

Safety data sheet according to Regulation (EC) No. 1907/2006 (REACH), Article 31

Version number: 1.4 / Creation date: 20.06.2022

Adjustment adhesive / Liquid metal, hardener

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Trade name: Adjustment adhesive / liquid metal, hardener
Article number: #62400233
UFI code: EACR-RTKG-ES5A-U1HA

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

1.2.1 Relevant uses Adhesive

1.2.2 Uses advised against None known

1.3. Details of the supplier of the safety data sheet

Company name: Baumann Dental GmbH
Street/P.O. Box: Im Hölderle 5
Post code, Place: D-75196 Remchingen
Internet: www.baumann-dental.de
@-mail: info@baumann-dental.de
Telephone: +49 (0) 7232 - 73218 - 0
Telefax: +49 (0) 7232 - 73218 - 99

Department responsible for information:

Telephone: +49 (0) 7232 - 73218 - 0
E-mail: info@baumann-dental.de

1.4. Emergency telephone number

Germany: +49(0)551-19240 (Poison Information Centre North, 24h in German and English)
Austria: +43(0)1-4064343 (Poison Information Centre, 24h)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture [REGULATION (EC) No. 1272/2008]

Skin Sens. 1B: H317 May cause an allergic skin reaction.
Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

The product is subject to labelling according to the Regulation (EC) 1272/2008 (CLP).

Hazard pictograms



Signal word: ATTENTION

| | |
|---------------------------|--|
| Contains: | Poly(oxy(methyl-1,2-ethanediyl)), alpha-hydro-omega-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether |
| Hazard statements: | H317 May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects. |
| Precautionary statements: | P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P273 Avoid release to the environment. P280 Wear protective gloves. P333 + P313 If skin irritation or rash occurs: Get medical advice/attention. P501 Dispose of contents/container according to local/national regulations. |
| Special labelling: | EUH212 Warning! Hazardous respirable dust may be formed when used. Do not breathe dust. |

2.3 Other hazards

Health hazards: Frequent and prolonged skin contact may cause skin irritation.
Environmental hazards: Does not contain PBT or vPvB substances.
Other hazards: No other hazards have been identified based on current knowledge.

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SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substances:

Not applicable

3.2. Mixtures:

This product is a mixture.

| Content [%] | Component |
|-------------|--|
| 30-50 | Poly(oxy(methyl-1,2-ethanediyl)), alpha-hydro-omega-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propane-diol (4:1), 2-hydroxy-3-mercaptopropyl ether |
| | CAS: 72244-98-5, EINECS/ELINCS: 615-735-8, Reg No.: 01-2120118957-46 |
| | GHS/CLP: Skin Sens. 1B: H317 - Aquatic Chronic 3: H412 |
| 30-50 | Limestone |
| | CAS: 1317-65-3, EINECS/ELINCS: 215-279-6 |
| 10-30 | Barium sulphate |
| | CAS: 7727-43-7, EINECS/ELINCS: 231-784-4 |
| 1 - <10 | 2,4,6-Tris(dimethylaminomethyl)phenol |
| | CAS: 90-72-2, EINECS/ELINCS: 202-013-9, EU-INDEX: 603-069-00-0 |
| | GHS/CLP: Acute Tox. 4: H302 - Eye Irrit. 2: H319 - Skin Irrit. 2: H315 |
| 1-5 | Talc (Mg ₃ H ₂ (SiO ₃) ₄) |
| | CAS: 14807-96-6, EINECS/ELINCS: 238-877-9 |
| 1-5 | Titanium dioxide |
| | CAS: 13463-67-7, EINECS/ELINCS: 236-675-5, Reg No.: 01-2119489379-17-XXXX |

Comments on components:

SVHC list (candidate list of Substances of Very High Concern for authorisation):

Contains none or less than 0.1% of the listed substances.

Wording of the listed H statements is given in SECTION 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General notes:

Take off contaminated clothing and wash it before reuse.

If inhaled:

Provide for fresh air.

If symptoms develop, get medical treatment.

In case of skin contact:

Wash with plenty of water and soap immediately after contact with the skin.

If skin irritation persists, consult a doctor.

In case of eye contact:

Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists:

Get medical advice/attention.

If swallowed:

Get medical treatment.

Rinse mouth and drink lots of water.

Do not induce vomiting.

4.2 Most important acute or delayed symptoms and effects

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Give the safety data sheet to the doctor.

Additional notes: Prevent penetration of extinguishing water into surface waters or groundwater.

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SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Foam, dry powder, water spray, carbon dioxide.

Unsuitable extinguishing media: Full water jet.

5.2 Special hazards arising from the substance or mixture

Danger of forming toxic pyrolysis products.

5.3 Advice for firefighters

Use self-contained breathing apparatus.

Fire residues and contaminated extinguishing water must be disposed of in accordance with local official regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

Particular risk of slipping due to leaked/spilled product.

6.2 Environmental precautions

Prevent spreading over a wider area (e.g. by damming or oil barriers).

Do not allow to enter the sewage system/surface water/groundwater.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, sawdust, universal binders, diatomite).

Dispose of the collected material according to regulations.

6.4 Reference to other sections

See SECTIONS 8+13

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

No special measures required if used correctly.

Wash hands prior to breaks and at the end of work.

Preventive skin protection by applying skin protection ointment.

Do not eat, drink or smoke when using this product.

7.2 Conditions for safe storage, including any incompatibilities

Only store in the original container.

Do not store together with oxidants.

Keep containers tightly closed.

Keep cool. Keep dry.

Protect against warming/overheating.

Recommended storage temperature: 5°C – 30°C

Storage class:

(TRGS 510) LGK 10-13

7.3 Specific end uses

See product use, SECTION 1.2

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits (DE)

| |
|---|
| Component |
| Talc (Mg ₃ H ₂ (SiO ₃) ₄) |
| CAS: 14807-96-6, EINECS/ELINCS: 238-877-9 |
| Occupational exposure limit: General dust limit: inhalable fraction 10 mg/m ³ , respirable fraction 1.25 mg/m ³ , exceedance factor 2(II), AGS, DFG |

DNEL

| |
|--|
| Component |
| Titanium dioxide, CAS: 13463-67-7 |
| Industry, inhalation, long-term local effects: 10 mg/m ³ . |
| Trades, inhalation, long-term local effects: 10 mg/m ³ . |
| Consumers, oral, long-term systemic effects: 700 mg/kg/d. |
| Poly(oxy(methyl-1,2-ethanediyl)), alpha-hydro-omega-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether, CAS: 72244-98-5 |
| Industry, dermal, long-term systemic effects: 2.7 mg/kg bw/d (AF=90). |
| Industry, inhalation, long-term systemic effects: 22 mg/m ³ (AF=6). |
| Consumers, oral, long-term systemic effects: 1.9 mg/kg bw/d (AF=40). |
| Consumers, inhalation, long-term systemic effects: 6.52 mg/m ³ (AF=10). |
| Consumers, dermal, long-term systemic effects: 1.61 mg/kg bw/d (AF=150). |

PNEC

| |
|--|
| Component |
| Titanium dioxide, CAS: 13463-67-7 |
| Oral ingestion (foods), 1667 mg/kg. |
| Soil (agricultural), 100 mg/kg. |
| Sediment (sea water), 100 mg/kg. |
| Sediment (fresh water), 1000 mg/kg. |
| Sewage plant/ sewage treatment plant (STP), 100 mg/L. |
| Sea water, 1 mg/L. |
| Fresh water, 0.127 mg/L. |
| Poly(oxy(methyl-1,2-ethanediyl)), alpha-hydro-omega-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether, CAS: 72244-98-5 |
| Soil (agricultural), 23 µg/kg dw. |
| Sediment (sea water), 32 µg/kg dw. |
| Sediment (fresh water), 322 µg/kg dw. |
| Sewage plant/ sewage treatment plant (STP), 10 mg/L (AF=100). |
| Sea water, 7 µg/L (AF=500). |
| Fresh water, 70 µg/L (AF=50). |

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8.2 Exposure controls

Additional information on the design of technical systems:

Eye protection:

Hand protection:

Body protection:

Other protective measures:

Respiratory protection:

Thermal hazards:

Environmental exposure controls and monitoring:

Ensure sufficient ventilation at the workplace.

Safety goggles. (EN 166:2001)

The information provided is a recommendation.

For more information, please contact the glove supplier.

With prolonged contact: >0.5 mm; butyl rubber, >120 min (EN 374-1/-2/-3).

Not required under normal conditions.

The type of personal protective equipment must be selected specifically for the workplace, depending on the concentration and quantity. The chemical resistance of the protective items must be clarified with their suppliers.

Avoid contact with eyes and skin.

Not required under normal conditions.

Not applicable

Comply with applicable environmental guidelines that limit discharge to air, water and soil.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Form:

Paste

Colour:

White

Odour:

Characteristic

Odour threshold:

No information available

pH value:

No information available

pH value [1%]:

Not applicable

Initial boiling point and boiling range [°C]:

Not applicable

Flash point [°C]:

>93

Flammability (solid, gaseous) [°C]:

No information available

Lower flammability or explosion threshold:

Not applicable

Upper flammability or explosion threshold:

Not applicable

Oxidising properties:

No

Vapour pressure [kPa]:

No information available

Relative density [g/ml]:

1.69

Bulk density [kg/m³]:

Not applicable

Solubility in water:

Insoluble

Distribution coefficient [n-octanol/water]:

No information available

Viscosity:

No information available

Vapour density:

No information available

Evaporation rate:

No information available

Melting point/freezing point [°C]:

No information available

Auto-ignition temperature [°C]:

No information available

Decomposition temperature [°C]:

No information available

9.2 Other information

No information available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

None known if used as intended.

10.2 Chemical stability

Stable under normal ambient conditions (room temperature).

10.3 Possibility of hazardous reactions

Reactions with strong oxidants.

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10.4 Conditions to avoid

Intense heating.

10.5 Incompatible materials

Strong oxidising agents
Amines.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

| Product |
|----------------------------------|
| ATE-mix, dermal, >2000 mg/kg bw. |
| ATE-mix, oral, >2000 mg/kg bw. |

| Component |
|--|
| 2,4,6-Tris(dimethylaminomethyl)phenol, CAS: 90-72-2 |
| LD50, oral, rat: 1200 mg/kg (RTECS). |
| LD50, dermal, rat: 1280 mg/kg IUCLID. |
| LD50, oral, rat: 1916-2455 mg/kg IUCLID. |
| Barium sulphate, CAS: 7727-43-7 |
| LD50, oral, rat: >2000 mg/kg (Lit.). |
| Titanium dioxide, CAS: 13463-67-7 |
| LD50, dermal, rabbit: >5000 mg/kg. |
| LD50, oral, rat: >5000 mg/kg (OECD 425). |
| LC50, inhalation, rat: >6.8 mg/L/4h. |
| NOAEL, oral, rat: 3500 mg/kg/d (90 d). |
| NOAEC, inhalation, rat: 10 mg/m ³ (90 d). |
| Poly(oxy(methyl-1,2-ethanediyl)), alpha-hydro-omega-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether, CAS: 72244-98-5 |
| LD50, dermal, rabbit: >10,200 mg/kg bw. |
| LD50, oral, rat: 2600 mg/kg bw. |
| LC50, inhalation, rat: >0.1 mg/L. |

Serious eye damage/irritation

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

Skin corrosion/ irritation

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

Respiratory/skin sensitisation

May cause an allergic skin reaction.

Calculation method

Based on the available information, the classification criteria are met.

Specific target organ toxicity at single exposure

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

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STOT - repeated exposure

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

Mutagenicity

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

Reproductive toxicity

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

Carcinogenicity

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

Aspiration hazard

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

General comments

Toxicology data are not available for the overall product.

The toxicology data provided for the ingredients are intended for allied medical professions, specialists in occupational health and safety, and toxicologists.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

| |
|--|
| Product |
| Based on the available information, the classification criteria are not met. |

| |
|--|
| Component |
| Barium sulphate, CAS: 7727-43-7 |
| EC50, (48 h), Daphnia magna: 32 mg/L (Lit.). |
| Talc (Mg ₃ H ₂ (SiO ₃) ₄), CAS: 14807-96-6 |
| LC50, (24 h), Brachydanio rerio: >100 mg/L (IUCLID). |
| Titanium dioxide, CAS: 13463-67-7 |
| LC50, (48 h), Daphnia magna: >100 mg/L (OECD 202). |
| LC50, (96 h), Oncorhynchus mykiss: >100 mg/L (OECD 203). |
| LC50, (96 h), Pimephales promelas: >1000 mg/L. |
| EC50, (72 h), Pseudokirchneriella subcapitata: 16 mg/L. |
| NOEC, (28 d), bacteria: >100,000 mg/kg (ASTM 1706). |
| Poly(oxy(methyl-1,2-ethanediyl)), alpha-hydro-omega-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether, CAS: 72244-98-5 |
| LC50, (96 h), Danio rerio: 87 mg/L. |
| EC50, (21 d), Daphnia magna: 3.5 mg/L. |
| EC50, (48 h), Daphnia magna: 12 mg/L. |
| ErC50, (72 h), Desmodesmus subspicatus: >733 mg/L. |

12.2 Persistence and degradability

Behaviour in environmental compartments: Not determined

Behaviour in sewage plants: Not determined

Biodegradability: Not determined

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12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Based on all available information, not to be classified as PBT or vPvB.

12.6 Other adverse effects

Environmental data are not available for the overall product.
Do not allow product to enter the sewage system unregulated.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product residues must be disposed of in compliance with Waste Directive 2008/98/EC and national and regional regulations. No waste code number according to the European Waste Catalogue (AVV) can be defined for this product, as only the intended use by the consumer allows a classification. In the EU, the waste code number is determined in consultation with the disposal company.

| | |
|------------------------|---|
| Product | Determine the disposal in agreement with authorities as necessary. Contact manufacturer about recycling. AVV No. (recommended) 080410 Adhesive and sealant waste with the exception of those that fall under 080409*. |
| Uncleaned packaging: | Uncontaminated packaging can be recycled. Packaging that cannot be cleaned must be disposed of in the same way as the substance itself. |
| AVV No. (recommended): | 150102 Plastic packaging. |

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

| | |
|---|----------------|
| Surface transport according to ADR/RID: | Not applicable |
| Inland waterway transport (ADN): | Not applicable |
| Transport by sea according to IMDG: | Not applicable |
| Air transport according to IATA: | Not applicable |

14.2 UN proper shipping name

| | |
|---|-----------------------------------|
| Surface transport according to ADR/RID: | NOT CLASSIFIED AS DANGEROUS GOODS |
| Inland waterway transport (ADN): | NOT CLASSIFIED AS DANGEROUS GOODS |
| Transport by sea according to IMDG: | NOT CLASSIFIED AS DANGEROUS GOODS |
| Air transport according to IATA: | NOT CLASSIFIED AS DANGEROUS GOODS |

14.3 Transport hazard classes

| | |
|---|----------------|
| Surface transport according to ADR/RID: | Not applicable |
| Inland waterway transport (ADN): | Not applicable |
| Transport by sea according to IMDG: | Not applicable |
| Air transport according to IATA: | Not applicable |

14.3 Transport hazard classes

| | |
|---|----------------|
| Surface transport according to ADR/RID: | Not applicable |
| Inland waterway transport (ADN): | Not applicable |
| Transport by sea according to IMDG: | Not applicable |
| Air transport according to IATA: | Not applicable |

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14.4 Packing group

Surface transport according to ADR/RID: Not applicable
Inland waterway transport (ADN): Not applicable
Transport by sea according to IMDG: Not applicable
Air transport according to IATA: Not applicable

14.5 Environmental hazards

Surface transport according to ADR/RID: No
Inland waterway transport (ADN): No
Transport by sea according to IMDG: No
Air transport according to IATA: No

14.6 Special precautions for user

Appropriate information in SECTIONS 6 to 8.

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

Not applicable

SECTION 15: REGULATORY INFORMATION

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

EU REGULATIONS: 2008/98/EC (2000/532/EC); 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014

TRANSPORT REGULATIONS: ADR (2019); IMDG code (2019, 39. Amdt.); IATA-DGR (2020)

NATIONAL REGULATIONS (DE): Hazardous Substances Ordinance – GefStoffV 2016; Detergents and Cleaning Agents Act – WRMG; Water Resources Act – WHG; TRGS: 200, 220, 510, 615, 900, 903, 905.

- Water hazard class: Z, pursuant to AwSV dated 18.04.2017

- Hazardous Incident Ordinance: No

- Classification according to TA-Air: Not applicable

- GISBAU, product code: Not determined

- Storage class: (TRGS 510) LGK 10-13

- Employment restrictions: Observe employment restrictions for expectant and breastfeeding mothers.
Observe employment restrictions for adolescents.

- VOC (2010/75/EU): Not applicable

- Other regulations: Not applicable

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture have not been conducted.

SECTION 16: OTHER INFORMATION

16.1 Hazard statements (SECTION 3)

H412 Harmful to aquatic life with long lasting effects.
H317 May cause an allergic skin reaction.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H302 Harmful if swallowed.

16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
AVV = European Waste Directory
ATE = acute toxicity estimate
BGI = Information from trade associations
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
DMEL = Derived Minimum Effect Level

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DNEL = Derived No Effect Level
 EC50 = Median effective concentration
 ECB = European Chemicals Bureau
 EEC = European Economic Community
 EINECS = European Inventory of Existing Commercial Chemical Substances
 EL50 = Median effective loading
 ELINCS = European List of Notified Chemical Substances
 EmS = Emergency Schedules
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
 IC50 = Inhibition concentration, 50%
 IFA = Institute for Occupational Safety and Health of the German Statutory Accident Insurance
 IMDG = International Maritime Code for Dangerous Goods
 IUCLID = International Uniform Chemical Information Database
 LC50 = Lethal concentration, 50%
 LD50 = Median lethal dose
 LCO = lethal concentration, 0%
 LOAEL = lowest-observed-adverse-effect level
 LGK = Storage Class
 LL50 = Median lethal loading
 LQ = Limited Quantities
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 NOAEL = No Observed Adverse Effect Level
 NOEC = No Observed Effect Concentration
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 STP = Sewage Treatment Plant
 TA-Air = Technical instructions on air quality control
 TLV®/TWA = Threshold limit value - time-weighted average
 TLV®STEL = Threshold limit value - short-time exposure limit
 TRGS = Technical rules for hazardous substances
 VOC = Volatile Organic Compounds
 vPvB = very Persistent and very Bioaccumulative
 AwSV: Ordinance on installations for handling substances hazardous to water

16.3 Other information

| | |
|------------------------|--|
| Customs tariff: | Not determined |
| Classification method: | Skin Sens. 1B: H317 May cause an allergic skin reaction. (calculation method) Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. (calculation method) |

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Changed positions

SECTION 3 Added: Talc ($\text{Mg}_3\text{H}_2(\text{SiO}_3)_4$)

SECTION 3 Added: Poly(oxy(methyl-1,2-ethanediyl)), alpha-hydro-omega-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether

SECTION 2 Added: Poly(oxy(methyl-1,2-ethanediyl)), alpha-hydro-omega-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether

SECTION 3 Deleted: Silicon dioxide, amorph

SECTION 3 Deleted: Magnesium carbonate

SECTION 3 Added: Titanium dioxide

SECTION 2 Added: The product is subject to labelling according to the Regulation (EC) 1272/2008 (CLP).

SECTION 2 Deleted: EUH210 Safety data sheet available on request.

SECTION 2 Deleted: The product is not subject to labelling according to the Regulation (EC) 1272/2008 (CLP).

SECTION 2 Added: Skin Sens. 1B

SECTION 2 Added: EUH212 Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

SECTION 2 Added: Exclamation mark

SECTION 2 Added: WARNING

SECTION 2 Added: H317 May cause an allergic skin reaction.

SECTION 2 Added: Aquatic Chronic 3

SECTION 2 Added: H412 Harmful to aquatic life with long lasting effects.

SECTION 11 Added: May cause an allergic skin reaction.

SECTION 15 Deleted: 1, as per AwSV dated 18.04.2017

SECTION 15 Added: 2, as per AwSV dated 18.04.2017

SECTION 15 Added: Observe employment restrictions for expectant and breastfeeding mothers.
Observe employment restrictions for adolescents.

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Adjustment adhesive / liquid metal, resin**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1. Product identifier**

Trade name: Adjustment adhesive / liquid metal, resin

Article number: #62400233

UFI code: EACR-RTKG-ES5A-U1HA

1.2. Relevant identified uses of the substance or mixture and uses advised against**1.2.1 Relevant uses** Adhesive**1.2.2 Uses advised against** None known**1.3. Details of the supplier of the safety data sheet**

Company name: Baumann Dental GmbH

Street/P.O. Box: Im Hölderle 5

Post code, Place: D-75196 Remchingen

Internet: www.baumann-dental.de@-mail: info@baumann-dental.de

Telephone: +49 (0) 7232 - 73218 - 0

Telefax: +49 (0) 7232 - 73218 - 99

Department responsible for information: telephone: +49 (0) 7232-73218-0 / @-mail: info@baumann-dental.de**1.4. Emergency telephone number**

Germany: +49(0)551-19240 (Poison Information Centre North, 24h in German and English)

Austria: +43(0)1-4064343 (Poison Information Centre, 24h)

SECTION 2: HAZARDS IDENTIFICATION**2.1. Classification of the substance or mixture [REGULATION (EC) No. 1272/2008]**

Skin Irrit. 2: H315 Causes skin irritation.

Eye Irrit. 2: H319 Causes serious eye irritation.

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

Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.

2.2. Label elements

Labelling (CLP)



Signal word: ATTENTION

Contains:

2,2'-(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane

Reaction product: Bisphenol-F-epichlorohydrin resins with an average molecular weight ≤ 700 **Hazard statements:**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of water/soap.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P501 Dispose of contents/container to an approved waste disposal company or local collection point.

Special labelling:

EUH205 Contains epoxy constituents. May produce an allergic reaction.

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2.3. Additional hazards

Health hazards:

Persons who react allergically to epoxides should avoid handling the product.

Other hazards:

No other hazards have been identified based on current knowledge.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable

3.2. Mixtures

This product is a mixture.

| Content [%] | Component |
|-------------|--|
| 30-50 | 2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane |
| | CAS: 1675-54-3, EINECS/ELINCS: 216-823-5, EU-INDEX: 603-073-00-2 |
| | GHS/CLP: Eye Irrit. 2: H319 - Skin Irrit. 2: H315 - Skin Sens. 1: H317 |
| 10-30 | Barium sulphate |
| | CAS: 7727-43-7, EINECS/ELINCS: 231-784-4 |
| 10-30 | Limestone |
| | CAS: 1317-65-3, EINECS/ELINCS: 215-279-6 |
| 5-10 | Reaction product: Bisphenol-F-epichlorohydrin resins with an average molecular weight ≤ 700 |
| | CAS: 9003-36-5, EINECS/ELINCS: 500-006-8 |
| | GHS/CLP: Skin Sens. 1: H317 - Skin Irrit. 2: H315 - Eye Irrit. 2: H319 - Aquatic Chronic 2: H411 |
| 1-5 | 1-5 Talc ($\text{Mg}_3\text{H}_2(\text{SiO}_3)_4$) |
| | CAS: 14807-96-6, EINECS/ELINCS: 238-877-9 |

Comments on components:

SVHC list (candidate list of Substances of Very High Concern for authorisation):

Contains none or less than 0.1% of the listed substances.

Wording of the listed H statements is given in SECTION 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General notes::

Change dusty clothing.

If inhaled:

Provide for fresh air.

If symptoms develop, get medical treatment.

In case of skin contact:

Wash with plenty of water and soap immediately after contact with the skin.

If skin irritation persists, consult a doctor.

Following eye contact

Immediately rinse eyes thoroughly with plenty of water and consult a doctor.

If swallowed:

Consult a doctor immediately.

Rinse mouth and drink lots of water.

Do not induce vomiting.

4.2 Most important acute or delayed symptoms and effects

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Foam, dry powder, water spray, carbon dioxide.

Unsuitable extinguishing media: Full water jet.

5.2 Special hazards arising from the substance or mixture

Danger of forming toxic pyrolysis products.

Carbon monoxide (CO)

Carbon dioxide (CO₂)

Chlorine compounds

5.3 Advice for firefighters

Do not inhale explosion and fire gases.

Use self-contained breathing apparatus.

Fire residues and contaminated extinguishing water must be

disposed of in accordance with local official regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

6.2 Environmental precautions

Prevent spreading over a wider area (e.g. by damming or oil barriers).

Do not allow to enter the sewage system/surface water/groundwater.

6.3. Methods and material for containment and cleaning up

Allow spilled product to solidify if safely possible.

Collect mechanically.

Absorb with liquid-binding material (e.g. sand, sawdust, universal binders, diatomite).

Dispose of the collected material according to regulations.

6.4 Reference to other sections

See SECTIONS 8+13

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Only use in well-ventilated areas.

Avoid spilling or spraying in enclosed rooms.

Take off contaminated clothing and wash before reuse.

Do not eat, drink or smoke when using this product.

Wash hands prior to breaks and at the end of work.

Preventive skin protection by applying skin protection ointment.

Contaminated work clothing must remain at the workplace.

7.2 Conditions for safe storage, including any incompatibilities

Only store in the original container.

Do not store together with oxidants.

Keep containers tightly closed.

Keep dry.

Protect against warming/overheating.

Recommended storage temperature: 5°C - 30°C

Protect from direct sunlight.

Storage class (TRGS 510) LGK 10:

Flammable liquids

7.3 Specific end uses

See product use, SECTION 1.2

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits (DE)

| |
|--|
| Component |
| Talc (Mg ₃ H ₂ (SiO ₃) ₄) |
| CAS: 14807-96-6, EINECS/ELINCS: 238-877-9 |
| Occupational exposure limit: General dust limit (see also number 2.4); respirable fraction: 1.25 A (mg/m ³); inhalable fraction: 10 E (mg/m ³); AGS, DFG |
| Peak limit exceedance factor: 2(II) |

8.2 Exposure controls

Additional information on the design of technical systems: Ensure sufficient ventilation at the workplace. Measurement methods for performing workplace measurements must meet the performance requirements of DIN EN 482. Recommendations are given, for example, in the IFA list of hazardous substances.

Eye protection: Tightly sealing safety goggles. (EN 166:2001)

Hand protection: The information provided is a recommendation. For more information, please contact the glove supplier. 0.2 mm; nitrile rubber, >120 min (EN 374-1/-2/-3).

Body protection: Impermeable protective clothing.

Other protective measures: The type of personal protective equipment must be selected specifically for the workplace, depending on the concentration and quantity of the hazardous substance.

The chemical resistance of the protective items must be clarified with their suppliers.

Avoid contact with eyes and skin.

Do not inhale gases/vapours/aerosols.

Respiratory protection: Wear respiratory protection if aerosols or mists form.

Short-term filter unit, filter A (DIN EN 14387)

Thermal hazards:

Not applicable

Environmental exposure controls and monitoring:

Comply with applicable environmental guidelines that limit discharge to air, water and soil.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| | |
|---|-----------------------------|
| Aggregate state: | Paste |
| Colour: | Black |
| Odour: | Characteristic |
| Odour threshold: | No information available |
| pH value: | Not applicable |
| pH value [1%]: | Not applicable |
| Initial boiling point and boiling range [°C]: | No information available |
| Flash point [°C]: | >93 |
| Flammability (solid, gaseous) [°C]: | No information available |
| Lower flammability or explosion threshold: | Not applicable |
| Upper flammability or explosion threshold: | Not applicable |
| Oxidising properties: | No |
| Vapour pressure [kPa]: | No information available |
| Relative density: | [g/ml] 1.74 (20°C / 68.0°F) |
| Bulk density [kg/m ³]: | Not applicable |
| Solubility in water: | Practically insoluble |
| Solubility in other solvents: | No information available |
| Distribution coefficient [n-octanol/water]: | No information available |
| Kinematic viscosity: | No information available |
| Relative vapour density: | No information available |
| Evaporation rate: | No information available |
| Melting point/freezing point [°C]: | No information available |
| Ignition temperature: | No information available |
| Decomposition temperature [°C]: | No information available |
| Particle properties: | No information available |
| Viscosity, dynamic: | Thixotropic |

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9.2 Other information

No information available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

None known if used as intended.

10.2 Chemical stability

Stable under normal ambient conditions (room temperature).

10.3 Possibility of hazardous reactions

Reactions with alkalis, amines and strong acids.

Reactions with strong oxidants.

10.4 Conditions to avoid

Intense heating.

10.5 Incompatible materials

See SECTION 10.3.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity: Not determined

| Component |
|---|
| 2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane, CAS: 1675-54-3 |
| LD50, oral, rat, > 4000 mg/kg (Lit.), |
| LD50, oral, mouse, 15,600 mg/kg (Lit.), |
| Barium sulphate, CAS: 7727-43-7 |
| LD50, oral, rat, > 2000 mg/kg (Lit.), |
| Reaction product: Bisphenol-F-epichlorohydrin resins with an average molecular weight ≤ 700 , CAS: 9003365 |
| LD50, oral, rat, > 2000 mg/kg (Lit.), |

Acute dermal toxicity: Not determined

| Component |
|---|
| 2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane, CAS: 1675-54-3 |
| LD50, dermal, rabbit, 20,000 mg/kg (Lit.), |

Acute inhalative toxicity:

Not determined

Severe eye damage/irritation:

Toxicology data is not available for the overall product.

Irritant

Calculation method

Corrosive/irritant effect on the skin:

Toxicology data is not available for the overall product.

Irritant

Calculation method

Sensitisation of the airways/skin:

Toxicology data is not available for the overall product.

May cause an allergic skin reaction.

Calculation method

Specific target organ toxicity for single exposure:

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

Specific target organ toxicity for repeated exposure:

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

Mutagenicity:

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

Reproduction toxicity:

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

Carcinogenicity:

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

Aspiration hazard:

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

General comments:

Toxicology data are not available for the overall product.

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SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

| |
|---|
| Component |
| 2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane, CAS: 1675-54-3 |
| LC50, (96 h), Pimephales promelas, 3.1 mg/L (OECD 203), |
| EC50, (48 h), Daphnia magna, 1.3 mg/L (OECD 202), |
| Barium sulphate, CAS: 7727-43-7 |
| EC50, (48 h), Daphnia magna, 32 mg/L (Lit.), |
| Reaction product: Bisphenol-F-epichlorohydrin resins with an average molecular weight ≤ 700 , CAS: 9003365 |
| LC50, (96 h), Leuciscus idus, 5.7 mg/L (Lit.), |
| EC50, (48 h), Daphnia magna, 3.5 mg/L (Lit.), |

12.2. Persistence and degradability

Behaviour in environmental compartments: Not determined
Behaviour in sewage plants: Not determined
Biodegradability: Not biodegradable

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Not applicable

12.6 Harmful endocrine properties

No information available.

12.7 Other adverse effects

The product is insoluble in water.
The product contains organically bound halogen according to the formulation.
Environmental data are not available for the overall product.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product residues must be disposed of in compliance with Waste Directive 2008/98/EC and national and regional regulations. No waste code number according to the European Waste Catalogue (AVV) can be defined for this product, as only the intended use by the consumer allows a classification. In the EU, the waste code number is determined in consultation with the disposal company.

| | |
|------------------------|--|
| Product: | Dispose of as hazardous waste. Send to an incineration plant for disposal according to local regulations. |
| AVV No. (recommended): | 080409* Adhesives and sealants waste containing organic solvents or other hazardous substances. |
| Uncleaned packaging: | Uncontaminated packaging can be recycled. Packaging that cannot be cleaned must be disposed of in the same way as the substance itself. |
| AVV No. (recommended): | 150110* Packaging containing residues of hazardous substances or contaminated by hazardous substances. |

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SECTION 14: TRANSPORT INFORMATION

14.1 UN number

| | |
|---|----------------|
| Surface transport according to ADR/RID: | Not applicable |
| Inland waterway transport (ADN): | Not applicable |
| Transport by sea according to IMDG: | Not applicable |
| Air transport according to IATA: | Not applicable |

14.2 UN proper shipping name

| | |
|---|-----------------------------------|
| Surface transport according to ADR/RID: | NOT CLASSIFIED AS DANGEROUS GOODS |
| Inland waterway transport (ADN): | NOT CLASSIFIED AS DANGEROUS GOODS |
| Transport by sea according to IMDG: | NOT CLASSIFIED AS DANGEROUS GOODS |
| Air transport according to IATA: | NOT CLASSIFIED AS DANGEROUS GOODS |

14.3 Transport hazard classes

| | |
|---|----------------|
| Surface transport according to ADR/RID: | Not applicable |
| Inland waterway transport (ADN): | Not applicable |
| Transport by sea according to IMDG: | Not applicable |
| Air transport according to IATA: | Not applicable |

14.4 Packing group

| | |
|---|----------------|
| Surface transport according to ADR/RID: | Not applicable |
| Inland waterway transport (ADN): | Not applicable |
| Transport by sea according to IMDG: | Not applicable |
| Air transport according to IATA: | Not applicable |

14.5 Environmental hazards

| | |
|---|----|
| Surface transport according to ADR/RID: | No |
| Inland waterway transport (ADN): | No |
| Transport by sea according to IMDG: | No |
| Air transport according to IATA: | No |

14.6 Special precautions for user

No information available.
Appropriate information in SECTIONS 6 to 8.

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

No information available.

SECTION 15: REGULATORY INFORMATION

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

| | |
|---------------------------------------|---|
| EU REGULATIONS | 2008/98/EC (2000/532/EC); 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014 |
| TRANSPORT REGULATIONS: | ADR (2021); IMDG code (2021, 40. Amdt.); IATA-DGR (2021) |
| NATIONAL REGULATIONS (DE): | Hazardous Substances Ordinance - GefStoffV 2016; Detergents and Cleaning Agents Act - WRMG; Water Resources Act - WHG; TRGS: 200, 220, 510, 615, 900, 903, 905. |
| - Water hazard class: | 2, pursuant to AwSV dated 18.04.2017 |
| - Hazardous Incident Ordinance: | Not applicable |
| - Classification according to TA-Air: | 5.2.5 Organic substances |
| - GISBAU, product code: | Not determined |
| - Storage class (TRGS 510): | LGK 10: Flammable liquids |
| - Restrictions of occupation: | Yes |
| - VOC (2010/75/EU): | Not relevant |
| - Other regulations TRGS 401: | Hazard due to skin contact. - Determination, assessment, measures. |
| - DGV Information 213-070: | Acids and bases (Bulletin M 004 in the series 'Hazardous Substances') TRGS 510: Storage of hazardous substances in non-stationary containers |

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture have not been conducted.

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SECTION 16: OTHER INFORMATION

16.1 Hazard statements (SECTION 3)

H411 Toxic to aquatic life with long lasting effects.
H317 May cause an allergic skin reaction.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
AVV = European Waste Directory
ATE = acute toxicity estimate
BGI = Information from trade associations
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration
ECB = European Chemicals Bureau
EEC = European Economic Community
EINECS = European Inventory of Existing Commercial Chemical Substances
EL50 = Median effective loading
ELINCS = European List of Notified Chemical Substances
EmS = Emergency Schedules
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50 = Inhibition concentration, 50%
IFA = Institute for Occupational Safety and Health of the German Statutory Accident Insurance
IMDG = International Maritime Code for Dangerous Goods
IUCLID = International Uniform Chemical Information Database
IVIS = In-vitro irritation score
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
LC0 = Lethal concentration, 0%
LOAEL = Lowest observed adverse effect level
LGK = Storage Class
LL50 = Median lethal loading
LQ = Limited Quantities
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
NOAEL = No Observed Adverse Effect Level
NOEC = No Observed Effect Concentration
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
STP = Sewage Treatment Plant
TA-Air = Technical instructions on air quality control
TLV®/TWA = Threshold limit value - time-weighted average
TLV®STEL = Threshold limit value - short-time exposure limit
TRGS = Technical rules for hazardous substances
VOC = Volatile Organic Compounds
vPvB = very Persistent and very Bioaccumulative
AwSV: Ordinance on installations for handling substances hazardous to water

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16.3 Other information

Customs tariff: Not determined

Classification method: Skin Irrit. 2: H315 Causes skin irritation. (calculation method)
Eye Irrit. 2: H319 Causes serious eye irritation. ()
Skin Sens. 1: H317 May cause an allergic skin reaction. ()
Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. ()

Changed position: SECTION 3 Deleted: Magnesium carbonate
SECTION 3 Added: 2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane
SECTION 2 Added: 2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane
SECTION 3 Added: Reaction product: Bisphenol-F-epichlorohydrin resins with an average molecular weight ≤ 700
SECTION 2 Added: Reaction product: Bisphenol-F-epichlorohydrin resins with an average molecular weight ≤ 700
SECTION 2 Deleted: Reaction product: Bisphenol-A-epichlorohydrin resins with an average molecular weight ≤ 700
SECTION 2 Deleted: Environment
SECTION 2 Deleted: Aquatic Chronic 2
SECTION 2 Added: H412 Harmful to aquatic life with long lasting effects.
SECTION 2 Deleted: H411 Toxic to aquatic life with long lasting effects.
SECTION 2 Deleted: P391 Collect spillage.
SECTION 2 Added: Aquatic Chronic 3
SECTION 14 Added: Not classified as dangerous goods
SECTION 14 Deleted: Environmentally hazardous substance, solid, n.o.s. (epoxy resin (bisphenol-F-epichlorohydrin resins, molecular weight ≤ 700))
SECTION 14 Added: Not classified as dangerous goods
SECTION 14 Deleted: Environmentally hazardous substance, solid, n.o.s. (Epoxy resin (Reaction product of epichlorohydrin & bisphenol F, number average molecular weight ≤ 700))
SECTION 14 Added: Not classified as dangerous goods
SECTION 14 Deleted: Environmentally hazardous substance, solid, n.o.s. (Epoxy resin (Reaction product of epichlorohydrin & bisphenol F, number average molecular weight ≤ 700))