



SAFETY DATA SHEET

acc.to ISO/DIS 11014 for USA

1 PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product name: gleitmo 2345 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
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Contact Person:

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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

The product has not been classified as hazardous and does not need to be labelled according to the legislation in force.

Hazard summary

Physical Hazards: No data available.

2.2 Label Elements not applicable



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

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
prim. Alkanol amine	124-68-5	1.00 - 5.00%	
Ethanediol	107-21-1	<0.10%	
DEA	111-42-2	<0.10%	

* 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
prim. Alkanol amine	124-68-5 Skin Irrit. 2;H315, Eye Irrit. 2;H319, Aquatic Chronic 3;H412
Ethanediol	107-21-1 Acute Tox. 4;H302, STOT RE 2;H373
DEA	111-42-2 Eye Dam. 1;H318, STOT RE 2;H373, Acute Tox. 4;H302, Skin Irrit. 2;H315

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: Promptly wash eyes with plenty of water while lifting the eye lids.

Skin Contact: Wash with soap and water. The product is not skin irritating.

Ingestion: Rinse mouth thoroughly.



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

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

Get medical attention if symptoms occur.

SECTION 5: Firefighting measures

General Fire Hazards:

None (non-combustible). Use fire fighting measures that suit the environment.

5.1 Extinguishing media

Suitable extinguishing media:

Not applicable, non-combustible.

Unsuitable extinguishing media:

No data available.

5.2 Special hazards arising from the substance or mixture:

No data available.

5.3 Advice for firefighters

Special fire fighting procedures:

Generally this product is not burnable on account of its water content. Use fire fighting measures that suit the environment.

Special protective equipment for fire-fighters:

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

In case of spills, beware of slippery floors and surfaces.

6.2 Environmental Precautions:

Prevent from spreading (e.g. by binding or oil barriers). Avoid release to the environment. Environmental manager must be informed of all major spillages. Prevent further leakage or spillage if safe to do so. 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.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling:

Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products. Observe good industrial hygiene practices. Provide adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities:

Local regulations concerning handling and storage of waterpolluting products have to be followed.

7.3 Specific end use(s):

No data available.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1.Exposure Limits

Chemical name	type	Exposure Limit Values		Source
Paraffin waxes and Hydrocarbon waxes - Fume.	TWA	2 mg/m3		US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Base oil, naphthenic	TWA	400 ppm	1,600 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Base oil, naphthenic - Mist.	TWA	5 mg/m3		US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Ethanediol	Ceiling	50 ppm	125 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
DEA	TWA	3 ppm	15 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)

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



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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.
Eye/face protection:	Safety glasses (EN 166) recommended during refilling.
Skin protection	
Hand Protection:	Avoid long-term and repeated skin contact. Protective gloves, where permitted in acc. to safety directions.
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.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state:	liquid
Form:	liquid
Color:	White
Odor:	Characteristic
Odor Threshold:	Not applicable for mixtures
pH:	> 8.5
Freezing point:	Not applicable for mixtures
Boiling Point:	No data available.
Flash Point:	not applicable
Evaporation Rate:	Not applicable for mixtures
Flammability (solid, gas):	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 ³ (15 °C)
Solubility(ies)	
Solubility in Water:	Soluble
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:	Stable under normal use conditions.
10.3 Possibility of hazardous reactions:	Stable under normal use conditions.
10.4 Conditions to avoid:	Stable under normal use conditions.
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.



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Eye contact: No data available.

Acute toxicity

Oral

Product:

ATEmix: 186,922 mg/kg

Specified substance(s)

prim. Alkanol amine

LD 50 (Rat): > 2,001 mg/kg

Ethanediol

LD 50 (Human): 1,600 mg/kg

DEA

LD 50 (Rat): 1,600 mg/kg

Dermal

Product:

ATEmix: 186,922 mg/kg

Specified substance(s)

prim. Alkanol amine

LD 50 (Rabbit): > 2,001 mg/kg

Ethanediol

LD 50 (Mouse): 3,500 mg/kg

DEA

LD 50 (Rabbit): 12,970 mg/kg

Inhalation

Product:

Not classified for acute toxicity based on available data.

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.

Specified substance(s)

Ethanediol

No sensitizing effect (guinea pig); OECD 406



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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

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.

12 ECOLOGICAL INFORMATION

12.1 Toxicity

Acute toxicity

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

Fish

Specified substance(s)

prim. Alkanol amine LC 50 (Fish, 96 h): 184 mg/l (OECD 203)

Ethenediol LC 50 (Fish, 96 h): 72,860 mg/l

DEA LC 50 (Fish, 96 h): 1,460 mg/l



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Aquatic Invertebrates

Specified substance(s)

prim. Alkanol amine	EC 50 (Water Flea, 48 h): 193 mg/l (OECD 202)
Ethanediol	EC 50 (Water Flea, 48 h): > 100 mg/l (OECD 202)
DEA	EC 50 (Water Flea, 48 h): 55 mg/l

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

Fish

Specified substance(s)

Ethanediol	NOEC (Fish, 7 d): 15,380 mg/l
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Aquatic Invertebrates

Specified substance(s)

Ethanediol	NOEC (Water Flea, 7 d): 8,590 mg/l
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Toxicity to Aquatic Plants

Specified substance(s)

prim. Alkanol amine	EC 50 (Alga, 72 h): 565.5 mg/l (OECD 201)
DEA	EC 50 (Alga, 72 h): 75 mg/l

12.2 Persistence and Degradability

Biodegradation

Product: Not applicable for mixtures

Specified substance(s)

prim. Alkanol amine	89.3 % (28 d, OECD 301F) Readily biodegradable
Ethanediol	> 90 % (10 d, OECD 301A) The product is easily biodegradable.

12.3 Bioaccumulative Potential

Product: Not applicable for mixtures

Specified substance(s)

prim. Alkanol amine	Bioconcentration Factor (BCF): < 1
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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: Do not empty into drains; dispose of this material and its container in a safe way. When storing used products, ensure that the waste categories and mixing instructions are observed.

14 TRANSPORT INFORMATION

DOT

Not regulated.

IMDG - International Maritime Dangerous Goods Code

Not regulated.

IATA

Not regulated.

15 REGULATORY INFORMATION

US Federal Regulations

Inventory Status

TSCA	On or in compliance with the inventory
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16 OTHER INFORMATION

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



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

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Revision Date: 19.09.2016

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.