoint data	Not expected to cause harm to breastfed children.
Specific target organ toxicity (STOT)	
Single exposure: No endpoint data	Not expected to cause organ damage in single exposure.
Repeated exposure: No endpoint data	Not expected to cause organ damage through prolonged or repeated exposure. Based on an evaluation of the ingredients.

11.2.1 CHARACTERISTICS DISTURBING HORMONE FUNCTION

Does not contain substance(s) known to have endocrine-disrupting properties that affect human health.

11.2.2 OTHER INFORMATION

Contains: Base oil highly refined: Not carcinogenic in animal tests. A representative product passes IP-346, modified ames test and/or other screening test. Skin and respiratory studies show minimal effects, minimal undefined immune cell infiltration in the lungs, oil deposition and minimal granuloma formation. Does not cause sensitization in experimental animals.

12. INFORMATION ON HAZARDOUS EFFECTS

Note: The given information is based on material information, material components, or information on similar materials applying bridging principles.

12.1 TOXICITY

Material not expected to cause harm to aquatic organisms.

12.2 PERSISTENCE & DEGRADABILITY

Base oil component – Expected to be naturally biodegradable

12.3 BIOACCUMULATION

Base oil component – May bioaccumulate in the body, although metabolism or physical properties may limit bioaccumulation or absorption.

12.4 MOBILITY IN SOIL

Base oil component – Low solubility; floating and expected to migrate from water bodies to shore. Expect to separate into precipitate and solids.

12.5 PERSISTENCY, BIOACCUMULATION AND TOXICITY OF THE SUBSTANCE(S)

The material does not meet the criteria of Reach Annex XIII for PBT or vPvB.

12.6 HORMONAL DISTURBING PROPERTIES

Does not contain substance(s) known to have endocrine-disrupting properties that affect the environment.

12.7 OTHER ADVERSE EFFECTS

No adverse effects are expected.

13. ASPECT RELATED TO WASTE TREATMENT

13.1 WASTE TREATMENT METHODS

The calorific value of the product can be utilized by burning it in a separate controlled incinerator or it can be disposed of in a controlled manner at a very high temperature to avoid the formation of harmful combustion products.

Waste category: 12 01 12*

Note: The waste handling instructions are based on the delivered product. The product must be disposed of in compliance with applicable laws and regulations, as well as taking into account the properties of the product at the time of disposal.

The products waste classification above has been made according to the original purpose of use. If the product has been used for a purpose other than its original purpose and/or impurities have been transferred to it from the production process, the user of the product must classify the waste in the appropriate waste category.

This material is considered hazardous waste in accordance with Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain directives and is subject to the provisions of that directive, unless article 20 of that directive applies.

*The waste handling instructions are based on the delivered product. The product must be disposed of in compliance with applicable laws and regulations, as well as taking into account the properties of the product at the time of disposal.

Empty container warning, Empty container (when applicable): Empty containers may contain residues and be hazardous. Do not attempt to fill or clean tanks without proper instructions. Empty drums must be completely emptied and stored safely until they are either properly put back into service or disposed of. Empty containers must be taken for recycling, collection or disposal through an authorized and licensed contractor and in accordance with the country's regulations. DO NOT PRESS, CUT, WELD, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FIRE, SPARKS, STATIC ELECTRICITY OR OTHER FOR IGNITION SOURCES. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

14. SHIPPING INFORMATION

Land Transport (ADR/RID)

14.1-14.6 Not regulated for land transport.

Inland Waters (ADN)

14.1-14.6 Not regulated for inland water transport. Not used in Finland.

SEA (IMDG)

14.1-14.6 Not regulated for sea transport according to the IMDG code.

SEA (MARPOL 73/78 Agreement – Annex II)

14.7 Sea transport in bulk according to IMO documents, not classified according to Annex II

AIR (IATA)

14.1-14.6 Not regulated for air transport.

15. LEGISLATIVE INFORMATION

APPLICABLE LAWS AND REGULATIONS

Listed or exceptionally not listed in the following chemical lists: AIIC,DSL, ENCS, IECSC, ISHL, KECI, TCSI, TSCA

Special cases:

Catalog	Status
PICCS	Restrictions apply

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

15.1 SPECIFIC SAFETY, HEALTH AND ENVIRONMENTAL RULES OR LEGISLATION REGARDING THE SUBSTANCE OR MIXTURE

Applicable EU directives and regulations:

1907/2006 [... on the Registration, Evaluation, Authorization and Restriction of Chemicals and amendments thereto]

1272/2008 [regarding the classification, labeling and packaging of substances and mixtures, and amendments to these]

REACH Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII): The following Annex XVII headings may be considered for this product: None

PRODUCT REGISTRATION STATUS

15.2 CHEMICAL SAFETY ASSESSMENT

REACH Information:

A chemical safety assessment has been carried out for one or more constituents or the material.

16. OTHER INFORMATION

References: Data sources used in the preparation of this safety data sheet include one or more of the following: in-house or supplier toxicological studies, CONCAWE product documents, publications of other trade associations, such as EU Hydrocarbon Solvents REACH Consortium, US HPV Program Robust Summaries, EU IUCLID database, US NTP publications, and other sources, where applicable.

List of abbreviations and acronyms that may (but not necessarily) be used in this safety data sheet:

Acronym	Full text
e.g.	Not applicable
e.m.	Not defined
NE	Not prepared
Volatile	Volatile organic compound
Organic Compound (VOC)	
AIIC	Catalog of Australian Industrial Chemicals
AIHA WEEL	American Industrial Hygiene Association occupational exposure limits
ASTM	ASTM International, originally known as the American Society for Testing and Materials (ASTM)
DSL	List of Domestic Substances (Canada)
EINECS	List of substances in commercial use in Europe
LIVING	List of chemical substances notified in Europe
ENCS	Existing and New Chemical Substances (Japanese List)

IECSC	China's List of Existing Chemical Substances
KECI	List of existing chemicals in Korea
NDSL	List of Foreign Substances (Canada)
NZIoC	New Zealand Chemical Inventory
PICCS	List of Chemicals and Chemical Substances of the Philippines
VAT	Threshold limit value (American Conference of Governmental Industrial Hygienists)
TSCA	Toxic Substances Control Act (US List)
UVCB	Substances unknown or variable substances, complex reaction products or biological materials
LC	Lethal concentration
LD	Lethal dose
LL	Deadly load
EC	Actual concentration
EL	Actual load
NOEC	No detectable effect concentration
NOELR	No detectable effect loading rate

EXPLANATIONS FOR THE H-CODES ARE IN PART 3 OF THIS DOCUMENT (for information only): Asp. Tox 1 H304: May be fatal if swallowed and enters airways; Aspiration, category Eye Irrit. 2 H319: Causes serious eye irritation; Serious eye irritation, class

The information and recommendations contained in this safety data sheet are correct and reliable to the best of our company's knowledge at the time of approval. Contact Mega-Lab Manufacturing Co. Ltd. to ensure that this document is the most recent release available. The information and recommendations are provided for the user to consider and evaluate.

It is the user's responsibility to determine whether the product is suitable for the intended use. If the buyer repackages this product, it is the user's responsibility to ensure that relevant health, safety and other necessary information is provided with or on top of the packaging. Relevant warnings and handling safety instructions must be given to handlers and users. Changing the content of this announcement is strictly prohibited. Other than the distribution required by law, the publication or resending this bulletin is prohibited in whole or part.