Fax: 0049-(0)7223-284-245



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

Printing date 19.06.2015 Version number 15 Revision: 17.06.2015

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

- · 1.1 Product identifier
- · Trade name: UHU plus endfest 300 (Binder)
- · 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 Adhesives
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

UHU GmbH & Co.KG Herrmannstraße 7 D-77815 Bühl (Baden)

Tel.:0049-(0)7223-284-0 email: info@uhu.boltongroup.de

· Further information obtainable from: CRD

· 1.4 Emergency telephone number: Tel.: +49 (0) 72 23/28 40

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

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.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms





GHS07 GHS09

· Signal word Warning

· Hazard-determining components of labelling:

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)

reaction product: bisphenol-F-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)

· Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

· Precautionary statements

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

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P102 Keep out of reach of children.

P103 Read label before use.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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

P273 Avoid release to the environment. P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

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

P501 Dispose of contents/container in accordance with local/regional/national/

international regulations.

· Additional information:

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

- · 3.2 Mixtures
- · Description: Adhesive

| · Dangerous components: | | · |
|---|--|---------|
| CAS: 25068-38-6 NLP: 500-033-5 Reg.nr.: 01-2119456619-26-0002 | reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700) ♦ Aquatic Chronic 2, H411; ♦ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 | 70-100% |
| CAS: 9003-36-5 Reg.nr.: 01-2119454392-40-0000 | reaction product: bisphenol-F-(epichlorhydrin) | |
| • | 700) Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 | |

Additional information: For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

Supply fresh air; consult doctor in case of complaints.

· After skin contact:

If skin irritation continues, consult a doctor.

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 a doctor.

After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

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• 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:

Water spray

Carbon dioxide

Foam

Fire-extinguishing powder

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the following can be released:

Carbon monoxide (CO)

- 5.3 Advice for firefighters
- Protective equipment:

Do not inhale explosion gases or combustion gases.

No special measures required.

SECTION 6: Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures

 Ensure adequate ventilation
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Send for recovery or disposal in suitable receptacles.

· 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 disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Store in cool, dry place in tightly closed receptacles.

Prevent formation of aerosols.

- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- Storage
- · Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions:

Store receptacle in a well ventilated area.

Keep container tightly sealed.

- · Storage class: 12
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· Additional information about design of technical facilities: No further data; see item 7.

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· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- Personal protective equipment:
- · General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Avoid direct contact with the chemical/ the product/ the preparation by organisational measures.

- Respiratory protection: Not necessary if room is well-ventilated.
- Protection of hands:

Rubber gloves



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· 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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection: Not required.

SECTION 9: Physical and chemical properties

- · 9.1 Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Fluid Colour: Colourless

Odour: Weak, characteristicOdour threshold: Not determined.

· pH-value at 20 °C:

· Change in condition

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: Undetermined.

Flash point: Not applicable.

· Flammability (solid, gaseous): Not applicable.

· Ignition temperature:

Decomposition temperature: Not determined.

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| | (Contd. of page | |
|---|---|--|
| · Self-igniting: | Product is not selfigniting. | |
| · Danger of explosion: | Product does not present an explosion hazard. | |
| · Explosion limits: | | |
| Lower: | Not determined. | |
| Upper: | Not determined. | |
| · Vapour pressure: | Not determined. | |
| Density at 20 °C: | 1,15 g/cm³ | |
| · Relative density | Not determined. | |
| · Vapour density | Not determined. | |
| Evaporation rate Not determined. | | |
| · Solubility in / Miscibility with | | |
| water: | Not miscible or difficult to mix. | |
| Partition coefficient (n-octanol/wa | nter): Not determined. | |
| · Viscosity: | | |
| Dynamic: | Not determined. | |
| Kinematic at 20 °C: 40000 s (DIN 53211/4) | | |
| · Solvent content: | | |
| Organic solvents: 0,0 % | | |
| VOC (EC) | 0,00 % | |
| Solids content: | 91,0 % | |
| 9.2 Other information | No further relevant information available. | |

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 according to specifications.

· 10.3 Possibility of hazardous reactions

Exothermic polymerisation.

Reacts with amines.

- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity
- Primary irritant effect:
- · Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

- 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.

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- · 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.

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.
- · Ecotoxical effects:
- · Remark: Toxic for fish
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

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

- 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Disposal must be made according to official regulations.

European waste catalogue

08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances

- · Uncleaned packaging:
- Recommendation:

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

| SECTION 14: Transport informa | SECTION 14: Transport information | | |
|---------------------------------------|---|--|--|
| · 14.1 UN-Number · ADR, IMDG, IATA | UN3082 | | |
| · 14.2 UN proper shipping name | | | |
| ·ADR | 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700), reaction product: bisphenol-F-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)) 3082 UMWELTGEFÄHRDENDER STOFF, FLÜSSIG, N.A.G. (Reaktionsprodukt: Bisphenol-A-Epichlorhydrinharze mit durchschnittlichem | | |

Molekulargewicht ≤ 700, Bisphenol-F-

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| IMDG | | |
|--|-------------------------------------|--|
| ENVIRON MENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product bisphenot-A-(epichlorhydrin): epoxy resin (number average molecular weight ≤ 700), reaction product bisphenot-F-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)), MARINE POLLUTANT IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product bisphenot-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)), MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product bisphenot-F-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)) 14.3 Transport hazard class(es) ADR, IMDG, IATA III 14.5 Environmental hazards: Product contains environmentally hazardous substances: reaction product: bisphenot-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700) Marine pollutant: Yes Special marking (ADR): Special marking (ADR): Special marking (ADR): Special marking (ATA): Special marking (ATA): Yes Symbol (fish and tree) Symbol (fish and tree) Symbol fish and tree) Symbol fish and tree) Transport in bulk according to Annex II of Marpol and the IBC Code Transport/Additional information: ADR Limited quantities (LQ) Excepted quantities (EQ) Excepted quantities (EQ) FA,S-F Tunnel restriction code E IMDG Import Impor | | (Contd. of page 6 |
| SUBSTANCE, L(QUID, N.O.S. (reaction product bisphenol-A-(epichiorhydrin); epoxy resin (number average molecular weight ≤ 700), reaction product bisphenol-F-(epichiorhydrin) epoxy resin (number average molecular weight ≤ 700), MARINE POLLUTANT IATA IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE, L(QUID, N.O.S. (reaction product bisphenol-A-(epichiorhydrin); epoxy resin (number average molecular weight ≤ 700), reaction product bisphenol-F-(epichiorhydrin); epoxy resin (number average molecular weight ≤ 700), reaction product bisphenol-F-(epichiorhydrin); epoxy resin (number average molecular weight ≤ 700), reaction product bisphenol-F-(epichiorhydrin); epoxy resin (number average molecular weight ≤ 700), reaction product bisphenol-F-(epichiorhydrin); epoxy resin (number average molecular weight ≤ 700). **Class 9 Miscellaneous dangerous substances and articles. 9 14.4 Packing group ADR, IMDG, IATA III 14.5 Environmental hazards: **Product contains environmentally hazardous substances: reaction product: bisphenol-A (epichiorhydrin); epoxy resin (number average molecular weight ≤ 700) **Yes **Special marking (ADR): **Special marking (ADR): **Special marking (ADR): **Special marking (ATA): **Special marking (ADR): | · · IMDG | |
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| average molecular weight ≤ 700), MARINE POLLUTANT IATA IA | | |
| average molecular weight ≤ 700)), MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product bisphenol-A-(epichlorhydrin): epoxy resin (number average molecular weight ≤ 700), reaction product bisphenol-F-(epichlorhydrin): epoxy resin (number average molecular weight ≤ 700). 14.3 Transport hazard class(es) ADR, IMDG, IATA Class 9 Miscellaneous dangerous substances and articles. 9 14.4 Packing group ADR, IMDG, IATA III 14.5 Environmental hazards: Product contains environmentally hazardous substances: reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700) Marine pollutant: Special marking (ADR): Special marking (IATA): Special marking (IATA): Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree) Transport in bulk according to Annex II of Marpol and the IBC Code Transport/Additional information: ADR Limited quantities (LQ) Excepted quantities (LQ) Fixeney Image: Sumbol (III) Image: Sumb | | average molecular weight ≤ 700), reaction product: |
| IATA POLLUTANT | | |
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| - 14.3 Transport hazard class(es) - ADR, IMDG, IATA - Label - Class - Label - 14.4 Packing group - ADR, IMDG, IATA - 14.5 Environmental hazards: - Product contains environmentally hazardous substances: reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700 class) - Marine pollutant: - Special marking (ADR): - Special marking (IATA): - Symbol (fish and tree) - Symbol (fish and tree) - Symbol (fish and tree) - 14.6 Special precautions for user - Danger code (Kemler): - Dang | | |
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Trade name: UHU plus endfest 300 (Binder)

| | (Contd. of page 7) |
|--------------------------|---|
| | ml |
| · UN "Model Regulation": | UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700), reaction product: bisphenol-F-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)), 9, III |

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 None of the ingredients is listed.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information 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.

Relevant phrases

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

· Department issuing MSDS: CRD

· Contact:

Frau A. Liar,

Herr Dr. C. Hanf

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 européen sur le transport 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

ELINCS: European List of Notified Chemical Substances

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

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

* * Data compared to the previous version altered.



Printing date 19.06.2015 Version number 17 Revision: 17.06.2015

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

- · 1.1 Product identifier
- · Trade name: UHU plus endfest 300 (Härter)
- 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 Adhesives
- · 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier: UHU GmbH & Co.KG Herrmannstraße 7 D-77815 Bühl (Baden) Tel.:0049-(0)7223-284-0

Tel.:0049-(0)7223-284-0 Fax: 0049-(0)7223-284-245 email: info@uhu.boltongroup.de

- · Further information obtainable from: CRD
- · 1.4 Emergency telephone number: Tel.: +49 (0) 72 23/28 40

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



GHS05 corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



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

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms





GHS05 GHS07

- · Signal word Danger
- · Hazard-determining components of labelling:

N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine amine, polyethylenepoly-,triethylenetetramine fraction

· Hazard statements

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

Precautionary statements

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

P102 Keep out of reach of children.

P103 Read label before use.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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

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P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin

with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

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

P310 Immediately call a POISON CENTER/doctor.

P501 Dispose of contents/container in accordance with local/regional/national/

international regulations.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· **PBT:** Not applicable. · **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.2 Mixtures
- · Description: Adhesive

| · Dangerous components: | | |
|--|---|----------|
| | N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine | 5,0-<10% |
| EINECS: 234-148-4 | Skin Corr. 1B, H314; Eye Dam. 1, H318; (1) Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317 | |
| EINECS: 292-588-2 Reg.nr.: 01-2119487919-13 | amine, polyethylenepoly-,triethylenetetramine fraction Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412 | 5,0-<10% |

[·] Additional information: For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- General information:

Immediately remove any clothing soiled by the product.

Immediately remove any clothing soiled by the product.

· After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

If skin irritation continues, consult a doctor.

Immediately wash with water and soap and rinse thoroughly.

- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing:

Rinse out mouth and then drink plenty of water.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

· 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:

Water spray

Carbon dioxide

Foam

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Fire-extinguishing powder

Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the following can be released:

Nitrogen oxides (NOx)

Carbon monoxide (CO)

- 5.3 Advice for firefighters
- · Protective equipment:

Do not inhale explosion gases or combustion gases.

No special measures required.

SECTION 6: Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralising agent.

Send for recovery or disposal in suitable receptacles.

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 disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Store in cool, dry place in tightly closed receptacles.

Prevent formation of aerosols.

- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions:

Store receptacle in a well ventilated area.

Keep container tightly sealed.

- Storage class: 10
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace:

90640-67-8 amine, polyethylenepoly-,triethylenetetramine fraction

MAK (Germany) als Dampf und Aerosol;vgl.Abschn.IV

Additional information: The lists valid during the making were used as basis.

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- · 8.2 Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Avoid contact with the eyes and skin.

Avoid direct contact with the chemical/ the product/ the preparation by organisational measures.

· Protection of hands:

Rubber gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection: Not required.

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|----------------------|--------------|---------------|-------------|
| SECTION 9: PI | ivsicai aiic | ı GileliliGal | Di Obei des |

| · 9.1 Information on basic physical a | and chemical properties |
|--|---|
| · General Information · Appearance: | |
| Form: | Fluid |
| Colour: | Yellow |
| · Odour: | Amine-like |
| · Odour threshold: | Not determined. |
| · pH-value at 20 °C: | 12 (1:1 in H2O) |
| · Change in condition | |
| Melting point/Melting range: | Undetermined. |
| Boiling point/Boiling range: | 278 °C |
| · Flash point: | 135 °C |
| · Flammability (solid, gaseous): | Not applicable. |
| · Ignition temperature: | 335 °C |
| · Decomposition temperature: | Not determined. |
| · Self-igniting: | Product is not selfigniting. |
| · Danger of explosion: | Product does not present an explosion hazard. |
| · Explosion limits: | |
| Lower: | Not determined. |
| Upper: | Not determined. |
| · Vapour pressure: | Not determined. |
| · Density at 20 °C: | 0,95 g/cm³ |
| Relative density | Not determined. |
| Vapour density | Not determined. |
| · Evaporation rate | Not determined. |

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| | | (Contd. of page 4 |
|--------------------------------------|--|-------------------|
| · Solubility in / Miscibility with | | |
| water: | Not miscible or difficult to mix. | |
| · Partition coefficient (n-octanol/w | ater): Not determined. | |
| · Viscosity: | | |
| Dynamic at 20 °C: | 32500 mPas | |
| Kinematic: | Not determined. | |
| · Solvent content: | | |
| Organic solvents: | 0,0 % | |
| VOC (EC) | 0,00 % | |
| Solids content: | 84,2 % | |
| · 9.2 Other information | No further relevant information available. | |

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 according to specifications.

- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity

| · LD/LC5 | · LD/LC50 values relevant for classification: | | |
|----------|---|--------------------|--|
| 90640-6 | 90640-67-8 amine, polyethylenepoly-,triethylenetetramine fraction | | |
| Oral | LD50 | 2500 mg/kg (rat) | |
| Dermal | LD50 | 805 mg/kg (rabbit) | |

- Primary irritant effect:
- · Skin corrosion/irritation

Causes severe skin burns and eye damage.

· Serious eye damage/irritation

Causes serious eye damage.

· 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.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.

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- · 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Must not reach sewage water or drainage ditch undiluted or unneutralised.

Danger to drinking water if even small quantities leak into the ground.

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

- 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Disposal must be made according to official regulations.

European waste catalogue

08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances

- · Uncleaned packaging:
- · Recommendation:

· Label

· 14.4 Packing group · ADR, IMDG, IATA

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

| SECTION 14: Transport inform | |
|-----------------------------------|---|
| 14.1 UN-Number ADR, IMDG, IATA | UN2735 |
| 14.2 UN proper shipping name | |
| ADR IMDG, IATA | 2735 POLYAMINES, LIQUID, CORROSIVE N.O.S. (N'-(3-aminopropyl)-N,N-dimethylpropane 1,3-diamine, TRIETHYLENETETRAMINE) 1760 ÄTZENDER FLÜSSIGER STOFF, N.A.G. (N'-(3-Aminopropyl)-N,N-dimethylpropan-1,3 diamin, TRIETHYLENTETRAMIN) POLYAMINES, LIQUID, CORROSIVE, N.O.S. (N.G.) (3-aminopropyl)-N,N-dimethylpropane-1,3 diamine, TRIETHYLENETETRAMINE) |
| 14.3 Transport hazard class(es) | |
| ADR, IMDG, IATA | |
| July 300 | |
| Class | 8 Corrosive substances. |

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| | (Contd. of page |
|--|---|
| 14.5 Environmental hazards: Marine pollutant: | No |
| 14.6 Special precautions for user | Warning: Corrosive substances. |
| Danger code (Kemler): | 80 |
| EMS Number: | F-A,S-B |
| Segregation groups | Alkalis |
| 14.7 Transport in bulk according to A | nnex II |
| of Marpol and the IBC Code | Not applicable. |
| Transport/Additional information: | |
| ADR | |
| Limited quantities (LQ) | 1L |
| Excepted quantities (ÉQ) | Code: E2 |
| , | Maximum net quantity per inner packaging: 30 ml |
| | Maximum net quantity per outer packaging: 500 n |
| Transport category | 2 |
| Tunnel restriction code | E |
| IMDG | |
| Limited quantities (LQ) | 1 kg |
| Excepted quantities (ÉQ) | Code: E2 |
| . , | Maximum net quantity per inner packaging: 30 ml |
| | Maximum net quantity per outer packaging: 500 n |
| UN "Model Regulation": | UN2735, POLYAMINES, LIQUID, CORROSIVE |
| 3 | N.O.S. (N'-(3-aminopropyl)-N,N-dimethylpropane |
| | 1,3-diamine, TRIETHYLENETETRAMINE), 8, II |

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 None of the ingredients is listed.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information 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.

· Relevant phrases

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

- Department issuing MSDS: CRD
- · Contact:

Frau A. Liar,

Herr Dr. C. Hanf

· 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)

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ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport 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

ELINCS: European List of Notified Chemical Substances

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

VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

* Data compared to the previous version altered.