

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Flexibilizer**

Revision date: 14.04.2021

Product code: 130140

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Flexibilizer

Substance name: Polypropylenglykoldiglycidether

CAS No: 9072-62-2

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Epoxy binder

**1.3. Details of the supplier of the safety data sheet**

Company name: R&amp;G Faserverbundwerkstoffe GmbH

Composite Technology

Street: Im Meißel 7 - 13

Place: D-71111 Waldenbuch

Post-office box: 1145

D-71107 Waldenbuch

Telephone: +49 (0)7157 5304-60

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Contact person: Michael Groß

Telephone: +49 (0)7157 5304-60

e-mail: urlaubmg@r-g.de

Internet: www.r-g.de

Responsible Department: Management

**1.4. Emergency telephone number:** Vergiftungs-Informations-Zentrale Freiburg  
Tel: +49 (0)761 19240

**SECTION 2: Hazards identification****2.2. Label elements**

Regulation (EC) No. 1272/2008

Signal word: Warning

Pictograms:

**Hazard statements**

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.

**Precautionary statements**

P501 Entsorgung des Inhalts / des Behälters gemäß den örtlichen / regionalen / nationalen / internationalen Vorschriften.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P280 Wear protective gloves and eye/face protection.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

**Additional advice on labelling**

The product is classified and labelled under the EC Directives/hazardous substances laws (GefStoffV).

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**SECTION 3: Composition/information on ingredients****3.1. Substances****Chemical characterization**

double-constituent epoxy resin

**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
9072-62-2	Polypropylenglykoldiglycidether			100 %

Full text of H and EUH statements: see section 16.

**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
9072-62-2		Polypropylenglykoldiglycidether	100 %
	dermal: LD50 = >2.000 mg/kg; oral: LD50 = >2.000 mg/kg		

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Immediately remove any clothing contaminated with product.

**After inhalation**

consult a doctor.

**After contact with skin**

Immediately with water and soap and rinse thoroughly. Consult a doctor if skin irritation persists.

**After contact with eyes**

After contact with eye rinse immediately with lot of water at least 5 minutes with open eyelid. Subsequently consult an ophthalmologist. May cause superficial burns.

**After ingestion**

Rinse opened eye for several minutes with running water. Consult a doctor if symptoms persist.

**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 media**CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol-resistant foam.**Unsuitable extinguishing media**

Water in full jet.

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

Formation of toxic gases possible during heating or in case of fire. In the event of fire, the following may be released Carbon monoxide (CO)

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**5.3. Advice for firefighters**

Wear a protective full body suit. Wear breathing apparatus with own air supply.

**Additional information**

Fire residue and contaminated firefighting water must be disposed of in accordance with government regulations.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General measures**

Wear personal protection equipment. Keep unprotected persons at a safe distance.

**6.2. Environmental precautions**

Do not discharge into drains, surface or groundwater. Do not allow to enter subsoil/soil/subsoil. If product enters water course or sewage system, notify competent authorities.

**6.3. Methods and material for containment and cleaning up****For containment**

Absorb with liquid-binding material (sand, diatomaceous earth, acid binders, universal binders, sawdust).

**Other information**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Formation of toxic gases is possible during heating or in case of fire.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

The usual precautionary measures for handling chemicals must be observed. Ensure good ventilation/exhaustion at the workplace.

**Advice on protection against fire and explosion**

Protect from heat.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Store only in the original container. Store in a cool place. Store containers tightly closed, dry, frost-free.

**Hints on joint storage**

Store away from foodstuffs.

**Further information on storage conditions**

Keep containers tightly closed. Store in a cool, dry place in tightly closed containers. Protect from heat and direct sunlight.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****8.2. Exposure controls****Protective and hygiene measures**

Keep away from food, drink and animal feeding stuffs. Immediately remove contaminated, soaked clothing. Wash hands before breaks and at the end of work. Avoid contact with eyes and skin.

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**Eye/face protection**

Tightly sealed safety glasses. (EN 166)

**Hand protection**

Gloves made of plastic.

Use only chemical - protective gloves with a CE marking of category III. To minimize wetness in the glove due to perspiration, change gloves during a shift. Before each new use of the glove, check for leaks. Preventive skin protection by using skin protectant is recommended.

Glove material

Nitrile rubber, fluororubber (Viton). Recommended material thickness: = 0.5 mm. The selection of a suitable glove depends not only on the material, but also on other quality characteristics and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of glove materials cannot be calculated in advance and must therefore be checked before use.

Penetration time of the glove material: The exact penetration time must be obtained from the protective glove manufacturer and must be observed.

Gloves made of the following materials are not suitable: Gloves made of leather. Gloves made of thick fabric.

**Skin protection**

Wear protective clothing. (EN 340)

**Respiratory protection**

In case of insufficient ventilation, use respiratory protection.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	colourless
Odour:	Almost odorless

**Test method****Changes in the physical state**

Boiling point or initial boiling point and boiling range:	> 200 °C
Flash point:	> 183 °C
Auto-ignition temperature:	> 300 °C DIN 51794
Vapour pressure: (at 20 °C)	< 0,1 hPa
Density (at 23 °C):	1,04 g/cm <sup>3</sup> ISO 2811-2
Viscosity / dynamic: (at 25 °C)	65 mPa·s ISO 3219

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No further relevant information available.

**10.2. Chemical stability**

Thermal decomposition / conditions to be avoided: No decomposition if used as directed.

**10.3. Possibility of hazardous reactions**

Reactions with strong oxidizing agents, alkalis, amines and acids. Reaction with amines. Polymerization with evolution of heat.

**10.4. Conditions to avoid**

No further relevant information available.

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**10.5. Incompatible materials**

Strong oxidizing agents.

**10.6. Hazardous decomposition products**

None, if stored and handled properly. In case of fire: toxic gases and vapors.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
9072-62-2	Polypropylenglykoldiglycidether				
	oral	LD50 >2.000 mg/kg	rat		
	dermal	LD50 >2.000 mg/kg	rabbit		

**Irritation and corrosivity**

Causes skin irritation. Causes serious eye irritation.

**Sensitising effects**

May cause an allergic skin reaction.

**Specific effects in experiment on an animal**rabbit: Irritant effect on the skin: Irritant effect on the eye:  
Inhalation may cause sensitisation.**SECTION 12: Ecological information****12.2. Persistence and degradability**

The product is hardly biodegradable.

**12.4. Mobility in soil**

Bioaccumulation possible.

**Further information**

Do not let the product enter the groundwater, open water, or the sewerage system.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Dispose of waste according to applicable legislation. e.g. transfer to a suitable incineration plant Waste key numbers are assigned according to the European Waste Catalogue (EWC) depending on the sector and process type.

**Contaminated packaging**

Dispose of waste according to applicable legislation.

**SECTION 14: Transport information****Land transport (ADR/RID)****14.3. Transport hazard class(es):** No dangerous good in sense of these transport regulations.**Other applicable information (land transport)**

No dangerous good in sense of this transport regulation.

**Inland waterways transport (ADN)**

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**Other applicable information (inland waterways transport)**

No dangerous good in sense of this transport regulation.

**Marine transport (IMDG)****Other applicable information (marine transport)**

No dangerous good in sense of this transport regulation.

**Air transport (ICAO-TI/IATA-DGR)****Other applicable information (air transport)**

No dangerous good in sense of this transport regulation.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information****Additional information**

Contains epoxy constituents. See information supplied by the manufacturer.

**National regulatory information**

Water hazard class (D): 1 - slightly hazardous to water

**Additional information**

APME document: "Epoxidharze und Härter (Toxikologie, Arbeitssicherheit, Umwelt)" ("Epoxy resins and hardeners (toxicology, work safety, environment)")

**SECTION 16: Other information****Changes**

This data sheet contains changes from the previous version in section(s): 1,2,3,4,5,6,7,8,9,10,11,12,13,15.

**Relevant H and EUH statements (number and full text)**

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

**Further Information**

Avoid contact with the eyes and skin.