

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 21.06.2024

Version number 14 (replaces version 13)

Revision: 01.02.2022

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: GRILONIT RV 1807.41

Article number: 186155

CAS Number:

2461-15-6

EC number:

219-553-6

Registration number 01-2119962196-31-0000

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

No further relevant information available.

Application of the substance / the mixture Epoxy binder

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

EMS-GRILTECH CH-7013 Domat/Ems

Tel.+41 81 632 72 02, Fax +41 81 632 74 02

info@emsgriltech.com

Informing department:

Abteilung Umweltschutz und Sicherheit

Tel.: +41 81 632 78 88 Fax: +41 81 632 76 65

E-Mail: produktsicherheit@emsservices.ch

1.4 Emergency telephone number:

EMS-CHEMIE AG CH-7013 Domat/Ems

Phone: +41 81 632 78 88 Fax: +41 81 632 76 65

Poison Centre Switzerland Zürich Phone: +41 44 251 51 51

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1A H317 May cause an allergic skin reaction.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the GB CLP regulation.

Hazard pictograms



GHS07

Signal word Warning

Hazard-determining components of labelling:

[[[(2-ethylhexyl)oxy]methyl]oxirane

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. Hazard statements

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.

. Precautionary statements

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P280 Wear protective gloves.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P321 Specific treatment (see on this label).
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

. Additional information:

- EUH205 Contains epoxy constituents. May produce an allergic reaction.

. 2.3 Other hazards**. Results of PBT and vPvB assessment**

- . **PBT:** Not applicable.
- . **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

. 3.1 Substances**. CAS No. Designation:**

2461-15-6 [[(2-ethylhexyl)oxy]methyl]oxirane

. Identification number(s):. **EC number:** 219-553-6

SECTION 4: First aid measures

. 4.1 Description of first aid measures

- . **General information** Immediately remove any clothing soiled by the product.

. After inhalation

- Seek medical treatment in case of complaints.
- In case of unconsciousness bring patient into stable side position for transport.

- . **After skin contact** Immediately wash with water and soap and rinse thoroughly.

- . **After eye contact** Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

- . **After swallowing** In case of persistent symptoms consult doctor.

- . **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

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

No further relevant information available.

SECTION 5: Firefighting measures

. 5.1 Extinguishing media**. Suitable extinguishing agents**CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.**. 5.2 Special hazards arising from the substance or mixture**

Can be released in case of fire:

Carbon monoxide (CO)

Carbon dioxide (CO₂)

Under certain fire conditions, traces of other toxic gases cannot be excluded.

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- . **5.3 Advice for firefighters**
- . **Protective equipment:** Use self-contained breathing apparatus and protective fire fighting clothing.

SECTION 6: Accidental release measures

- . **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
- . **6.2 Environmental precautions:**
Prevent liquid entering sewers, basements and workpits.
Inform respective authorities in case product reaches water or sewage system.
- . **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to item 13.
- . **6.4 Reference to other sections**
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

SECTION 7: Handling and storage

- . **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- . **Information about protection against explosions and fires:** No special measures required.
- . **7.2 Conditions for safe storage, including any incompatibilities**
- . **Storage**
- . **Requirements to be met by storerooms and containers:** Keep in closed containers in a cool place
- . **Information about storage in one common storage facility:** Not required.
- . **Further information about storage conditions:** None.
- . **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- . **8.1 Control parameters**
- . **Components with critical values that require monitoring at the workplace:** Not required.
- . **8.2 Exposure controls**
- . **Appropriate engineering controls** No further data; see section 7.
- . **Individual protection measures, such as personal protective equipment**
- . **General protective and hygienic measures**
Avoid contact with the eyes and skin.
Instantly remove any soiled and impregnated garments.
- . **Breathing equipment:** Not necessary if room is well-ventilated.
- . **Hand protection** Protective gloves.
- . **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- . **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- . **Eye/face protection** Safety glasses

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. **Body protection:** Protective work clothing.

SECTION 9: Physical and chemical properties

. 9.1 Information on basic physical and chemical properties

. Appearance:	
. Form:	Fluid
. Colour:	Clear
. Smell:	Characteristic
. Boiling point or initial boiling point and boiling range	> 200 °C
. Flash point:	> 100 °C
. Decomposition temperature:	
. dynamic at 25 °C:	3 mPas
. Solubility	
. Water:	Insoluble
. Steam pressure at 20 °C:	4 hPa
. Density and/or relative density	
. Density at 20 °C	0.9 g/cm ³

. 9.2 Other information

. **Important information on protection of health and environment, and on safety.**. **Explosive properties:** Product is not explosive.

. Information with regard to physical hazard classes

. Explosives	Void
. Flammable gases	Void
. Aerosols	Void
. Oxidising gases	Void
. Gases under pressure	Void
. Flammable liquids	Void
. Flammable solids	Void
. Self-reactive substances and mixtures	Void
. Pyrophoric liquids	Void
. Pyrophoric solids	Void
. Self-heating substances and mixtures	Void
. Substances and mixtures, which emit flammable gases in contact with water	Void
. Oxidising liquids	Void
. Oxidising solids	Void
. Organic peroxides	Void
. Corrosive to metals	Void
. Desensitised explosives	Void

SECTION 10: Stability and reactivity

- * . **10.1 Reactivity** No further relevant information available.
- . **10.2 Chemical stability** No decomposition if used and stored according to specifications.
- . **10.3 Possibility of hazardous reactions** Reacts with amines
- . **10.4 Conditions to avoid** No further relevant information available.
- . **10.5 Incompatible materials:** No further relevant information available.

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. **10.6 Hazardous decomposition products:** No hazardous decomposition products known.

SECTION 11: Toxicological information

. **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

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

. **LD/LC50 values that are relevant for classification:**

2461-15-6 [[(2-ethylhexyl)oxy]methyl]oxirane

Oral LD50 > 5000 mg/kg (rat)

. **Skin corrosion/irritation** Causes skin irritation.

. **Serious eye damage/irritation** Based on available data, the classification criteria are not met.

. **Respiratory or skin sensitisation** May cause an allergic skin reaction.

. **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

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

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

. **STOT-single exposure** Based on available data, the classification criteria are not met.

. **STOT-repeated exposure** Based on available data, the classification criteria are not met.

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

. **11.2 Information on other hazards**

. **Endocrine disrupting properties**

Substance is not listed.

SECTION 12: Ecological information

. **12.1 Toxicity**

. **Aquatic toxicity:** No further relevant information available.

. **12.2 Persistence and degradability** No further relevant information available.

. **12.3 Bioaccumulative potential** No further relevant information available.

. **12.4 Mobility in soil** No further relevant information available.

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

. **PBT:** Not applicable.

. **vPvB:** Not applicable.

. **12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.

. **12.7 Other adverse effects**

. **Additional ecological information:**

. **General notes:**

Do not allow product to reach ground water, water bodies or sewage system.

Water hazard class 2 (): hazardous for water.

Danger to drinking water if even small quantities leak into soil.

SECTION 13: Disposal considerations

. **13.1 Waste treatment methods**

. **Recommendation** Hand over to disposers of hazardous waste.

. **European waste catalogue**

07 07 08* other still bottoms and reaction residues

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- . **Uncleaned packagings:**
- . **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- | | |
|---|---|
| . 14.1 UN number or ID number
. ADR/RID, ADN, IMDG, IATA | Void |
| . 14.2 UN proper shipping name
. ADR/RID, ADN, IMDG, IATA | Void |
| . 14.3 Transport hazard class(es)
. ADR/RID, ADN, IMDG, IATA
. Class | Void |
| . 14.4 Packing group
. ADR/RID, IMDG, IATA | Void |
| . 14.5 Environmental hazards: | Not applicable. |
| . 14.6 Special precautions for user | Not applicable. |
| . 14.7 Maritime transport in bulk according to IMO instruments | Not applicable. |
| . Transport/Additional information: | Not dangerous according to ADR/RID/IMDG/IATA. |
| . UN "Model Regulation": | Void |

SECTION 15: Regulatory information

- . **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- . **Directive 2012/18/EU**
- . **Named dangerous substances - ANNEX I** Substance is not listed.
- . **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- . **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**
Substance is not listed.
- . **REGULATION (EU) 2019/1148**
- . **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**
Substance is not listed.
- . **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**
Substance is not listed.
- . **Regulation (EC) No 273/2004 on drug precursors**
Substance is not listed.
- . **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**
Substance is not listed.

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. **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

The information contained herein is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

. **Department issuing data specification sheet:** Environment and safety department (U+S)

. **Contact:**

Abteilung Umweltschutz und Sicherheit
 Tel.: +41 81 632 78 88 Fax: +41 81 632 76 65
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. **Date of previous version:** 26.01.2018

. **Version number of previous version:** 13

. **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Skin Sens. 1A: Skin sensitisation – Category 1A

. **Sources**

Regulations

Regulation (EC) No 1907/2006, amended by (EU) No 2020/878, amended last by commission regulation (EU) No 2023/2482.

Regulation (EC) No 1272/2008, amended last by commission regulation (EU) No 2024/197.

. *** Data compared to the previous version altered.**

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