

# SAFETY DATA SHEET

Revision date 2022-Nov-28

Revision number 1.06

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

### 1.1 Product identifier

**Product name** GEOlube<sup>®</sup> 43 A 1000  
**Product code** 745714  
**Synonyms** Polyalkylene glycol monobutyl ether

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

**Recommended use [RU]** Component: Lubricant, Metal working fluids  
**Uses advised against** None known

### 1.3 Details of the supplier of the safety data sheet

#### **Supplier**

GEO Specialty Chemicals UK Ltd  
Charleston Road, Hardley, Hythe  
Southampton, Hampshire SO45 3ZG  
United Kingdom  
Phone: +44 (0)23 80894666  
Fax No: +44 (0)23 80243113

**Responsibility Statement** For further information, please contact [safety-data-sheet-fp@geosc.com](mailto:safety-data-sheet-fp@geosc.com)

### 1.4 Emergency telephone number

**Emergency telephone** 24 Hour Emergency Phone Number  
GEO Specialty Chemicals UK Ltd  
+44 (0)23 80891806

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

<b>Acute inhalation toxicity - dust/mist</b>	Category 3
--	------------

### 2.2 Label elements

**Labeling according to Regulation (EC) No. 1272/2008 [CLP]**



**Signal word** DANGER

**Hazard statements**

H331 - Toxic if inhaled

**Precautionary statements**

P271 - Use only outdoors or in a well-ventilated area

P260 - Do not breathe mist/vapor

P311 - Call a POISON CENTER or doctor/physician

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

**Hazard components for labeling** • Oxirane, 2-methyl-, polymer with oxirane, monobutyl ether

**2.3 Other Information**

None known

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**3.1 Substances**

Component	EU EINECS	weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	(REACH) Regulation (EC 1907/2006)
Oxirane, 2-methyl-, polymer with oxirane, monobutyl ether 9038-95-3	Not applicable	> 95%	Acute Tox. 3 (H331)	In compliance

**For the full text of the H-Statements mentioned in this Section, see Section 16.**

**3.2 Mixtures**

Not applicable

## 4. FIRST AID MEASURES

**4.1 Description of first aid measures**

**Eye contact**

Immediately flush with plenty of water for at least 15 minutes, holding eyelids apart to ensure flushing of the entire surface.

**Skin contact**

Wash off immediately with soap and plenty of water. Remove contaminated clothing and shoes.

**Ingestion**

Rinse mouth thoroughly with water. Drink plenty of water.

**Inhalation**

Remove to fresh air. Seek immediate medical attention/advice.

**4.2 Most important symptoms and effects, both acute and delayed**

**Most important symptoms and effects**

See Section 11 for more information.

#### **4.3 Indication of any immediate medical attention and special treatment needed**

**Note to physicians**

Treat symptomatically.

## **5. FIRE-FIGHTING MEASURES**

#### **5.1 Extinguishing media**

**Suitable extinguishing media**

Water spray, carbon dioxide (CO<sub>2</sub>), dry chemical, alcohol-resistant foam.

**Extinguishing media which must not be used for safety reasons**

High pressure waterjet.

#### **5.2 Special hazards arising from the substance or mixture**

**Special Hazard**

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

#### **5.3 Advice for firefighters**

**Special protective equipment for firefighters**

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

**Firefighting measures**

Cool exposed containers with water spray after extinguishing fire.

## **6. ACCIDENTAL RELEASE MEASURES**

#### **6.1 Personal precautions, protective equipment and emergency procedures**

**Personal precautions**

Wear suitable protective clothing and gloves. Wear self-contained breathing apparatus.

#### **6.2 Environmental precautions**

**Environmental precautions**

Do not empty into drains/surface water/ground water. Prevent fire extinguishing water from contaminating surface water or the ground water system. Retain contaminated washing water and dispose it.

#### **6.3 Methods and material for containment and cleaning up**

**Methods for cleaning up**

Prevent further leakage or spillage if safe to do so. Clear spills immediately.

Small spill: Soak up with inert absorbent material. Dispose of according to regulations.

Large spill: Use mechanical means such as pumps and absorbent materials.

#### **6.4 Reference to other sections**

See Section 12 for additional Ecological Information

## **7. HANDLING AND STORAGE**

#### **7.1 Precautions for safe handling**

**Advice on safe handling**

Handle and open container with care  
 Use only in well-ventilated areas  
 Take precautionary measures against static discharge  
 Avoid generation of aerosols/mist

## 7.2 Conditions for safe storage, including any incompatibilities

### Technical measures and storage conditions

Do not store together with oxidants.  
 Do not store together with reductants.  
 Keep away from heat  
 Protect from direct sunlight  
 Keep container tightly closed in a cool place  
 Keep only in the original container  
 Technical Rules for Hazardous Substances (TRGS) 510/Storage Class LGK (Germany): Storage Class/LGK 6.1B

## 7.3 Specific end use(s)

**Specific use(s)**  
 Not applicable

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control parameters

### Occupational exposure limit value

Component	European Union	United Kingdom	Spain	Germany
Oxirane, 2-methyl-, polymer with oxirane, monobutyl ether 9038-95-3	NAV	NAV	NAV	NAV

### Biological limit values

Component	European Union	United Kingdom	Spain	Germany
Oxirane, 2-methyl-, polymer with oxirane, monobutyl ether 9038-95-3	NAV	NAV	NAV	NAV

## 8.2 Exposure controls

### Personal Protective Equipment

#### Eye/face Protection

Wear safety glasses with side shields (or goggles).

#### Hand Protection

Appropriate chemical resistant gloves should be worn  
 Nitrile gloves. Coating thickness 0.4 mm. Level 6 > 480 min breakthrough time.

#### Skin and body protection

Wear suitable protective clothing.

#### Respiratory protection

When processing in open systems with aerosol formation wear suitable respiratory protection to avoid inhalation of aerosol particles.

#### Other personal protection data

Eyewash fountains and safety showers must be easily accessible.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls**  
No information available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

<b>Physical state</b>	liquid
<b>Color</b>	colorless
<b>Appearance</b>	clear
<b>Odor</b>	characteristic
<b>Odor threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks</u>
<b>pH</b>	No information available	No information available
<b>Melting / freezing point</b>	No information available	No information available
<b>Boiling point / boiling range</b>	No information available	No information available
<b>Flash point</b>	> 216.0 °C / > 420.8 °F	ASTM D92
<b>Evaporation rate</b>	No information available	No information available
<b>Flammability (solid, gas)</b>	Not flammable	No information available
<b>Flammability Limit in Air</b>		
Upper flammability limit	No information available	No information available
Lower flammability limit	No information available	No information available
<b>Vapor pressure</b>	No information available	No information available
<b>Vapor density</b>	No information available	No information available
<b>Specific gravity</b>	No information available	No information available
<b>Solubility (water)</b>	Soluble	No information available
<b>Solubility in other solvents</b>	No information available	No information available
<b>Partition coefficient: n-octanol/water</b>	No information available	No information available
<b>Autoignition temperature</b>	> 370.0 °C / > 698.0 °F	DIN 51794
<b>Decomposition temperature</b>	No information available	No information available
<b>Kinematic viscosity</b>	990.00 mm <sup>2</sup> /s @ 40 °C	ASTM D 445-97
<b>Dynamic viscosity</b>	No information available	No information available
<b>Density</b>	1.0620 g/cm <sup>3</sup> @ 20 °C	ASTM D 1298-99

### 9.2 Other information

<b>Bulk Density</b>	No information available
<b>Explosive properties</b>	Not an explosive.
<b>Oxidizing properties</b>	The substance or mixture is not classified as oxidizing.
<b>Softening point</b>	No information available
<b>Molecular weight</b>	4300 g/mol
<b>Volatile Organic Compound (VOC) content, wt.%</b>	Not a VOC

Percent Volatile, wt.%	No information available
------------------------	--------------------------

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

**Reactivity**

No information available.

### 10.2 Chemical stability

**Chemical stability**

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

**Possibility of hazardous reactions**

None under normal use conditions

**Hazardous polymerization**

Hazardous polymerization does not occur.

### 10.4 Conditions to avoid

**Conditions to avoid**

Avoid heat, sparks and open flame.

### 10.5 Incompatible materials

**Materials to avoid**

Oxidizing agents. Reducing agents.

### 10.6 Hazardous decomposition products

**Hazardous decomposition products**

None known.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute health hazard

**Eye contact**

May cause slight irritation.

**Skin contact**

May cause slight irritation.

**Ingestion**

Low toxicity by this route.

**Inhalation**

Toxic by inhalation. Symptoms may be delayed. Unlikely to be hazardous by inhalation unless present as an AEROSOL.

#### Acute toxicity

**Oral LD50**

> 5,000 mg/kg (rat)

**Dermal LD50** No information available

**Inhalation LC50** 1 mg/L (rat)

**Skin corrosion/irritation**

Not irritating, rabbits

**Serious eye damage/eye irritation**

Not irritating, rabbits

**Sensitization**

Dermal sensitization: non-sensitizing

**Germ cell mutagenicity**

No information available

**Carcinogenicity**

No information available

**Reproductive toxicity**

No information available

**Specific target organ toxicity - Single exposure**

No information available

**Specific target organ toxicity - Repeated exposure**

No information available

**Aspiration hazard**

No information available

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

#### Acute aquatic toxicity

**Fish** LC50 > 100 mg/l

**Crustacea** No information available

**Algae/aquatic plants** No information available

### 12.2 Persistence and degradability

#### **Persistence and degradability**

No information available

#### **Biodegradation**

Not readily biodegradable

### 12.3 Bioaccumulative potential

#### **Bioaccumulative potential**

The bioaccumulation potential is low

### 12.4 Mobility in soil

#### **Mobility**

No information available.

## 12.5 Results of PBT and vPvB assessment

### **PBT and vPvB assessment**

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT)

This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB)

## 12.6 Other adverse effects

### **Other information**

No other ecological studies have been carried out on this product.

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

#### **Disposal of wastes**

This material and its container must be disposed of as hazardous waste.

#### **Contaminated packaging**

Packaging that cannot be cleaned are to be disposed of in the same manner as the product. Disposal must be made according to official regulations.

## 14. TRANSPORT INFORMATION

US DOT Not regulated

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

14.6. Special precautions for user

Land transport (ADR/RID) Not regulated

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

14.6. Special precautions for user

Air transport (ICAO-TI / IATA-DGR) Not regulated

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

14.6. Special precautions for user

Sea transport (IMDG) Not regulated

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

14.6. Special precautions for user

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## 15. REGULATORY INFORMATION

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

### National Regulations

#### **Germany - Water Classification (VwVwS)**

WGK 1 (Anhang 2, ID No 563)

### International Inventories

#### **Australia (AICS)**

All ingredients are on the inventory or exempt from listing

#### **Canada (DSL)**

All ingredients are on the inventory or exempt from listing

#### **Canada (NDSL)**

None of the ingredients are on the inventory.

#### **China (IECSC)**

All ingredients are on the inventory or exempt from listing

#### **European Union (EINECS)**

All ingredients are on the inventory or exempt from listing

#### **European Union (ELINCS)**

None of the ingredients are on the inventory.

#### **Japan (ENCS)**

All ingredients are on the inventory or exempt from listing

#### **South Korea (KECL)**

All ingredients are on the inventory or exempt from listing

#### **Philippines (PICCS)**

All ingredients are on the inventory or exempt from listing

#### **United States (TSCA)**

All ingredients are on the inventory or exempt from listing

### Legend

**AICS** - Australian Inventory of Chemical Substances

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**IECSC** - China Inventory of Existing Chemical Substances

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

## 15.2 Chemical Safety Report

Not applicable.

## 16. OTHER INFORMATION

**Product code** 745714

**Revision date** 2022-Nov-28

**Full text of H-Statements referred to under sections 2 and 3**

H331 - Toxic if inhaled

**Key or legend to abbreviations and acronyms used in the safety data sheet**

NAV - Not available

**This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006.**

**Additional information**

GEOLube® is a registered trademark of GEO Specialty Chemicals, Inc.

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.