

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 7 Jan 2021

Print date: 14 Jan 2021

Version: 2.1

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Repair Resin Standard

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

1.1 Product identifier

Trade name/designation:

Repair Resin Standard

Other means of identification:

This safety data sheet is also valid for the following product names: Pit Filler Resin Standard / Repair Resin Extra, thin / Pit Filler Resin Extra, thin / Pit Filler Resin Extra AF, thin, acid-free / Repair Resin ExtraPlus, extra thin / Repair Resin ExtraPlus AF, extra thin, acid-free
UFI: 3H00-60XY-N00K-TDUQ

Article No.:

VR-205, VR-215, VR-305, VR-315, VR-405, VR-415, VR-405AF, VR-415AF, VR-505, VR-515, VR-505AF, VR-515AF

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

Use of the substance/mixture:

Fillers, putties.
Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

ProGlass GmbH
Michael-Becker-Str. 2
73235 Weilheim an der Teck
GERMANY

Telephone: +49 7023 90013-0

Telefax: +49 7023 90013-23

E-mail: info@proglass.de

Website: www.proglass.de

E-mail (competent person): info@proglass.de

1.4 Emergency phone number

24h: +49 551 19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	Calculation
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	Calculation
Respiratory or skin sensitisation (<i>Skin Sens. 1</i>)	H317: May cause an allergic skin reaction.	Calculation
STOT-single exposure (<i>STOT SE 3</i>)	H335: May cause respiratory irritation.	Calculation
Hazardous to the aquatic environment (<i>Aquatic Chronic 1</i>)	H410: Very toxic to aquatic life with long lasting effects.	Calculation

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2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



GHS07

Exclamation mark



GHS09

Environment

Signal word: Warning

Hazard components for labelling:

[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane; 2-Hydroxyethyl methacrylate; exo-1,7,7-Trimethylbicyclo[2.2.1]hept-2-yl acrylate

Hazard statements for health hazards

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Hazard statements for environmental hazards

H410	Very toxic to aquatic life with long lasting effects.
------	---

Supplemental hazard information

EUH205	Contains epoxy constituents. May produce an allergic reaction.
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Precautionary statements - Prevention

P280	Wear protective gloves and eye/face protection.
------	---

Precautionary statements - Response

P312	Call a POISON CENTER/doctor if you feel unwell.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.

Precautionary statements - Disposal

P501	Dispose of contents/container to an appropriate recycling or disposal facility.
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2.3 Other hazards

No data available.

SECTION 3: Composition / information on ingredients

3.2 Mixtures

Ingredients:

Product identifiers	Substance name Classification according to Regulation (EC) No. 1272/2008 [CLP]	Content
CAS No.: 868-77-9 EC No.: 212-782-2	2-Hydroxyethyl methacrylate Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1 Warning H315-H317-H319	40 - 50 weight-%
CAS No.: 5888-33-5 EC No.: 227-561-6	exo-1,7,7-Trimethylbicyclo[2.2.1]hept-2-yl acrylate Aquatic Acute 1, Aquatic Chronic 1, Eye Irrit. 2, STOT SE 3, Skin Irrit. 2, Skin Sens. 1 Warning H315-H317-H319-H335-H410	40 - 50 weight-%
CAS No.: 2530-83-8 EC No.: 219-784-2	[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane Eye Dam. 1 Danger H318	1 - 5 weight-%

Full text of H- and EUH-phrases: see section 16.

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SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing immediately. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

Following inhalation:

Provide fresh air.

In case of skin contact:

After contact with skin, wash immediately with plenty of water. In case of skin irritation, consult a physician.

After eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

Following ingestion:

Rinse mouth immediately and drink plenty of water. Get medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

Causes serious eye irritation. May cause skin irritation. May cause an allergic skin reaction. May cause respiratory irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Water spray jet, alcohol resistant foam, Extinguishing powder, Carbon dioxide (CO₂).

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products:

In case of fire may be liberated: carbon oxides (CO_x), Gases/vapours, toxic.

5.3 Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4 Additional information

Use water spray jet to protect personnel and to cool endangered containers. Move undamaged containers from immediate hazard area if it can be done safely. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Personal precautions:

Provide adequate ventilation. Avoid contact with eyes and skin. Remove persons to safety.

Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection. See section 8.

6.1.2 For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

Do not allow to enter into soil/subsoil.

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6.3 Methods and material for containment and cleaning up

For containment:

Wipe with absorbent material (e.g. cloth, fleece). Handling larger quantities: Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up:

Wash with plenty of water.

6.4 Reference to other sections

Safe handling: see section 7,

Personal protection equipment: see section 8,

Disposal: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Advices on safe handling:

Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Wear personal protection equipment (refer to section 8). Provide eye shower and label its location conspicuously.

Fire prevent measures:

No special fire protection measures are necessary.

Environmental precautions:

Discharge into the environment must be avoided.

Advices on general occupational hygiene

When using do not eat, drink or smoke. Take off contaminated clothing and wash it before reuse. Avoid contact with eyes and skin. Wash hands and face before breaks and after work and take a shower if necessary. Draw up and observe skin protection programme.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

Requirements for storage rooms and vessels:

Floors should be impervious, resistant to liquids and easy to clean. Keep/Store only in original container.

Hints on storage assembly:

Do not store together with: Oxidizing agent. Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions:

Protect from frost and heat. Protect from sunlight. Protect from moisture.

7.3 Specific end use(s)

Recommendation:

Fillers, putties.

Observe instructions for use.

SECTION 8: Exposure controls / Personal protection

8.1 Control parameters

No data available.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

8.2.2 Personal protection equipment



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Eye/face protection:

Eye glasses with side protection (EN 166).

Skin protection:

Recommendation: Tested protective gloves must be worn (EN ISO 374).

Suitable material: IIR (Butyl rubber)

Material thickness: $\geq 0,5$ mm

Breakthrough time: ≥ 480 mm

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. The exact breakthrough time must be requested from the protective glove manufacturer and must be observed. Check leak tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well.

Respiratory protection:

Usually no personal respiratory protection necessary. Provide adequate ventilation.

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Use appropriate respiratory protection.

Combination filtering device, Filter type A1-P2/P3.

Other protection measures:

Wear suitable protective clothing.

8.2.3 Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: liquid

Colour: colourless, clear

Odour: like: Acrylate

Safety relevant basic data

Parameter	at	Method	Remark
pH	<i>not applicable</i>		
Melting point	<i>not determined</i>		
Freezing point	<i>not determined</i>		
Initial boiling point and boiling range	<i>not determined</i>		
Decomposition temperature	<i>not determined</i>		
Flash point	<i>not determined</i>		
Evaporation rate	<i>not determined</i>		
Auto-ignition temperature	<i>not determined</i>		
Upper/lower flammability or explosive limits	<i>not applicable</i>		
Vapour pressure	<i>not determined</i>		
Vapour density	<i>not determined</i>		
Density	<i>not determined</i>		
Bulk density	<i>not applicable</i>		
Water solubility	insoluble		
Partition coefficient: n-octanol/water	<i>not determined</i>		
Dynamic viscosity	<i>not determined</i>		
Kinematic viscosity	<i>not determined</i>		

9.2 Other information

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

See section 10.3

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10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions. Can polymerise exothermically if heated, exposed to air, sunlight or by addition of free radical initiators. Exothermal decomposition with formation of: carbon dioxide (CO₂).

10.4 Conditions to avoid

Protect from frost and heat. Protect from sunlight. Protect from moisture.

10.5 Incompatible materials

Materials to avoid: Alkali (lye), concentrated; acids, concentrated; oxidizing agent.

10.6 Hazardous decomposition products

No known hazardous decomposition products. In case of fire may be liberated: carbon oxides (CO_x), Gases/vapours, toxic.

Further information

No data available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity:

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

Acute dermal toxicity:

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

Acute inhalation toxicity:

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

Skin corrosion/irritation:

Causes skin irritation.

Serious eye damage/irritation:

Causes serious eye irritation.

Respiratory or skin sensitisation:

May cause an allergic skin reaction. People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this mixture.

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:

May cause respiratory irritation.

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.

Additional information:

No data available.

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SECTION 12: Ecological information

12.1 Toxicity

CAS No.	Substance name	Toxicological information
5888-33-5	exo-1,7,7-Trimethylbicyclo[2.2.1]hept-2-yl acrylate	LC₅₀ : 0.704 mg/L 4 d (fish, Danio rerio (zebrafish)) OECD 203 ErC₅₀ : 0.596 mg/L 3 d (Pseudokirchneriella subcapitata) OECD 201

Aquatic toxicity:

Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

CAS No.	Substance name	Biodegradation	Remark
5888-33-5	exo-1,7,7-Trimethylbicyclo[2.2.1]hept-2-yl acrylate	Yes, slowly	

Biodegradation:

Not readily biodegradable (according to OECD criteria)

12.3 Bioaccumulative potential

CAS No.	Substance name	Log K _{OW}	Bioconcentration factor (BCF)
5888-33-5	exo-1,7,7-Trimethylbicyclo[2.2.1]hept-2-yl acrylate	4.52	

Accumulation / Evaluation:

Based on the n-octanol/water partition coefficient accumulation in organisms is possible.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
5888-33-5	exo-1,7,7-Trimethylbicyclo[2.2.1]hept-2-yl acrylate	—

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste treatment options

Appropriate disposal / Product:

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:

Dispose of waste according to applicable legislation. Completely emptied packages can be recycled.

Other disposal recommendations:

The allocation of waste code numbers / waste names must be carried out in accordance with the European Waste Catalogue (EWC). Collect in closed and suitable containers for disposal. Do not allow to enter into surface water or drains.

13.2 Additional information

Waste for disposal is to be classified and labelled.

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SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI-/IATA-DGR)
14.1 UN-No.			
3082	3082	3082	3082
14.2 UN proper shipping name			
ENVIRONMENTALLY HAZARDOUS SUB- STANCE, LIQUID, N.O.S. (exo-1,7,7-Trimethylb icyclo[2.2.1]hept-2-yl acrylate)	ENVIRONMENTALLY HAZARDOUS SUB- STANCE, LIQUID, N.O.S. (exo-1,7,7-Trimethylb icyclo[2.2.1]hept-2-yl acrylate)	ENVIRONMENTALLY HAZARDOUS SUB- STANCE, LIQUID, N.O.S. (exo-1,7,7-Trimethylb icyclo[2.2.1]hept-2-yl acrylate)	ENVIRONMENTALLY HAZARDOUS SUB- STANCE, LIQUID, N.O.S. (exo-1,7,7-Trimethylb icyclo[2.2.1]hept-2-yl acrylate)
14.3 Transport hazard class(es)			
 9	 9	 9	 9
14.4 Packing group			
III	III	III	III
14.5 Environmental hazards			
		 MARINE POLLUTANT	
14.6 Special precautions for user			
No data available.			

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

not relevant

Additional information:

No data available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1 EU legislation

Other EU regulations:

Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

15.1.2 National regulations

No data available.

15.2 Chemical Safety Assessment

No data available.

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SECTION 16: Other information

16.1 Indication of changes

Changes executed in version 2.0:

Section 2 und 14: classification, Label elements

General revision

Changes executed in version 2.1:

Section 1: UFI

General revision

16.2 Abbreviations and acronyms

See overview table at www.euphrac.eu

16.3 Key literature references and sources for data

European Chemicals Agency (ECHA): <http://www.echa.europa.eu>

ECHA, C&L Inventory: <http://echa.europa.eu/information-on-chemicals/cl-inventory-database>

ECHA, Registered substances: <http://echa.europa.eu/information-on-chemicals/registered-substances>

GESTIS (Gefahrstoffinformationssystem der DGUV): <http://www.dguv.de/ifa/GESTIS/index.jsp>

Hörath Gefährliche Stoffe und Gemische, 8. Auflage, Dr. Angela Schulz

Safety data sheets of the manufacturers

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No. 1272/2008 [CLP]

Classification according to Regulation (EC) No. 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	Calculation
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	Calculation
Respiratory or skin sensitisation (<i>Skin Sens. 1</i>)	H317: May cause an allergic skin reaction.	Calculation
STOT-single exposure (<i>STOT SE 3</i>)	H335: May cause respiratory irritation.	Calculation
Hazardous to the aquatic environment (<i>Aquatic Chronic 1</i>)	H410: Very toxic to aquatic life with long lasting effects.	Calculation

16.5 Relevant H- and EUH-phrases

Hazard statements	
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H410	Very toxic to aquatic life with long lasting effects.

16.6 Training advice

No data available.

16.7 Additional information

The information in this safety data sheet has been established to our best knowledge and was up-to-date at time of revision. The information is intended to give you advice about the safe handling of the product for storage, processing, transport and disposal. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.