

## SAFETY DATA SHEET

acc.to ISO/DIS 11014 for USA

### 1 PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifier

**Product name:** GLEITMO 2145 V

**Other means of identification:** For further information, please refer to section 9 of the SDS.

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

**Identified uses:** Lubricant

**Uses advised against:** No uses advised against identified.

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

**Manufacturer**

FUCHS LUBRITECH GmbH  
Werner-Heisenberg-Straße 1  
67661 Kaiserslautern/Germany

US Distributor

Fuchs Lubricants Co.  
17050 Lathrop Avenue  
Harvey, IL 60426

Telephone:

+49 (0) 6301 3206-0

Fax:

+49 (0) 6301 3206-940

**Contact Person:**

FUCHS LUBRITECH GmbH - Product Safety Management

Telephone:

+49 (0) 6301 3206-0

Fax:

+49 (0) 6301 3206-940

E-mail:

INFO@FUCHS-LUBRITECH.DE

#### 1.4 US contact telephone :

708-333-8900

**Emergency telephone:**

**800-255-3924**

### 2 HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

**Physical Hazards**

Flammable liquids

Category 3

**Health Hazards**

Serious Eye Damage/Eye Irritation

Category 2A

**Hazard summary**

**Physical Hazards:**

No data available.

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**Product name:** GLEITMO 2145 V

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## 2.2 Label Elements



**Signal Words:** Warning

**Hazard Statement(s):** H226: Flammable liquid and vapor.  
H319: Causes serious eye irritation.

### Precautionary Statements

**Prevention:**

- P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233: Keep container tightly closed.
- P240: Ground and bond container and receiving equipment.
- P241: Use explosion-proof [electrical/ventilating/lighting/] equipment.
- P242: Use non-sparking tools.
- P243: Take action to prevent static discharges.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P264: Wash thoroughly after handling.

**Response:**

- P305+P351+P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313: If eye irritation persists: Get medical advice/attention.
- P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P370: In case of fire:
- P378: Use ... to extinguish.

**Storage:**

- P403: Store in well-ventilated place.
- P235: Keep cool.

**Disposal:**

- P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

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**2.3 Other hazards:** By handling of mineral oil products and chemical products no particular hazard is known when normal precautions (item 7) and personal protective equipment (item 8) are kept. The product may not be released into the environment without control.

**Unknown toxicity:** Due to information available product does not contain any ingredients of unknown toxicity.

### 3 COMPOSITION / INFORMATION ON INGREDIENTS

**General information:** Mixture of the substances listed below with harmless additions.

Chemical name	Identifier	Concentration *	Notes
Isopropyl alcohol	67-63-0	5.00 - <10.00%	
trisiloxane , polyethermodified	27306-78-1	1.00 - <2.50%	

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

#### Classification

Chemical name	Classification	
Isopropyl alcohol	67-63-0	Flam. Liq. 2;H225, Eye Irrit. 2;H319, STOT SE 3;H336
trisiloxane , polyethermodified	27306-78-1	Acute Tox. 4;H302, Acute Tox. 4;H332, Eye Irrit. 2;H319, Aquatic Chronic 2;H411

### 4 FIRST AID MEASURES

**General:** Instantly remove any clothing soiled by the product.

#### 4.1 Description of first aid measures

**Inhalation:** Supply fresh air; consult doctor in case of symptoms.

**Eye contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

**Skin Contact:** Get medical attention if symptoms occur. Take off immediately all contaminated clothing. Rinse skin with water [or shower].

**Ingestion:** Rinse mouth thoroughly.

**4.2 Most important symptoms and effects, both acute and delayed:** Causes serious eye irritation.

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**4.3 Indication of any immediate medical attention and special treatment needed**      Get medical attention if symptoms occur.

<b>SECTION 5: Firefighting measures</b>
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**General Fire Hazards:**      Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

**5.1 Extinguishing media**

**Suitable extinguishing media:**      CO<sub>2</sub>, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable surfactant added

**Unsuitable extinguishing media:**      Avoid water in straight hose stream; will scatter and spread fire.

**5.2 Special hazards arising from the substance or mixture:**      During fire, gases hazardous to health may be formed.

**5.3 Advice for firefighters**

**Special fire fighting procedures:**      Move container from fire area if it can be done without risk. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Collect contaminated fire fighting water separately. It must not enter drains.

**Special protective equipment for fire-fighters:**      Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

<b>SECTION 6: Accidental release measures</b>
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**6.1 Personal precautions, protective equipment and emergency procedures:**      In case of spills, beware of slippery floors and surfaces. Ventilate closed spaces before entering them. Keep upwind. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep away from sources of ignition - No smoking.

**6.2 Environmental Precautions:**      Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Prevent from spreading (e.g. by binding or oil barriers). Avoid release to the environment. Environmental manager must be informed of all major spillages. Do not allow to enter drainage system, surface or ground water.

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

Absorb with liquid-binding material (sand, diatomite, acidbinders, universal binders, sawdust). Dispose of the material collected according to regulations. Stop the flow of material, if this is without risk.

**6.4 Reference to other sections:**

See Section 8 of the SDS for Personal Protective Equipment. See Section 7 for information on safe handling See Section 13 for information on disposal.

Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk.

<b>SECTION 7: Handling and storage:</b>
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**7.1 Precautions for safe handling:**

Avoid contact with eyes. Wash hands thoroughly after handling. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment. Take precautionary measures against static discharges. Prevent formation of aerosols. Observe good industrial hygiene practices. Provide adequate ventilation.

**7.2 Conditions for safe storage, including any incompatibilities:**

Store in a well-ventilated place. Store in a cool place. Local regulations concerning handling and storage of waterpolluting products have to be followed. Do not heat up to temperatures close to the flash point.

**7.3 Specific end use(s):**

not applicable

<b>8 EXPOSURE CONTROLS / PERSONAL PROTECTION</b>
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**Product name:** GLEITMO 2145 V

### 8.1.Exposure Limits

Chemical name	Type	Exposure Limit Values		Source
Isopropyl alcohol	PEL	400 ppm	980 mg/m <sup>3</sup>	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Isopropyl alcohol	TWA	400 ppm	980 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Isopropyl alcohol	STEL	500 ppm	1,225 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Isopropyl alcohol	TWA	200 ppm		US. ACGIH Threshold Limit Values (02 2012)
Isopropyl alcohol	STEL	400 ppm		US. ACGIH Threshold Limit Values (02 2012)
Base oil, naphthenic	PEL	500 ppm	2,000 mg/m <sup>3</sup>	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Base oil, naphthenic - Mist.	PEL		5 mg/m <sup>3</sup>	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Base oil, naphthenic	TWA	400 ppm	1,600 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Base oil, naphthenic - Mist.	TWA		5 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Base oil, naphthenic - Inhalable fraction.	TWA		5 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values (03 2014)
Ethanediol	Ceiling	50 ppm	125 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Ethanediol - Aerosol.	Ceiling		100 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values (02 2012)
DEA	TWA	3 ppm	15 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
DEA - Inhalable fraction and vapor.	TWA		1 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values (02 2012)

### 8.2.Exposure controls

#### Appropriate engineering controls:

Provide adequate ventilation. Ventilation rates should 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.

#### Individual protection measures, such as personal protective equipment

##### General information:

Wash hands before breaks and after work. Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. The usual precautionary measures should be adhered to in handling the chemicals or the mineral oil products.

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**Eye/face protection:** Wear goggles/face shield.

**Skin protection**

**Hand Protection:**

Material: Nitrile butyl rubber (NBR).  
Min. Breakthrough time:  $\geq 480$  min  
Recommended thickness of the material:  $\geq 0.38$  mm

Avoid long-term and repeated skin contact. Suitable gloves can be recommended by the glove supplier. Use skin protection cream for preventive skin protection. Protective gloves, where permitted in acc. to safety directions. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Other:**

Do not carry cleaning cloths impregnated with the product in trouser pockets. Wear suitable protective clothing.

**Respiratory Protection:**

Ensure good ventilation/exhaustion at the workplace. Avoid breathing vapour/ aerosol.

**Thermal hazards:**

No data available.

**Hygiene measures:**

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

**Environmental Controls:**

No data available.

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**9 PHYSICAL AND CHEMICAL PROPERTIES**

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**9.1 Information on basic physical and chemical properties**

<b>Physical state:</b>	liquid
<b>Form:</b>	liquid
<b>Color:</b>	White
<b>Odor:</b>	Characteristic
<b>Odor Threshold:</b>	Not applicable for mixtures
<b>pH:</b>	5.0 - 6.0
<b>Freezing point:</b>	Not applicable for mixtures
<b>Boiling Point:</b>	100 °C
<b>Flash Point:</b>	30 °C
<b>Evaporation Rate:</b>	Not applicable for mixtures
<b>Flammability (solid, gas):</b>	Value not relevant for classification

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Flammability Limit - Upper (%)-:	Not applicable for mixtures
Flammability Limit - Lower (%)-:	Not applicable for mixtures
Vapor pressure:	Not applicable for mixtures
Vapor density (air=1):	Not applicable for mixtures
Density:	1.00 g/cm <sup>3</sup> (15 °C)
Solubility(ies)	
Solubility in Water:	Miscible with water.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	Not applicable for mixtures
Autoignition Temperature:	Value not relevant for classification
Decomposition Temperature:	Value not relevant for classification
Flow time:	Value not relevant for classification
Explosive properties:	Value not relevant for classification
Oxidizing properties:	Value not relevant for classification
9.2 Other information	No data available.

## SECTION 10: Stability and reactivity

10.1 Reactivity:	Stable under normal use conditions.
10.2 Chemical Stability:	Material is stable under normal conditions.
10.3 Possibility of hazardous reactions:	Stable under normal use conditions.
10.4 Conditions to avoid:	Heat, sparks, flames.
10.5 Incompatible Materials:	Strong oxidizing substances. Strong acids. Strong bases.
10.6 Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

## 11 TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

Inhalation:	No data available.
Ingestion:	No data available.
Skin Contact:	No data available.
Eye contact:	Causes eye irritation.



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**Product name:** GLEITMO 2145 V

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**Acute toxicity**

**Oral**

**Product:**

ATEmix: 20,184.22 mg/kg

**Specified substance(s)**

Isopropyl alcohol

LD 50 (Rat): 4,570 mg/kg

**Dermal**

**Product:**

Not classified for acute toxicity based on available data.

**Specified substance(s)**

Isopropyl alcohol

LD 50 (Rabbit): 13,400 mg/kg

**Inhalation**

**Product:**

Not classified for acute toxicity based on available data.

**Specified substance(s)**

Isopropyl alcohol

LC 50 (Rat, 4 h): 30 mg/l

**Skin Corrosion/Irritation:**

**Product:**

Based on available data, the classification criteria are not met.

**Serious Eye Damage/Eye Irritation:**

**Product:**

Based on available data, the classification criteria are not met.

**Respiratory or Skin Sensitization:**

**Product:**

Skin sensitizer: Based on available data, the classification criteria are not met.

Respiratory sensitizer: Based on available data, the classification criteria are not met.

**Germ Cell Mutagenicity**

**Product:**

Based on available data, the classification criteria are not met.

**Carcinogenicity**

**Product:**

Based on available data, the classification criteria are not met.

**IARC: IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogenic components identified

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**NTP: US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified

**OSHASp: US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):**

No carcinogenic components identified

**Reproductive toxicity**

**Product:** Based on available data, the classification criteria are not met.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** Based on available data, the classification criteria are not met.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** Based on available data, the classification criteria are not met.

**Aspiration Hazard**

**Product:** Based on available data, the classification criteria are not met.

<b>12 ECOLOGICAL INFORMATION</b>
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**12.1 Toxicity**

**Acute toxicity**

**Product:** Based on available data, the classification criteria are not met.

**Fish**

**Specified substance(s)**

Isopropyl alcohol LC 50 (Fish, 96 h): 9,640 mg/l

**Chronic ToxicityProduct:** Based on available data, the classification criteria are not met.

**12.2 Persistence and Degradability**

**Biodegradation**

**Product:** Not applicable for mixtures

**12.3 Bioaccumulative potential**

**Product:** Not applicable for mixtures

**12.4 Mobility in soil:**

**Product:** Not applicable for mixtures

**12.5 Results of PBT and vPvB assessment:**

The product does not contain any substances fulfilling the PBT/vPvB criteria.

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**12.6 Other adverse effects:** No data available.

## 13 Disposal considerations

### 13.1 Waste treatment methods

**General information:** Dispose in accordance with all applicable regulations.

**Disposal methods:** Discharge, treatment, or disposal may be subject to national, state, or local laws.

## 14 TRANSPORT INFORMATION

### DOT

14.1 UN Number: UN 1993  
14.2 Proper Shipping Name: Flammable liquids, n.o.s.  
14.3 Transport Hazard Class(es): 3  
14.4 Subsidiary risk label: –  
14.5 Packing Group: III  
14.6 Label(s): 3

### IMDG - International Maritime Dangerous Goods Code

14.1 UN Number: UN 1993  
14.2 UN Proper Shipping Name: FLAMMABLE LIQUID, N.O.S.(Isopropyl alcohol)  
14.3 Transport Hazard Class(es): 3  
14.4 Subsidiary risk label: –  
14.5 Packing Group: III  
14.6 Label(s): 3  
14.7 Marine Pollutant: –  
14.8 EmS No.: F-E; S-E

### IATA

14.1 UN Number: UN 1993  
14.2 Proper Shipping Name: Flammable liquid, n.o.s.(Isopropyl alcohol)  
14.3 Transport Hazard Class(es): 3  
14.4 Subsidiary risk label: –  
14.5 Packing Group: III  
14.6 Label(s): 3

## 15 REGULATORY INFORMATION

### US Federal Regulations

### US State Regulations

**Product name:** GLEITMO 2145 V

**Inventory Status**

DSL	On or in compliance with the inventory
NDSL	Not in compliance with the inventory.
TSCA	On or in compliance with the inventory

**16 OTHER INFORMATION**

**Revision Information:** Vertical lines in the margin indicate an amendment.

**Wording of the R-phrases and H-statements in section 2 and 3**

H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

**Revision Date:** 31.05.2017

**Disclaimer:** The data contained in this safety data sheet are based on our current knowledge and experience and are given to the best of our knowledge and belief. It characterizes the product only with regard to safety requirements for handling, transport and disposal. The data do not describe the product's properties (tech. product specification). Neither should any agreed property nor the suitability of the product for any specific technical application be deduced from the data contained in this safety data sheet. Modifications on this document are not allowed. The data are not transferable to other products. In the case of mixing the product with other products or in the case of processing, the data in this safety data sheet are not necessarily valid for the new-made material. It is the responsibility of the recipient of the product to observe federal, state and local law. Please contact us to obtain up-to-date safety data sheets. This document was issued electronically and has no signature.