

# SAFETY DATA SHEET

acc.to ISO/DIS 11014 for USA

## 1 PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifier

**Product name:** VITROLIS DC (COMP. A)

**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 LUBRICANTS (UK) PLC.  
New Century Street  
Hanley  
Stoke-on-Trent, Staffordshire, ST1 5HU  
UK

Telephone: +44 (0) 1782 203700

#### Contact Person:

Product Safety department  
Telephone: +44 (0) 1782 203700  
E-mail: PRODUCT.SAFETY@FUCHS-OIL.COM

**1.4 US contact telephone :** 708-333-8900

**Emergency telephone:** 800-255-3924

## 2 HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

#### Health Hazards

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2A
Skin sensitizer	Category 1

#### Environmental Hazards

Chronic hazards to the aquatic environment	Category 2
--	------------

#### Hazard summary

**Physical Hazards:** No data available.

**Product name:** VITROLIS DC (COMP. A)

## 2.2 Label Elements



**Signal Words:** Warning

**Hazard Statement(s):** H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H317: May cause an allergic skin reaction.  
H411: Toxic to aquatic life with long lasting effects.

### Precautionary Statements

**Prevention:** P264: Wash thoroughly after handling.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.  
P272: Contaminated work clothing should not be allowed out of the workplace.  
P273: Avoid release to the environment.

**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.  
P302+P352: IF ON SKIN: Wash with plenty of water.  
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.  
P321: Specific treatment (see on this label).  
P363: Wash contaminated clothing before reuse.  
P391: Collect spillage.

**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.

**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.

**Product name:** VITROLIS DC (COMP. A)

Chemical name	Identifier	Concentration *	Notes
Epoxy resin	25068-38-6	25.00 - <50.00%	
1,4-Bis(2,3-epoxypropoxy)butane	2425-79-8	10.00 - <20.00%	
substituted epoxy resin	9003-36-5	5.00 - <10.00%	

\* 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	Identifier	Classification
Epoxy resin	25068-38-6	Skin Irrit. 2;H315, Eye Irrit. 2;H319, Skin Sens. 1;H317, Aquatic Chronic 2;H411
1,4-Bis(2,3-epoxypropoxy)butane	2425-79-8	Acute Tox. 4;H312, Acute Tox. 4;H332, Skin Irrit. 2;H315, Eye Irrit. 2;H319, Skin Sens. 1;H317
substituted epoxy resin	9003-36-5	Skin Irrit. 2;H315, Skin Sens. 1;H317, 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. Destroy or thoroughly clean contaminated shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction develops, get medical attention.

**Ingestion:** Rinse mouth. Call a POISON CENTRE/doctor if you feel unwell.

**4.2 Most important symptoms and effects, both acute and delayed:** Suspected to cause hypersensitivity and allergy. Causes serious eye irritation. Causes skin irritation.

**4.3 Indication of any immediate medical attention and special treatment needed** Symptoms may be delayed.

## SECTION 5: Firefighting measures

### 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

**Product name:** VITROLIS DC (COMP. A)

**Unsuitable extinguishing media:** Water with a full water jet.

**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:** 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:** Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

**6.2 Environmental Precautions:** Avoid release to the environment. Prevent further leakage or spillage if safe to do so.

**6.3 Methods and material for containment and cleaning up:** Scrape up spillage or absorb with absorbing material. Stop the flow of material, if this is without risk. Dispose of the material collected according to regulations.

**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.

**SECTION 7: Handling and storage:**

**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. Avoid contact with skin. Avoid contact with eyes, skin, and clothing.

**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):** Not applicable

**8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Product name:** VITROLIS DC (COMP. A)

### 8.1.Exposure Limits

Chemical name	Type	Exposure Limit Values	Source
---------------	------	-----------------------	--------

### 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.

**Eye/face protection:** Avoid contact with eyes. Wear eye/face protection. Safety glasses (EN 166) recommended during refilling. Avoid contact with eyes.

**Skin protection**  
**Hand Protection:** Material: Nitrile-butadiene rubber (NBR).  
 Avoid long-term and repeated skin contact. Protective gloves, where permitted in acc. to safety directions. Suitable gloves can be recommended by the glove supplier. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. Use skin protection cream for preventive skin protection.

**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:** solid

**Form:** Paste

**Color:** Black

**Odor:** Characteristic

**Odor Threshold:** Not applicable for mixtures

**Product name:** VITROLIS DC (COMP. A)

<b>pH:</b>	Not applicable
<b>Melting Point:</b>	Not applicable for mixtures
<b>Boiling Point:</b>	> 200 °C
<b>Flash Point:</b>	112 °C
<b>Evaporation Rate:</b>	Not applicable for mixtures
<b>Flammability (solid, gas):</b>	Value not relevant for classification
<b>Flammability Limit - Upper (%)–:</b>	Not applicable for mixtures
<b>Flammability Limit - Lower (%)–:</b>	Not applicable for mixtures
<b>Vapor pressure:</b>	Not applicable for mixtures
<b>Vapor density (air=1):</b>	Not applicable for mixtures
<b>Density:</b>	1.20 g/cm <sup>3</sup> (15 °C)
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	Insoluble in water
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	Not applicable for mixtures
<b>Autoignition Temperature:</b>	Value not relevant for classification
<b>Decomposition Temperature:</b>	Value not relevant for classification
<b>Flow time:</b>	Value not relevant for classification
<b>Explosive properties:</b>	Value not relevant for classification
<b>Oxidizing properties:</b>	Value not relevant for classification
<b>9.2 Other information</b>	No data available.

## SECTION 10: Stability and reactivity

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

## 11 TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

<b>Inhalation:</b>	No data available.
<b>Ingestion:</b>	No data available.
<b>Skin Contact:</b>	Causes skin irritation. May cause an allergic skin reaction.
<b>Eye contact:</b>	Causes eye irritation.

---

**Product name:** VITROLIS DC (COMP. A)

---

**Acute toxicity**

**Oral**

**Product:**

ATEmix: 14,100 mg/kg

**Specified substance(s)**

1,4-Bis(2,3-  
epoxypropoxy)butane

LD 50 (Rat): 1,410 mg/kg

**Dermal**

**Product:**

ATEmix: 11,000 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 met.

**Serious Eye Damage/Eye Irritation:**

**Product:**

Based on available data, the classification criteria are met.

**Respiratory or Skin Sensitization:**

**Product:**

Skin sensitizer: Based on available data, the classification criteria are 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

**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.

**Product name:** VITROLIS DC (COMP. A)

**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.

**Chronic ToxicityProduct:** Based on available data, the classification criteria are 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.

### 12.6 Other adverse effects:

Toxic to aquatic life with long lasting effects.

## 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.



**Product name:** VITROLIS DC (COMP. A)

## 14 TRANSPORT INFORMATION

### DOT

#### IMDG - International Maritime Dangerous Goods Code

- 14.1 UN Number: UN 3082  
 14.2 UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Expoxy resin, substituted epoxy resin, Expoxy resin)  
 14.3 Transport Hazard Class(es): 9  
 14.4 Subsidiary risk label: –  
 14.5 Packing Group: III  
 14.6 Label(s): 9  
 14.7 Marine Pollutant: P  
 14.8 EmS No.: F-A; S-F

### IATA

- 14.1 UN Number: UN 3082  
 14.2 Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.(Expoxy resin, substituted epoxy resin, Expoxy resin)  
 14.3 Transport Hazard Class(es): 9  
 14.4 Subsidiary risk label: –  
 14.5 Packing Group: III  
 14.6 Label(s): 9MI

## 15 REGULATORY INFORMATION

### US Federal Regulations

### US State Regulations

### 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 H-statements in section 2 and 3

- H312 Harmful in contact with skin.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.  
 H332 Harmful if inhaled.  
 H411 Toxic to aquatic life with long lasting effects.

**Revision Date:** 16.01.2019

---

**Product name:** VITROLIS DC (COMP. A)

---

**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.