

according to Regulation (EC) No 1907/2006 - COMMISSION  
REGULATION (EU) 2020/878

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

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UFI: 6910-S043-W001-RQ32

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

Adhesive mortar for fastening elements A-component (resin)

**Uses advised against**

no restriction

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

|                         |                               |                            |
|-------------------------|-------------------------------|----------------------------|
| Company name:           | Chemofast Anchoring GmbH      |                            |
| Street:                 | Hanns-Martin-Schleyer-Str. 23 |                            |
| Place:                  | D-47877 Willich               |                            |
| Telephone:              | +49 2154 8123 0               | Telefax: +49 2154 8123 333 |
| Internet:               | www.chemofast.de              |                            |
| Responsible Department: | sdb@chemofast.de              |                            |

**1.4. Emergency telephone number:** +49 (0)551-19240 (GIZ-Nord, German and English 24/7)**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Repr. 1B; H360F  
Skin Irrit. 2; H315  
Eye Irrit. 2; H319  
Skin Sens. 1; H317  
Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

**2.2. Label elements****Regulation (EC) No 1272/2008****Hazard components for labelling**

2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane;  
1,6-Hexanediol diglycidyl ether

**Signal word:** Danger**Pictograms:****Hazard statements**

|       |                                                  |
|-------|--------------------------------------------------|
| H315  | Causes skin irritation.                          |
| H317  | May cause an allergic skin reaction.             |
| H319  | Causes serious eye irritation.                   |
| H360F | May damage fertility.                            |
| H411  | Toxic to aquatic life with long lasting effects. |

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**Precautionary statements**

|           |                                                                                |
|-----------|--------------------------------------------------------------------------------|
| P261      | Avoid breathing vapours.                                                       |
| P264      | Wash hands thoroughly after handling.                                          |
| P273      | Avoid release to the environment.                                              |
| P280      | Wear protective gloves/protective clothing and eye protection/face protection. |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention.               |
| P337+P313 | If eye irritation persists: Get medical advice/attention.                      |

**Special labelling of certain mixtures**

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

**2.3. Other hazards**

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

CAS No. 1675-54-3: inconclusive outcome (ECHA's endocrine disruptor (ED) assessment list)

People who are allergic to epoxide should avoid the use of the product.

Use only outdoors or in a well-ventilated area.

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

Restricted to professional users.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Hazardous components**

| CAS No      | Chemical name                                                                                     |              |                  | Quantity    |
|-------------|---------------------------------------------------------------------------------------------------|--------------|------------------|-------------|
|             | EC No                                                                                             | Index No     | REACH No         |             |
|             | Classification (Regulation (EC) No 1272/2008)                                                     |              |                  |             |
| 1675-54-3   | 2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane                               |              |                  | 30 - < 60 % |
|             | 216-823-5                                                                                         | 603-073-00-2 | 01-2119456619-26 |             |
|             | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H319 H317 H411                 |              |                  |             |
| 933999-84-9 | 1,6-Hexanediol diglycidyl ether                                                                   |              |                  | 10 - < 15 % |
|             | 618-939-5                                                                                         |              | 01-2119463471-41 |             |
|             | Repr. 1B, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 3; H360F H315 H319 H317 H412 |              |                  |             |

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

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

| CAS No      | EC No                                                                                                               | Chemical name                                                       | Quantity    |
|-------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-------------|
|             | Specific Conc. Limits, M-factors and ATE                                                                            |                                                                     |             |
| 1675-54-3   | 216-823-5                                                                                                           | 2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane | 30 - < 60 % |
|             | dermal: LD50 = 23000 mg/kg; oral: LD50 = 15000 mg/kg Skin Irrit. 2; H315: >= 5 - 100 Eye Irrit. 2; H319: >= 5 - 100 |                                                                     |             |
| 933999-84-9 | 618-939-5                                                                                                           | 1,6-Hexanediol diglycidyl ether                                     | 10 - < 15 % |
|             | dermal: LD50 = >4900 mg/kg; oral: LD50 = 8500 mg/kg                                                                 |                                                                     |             |

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

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**General information**

First aider: Pay attention to self-protection! Take off immediately all contaminated clothing and wash it before reuse. Get medical advice/attention if you feel unwell.

**After inhalation**

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

**After contact with skin**

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

**After contact with eyes**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

**After ingestion**

Do NOT induce vomiting. Rinse mouth thoroughly with water. Medical treatment necessary.

**4.2. Most important symptoms and effects, both acute and delayed**

Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.  
May damage fertility.

**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**

Foam  
Extinguishing powder  
Water spray jet  
Carbon dioxide (CO<sub>2</sub>)

**Unsuitable extinguishing media**

Full water jet

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

Pyrolysis products, toxic  
Carbon monoxide

**5.3. Advice for firefighters**

In case of fire and/or explosion do not breathe fumes.  
Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit

**Additional information**

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****General advice**

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Provide adequate ventilation.

**6.2. Environmental precautions**

Avoid release to the environment. Do not allow to enter into surface water or drains.

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

Collect spillage. Take up mechanically, placing in appropriate containers for disposal. Suitable material for taking up: Sand

Treat the recovered material as prescribed in the section on waste disposal.

Retain contaminated washing water and dispose it.

**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****Advice on safe handling**

Use only outdoors or in a well-ventilated area.

Wear personal protection equipment (refer to section 8).

Avoid contact with skin, eyes and clothes.

When using do not eat, drink or smoke.

**Advice on general occupational hygiene**

Take off contaminated clothing and wash it before reuse. Draw up and observe skin protection programme. Wash hands thoroughly after handling. When using do not eat, drink or smoke.

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

Keep container tightly closed.

Store in a place accessible by authorized persons only.

Keep only in the original container in a cool, well-ventilated place.

**Hints on joint storage**

Do not store together with: Oxidising agent, strong

Do not use for products which come into contact with the food stuffs.

**Further information on storage conditions**

storage temperature: 5 - 35°C

**7.3. Specific end use(s)**

Adhesive mortar for fastening elements A-component (resin)

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****DNEL/DMEL values**

| CAS No         | Substance                                                           | Exposure route | Effect   | Value            |
|----------------|---------------------------------------------------------------------|----------------|----------|------------------|
| DNEL type      |                                                                     |                |          |                  |
| 1675-54-3      | 2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane |                |          |                  |
| Worker , acute |                                                                     | dermal         | systemic | 8.3 mg/kg bw/day |
| Worker , acute |                                                                     | inhalation     | systemic | 12.3 mg/m³       |
| 933999-84-9    | 1,6-Hexanediol diglycidyl ether                                     |                |          |                  |
| Worker DNEL,   |                                                                     | dermal         |          | 1.7 mg/kg bw/day |
| Worker DNEL,   |                                                                     | inhalation     |          | 2.9 mg/m³        |

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## PNEC values

| CAS No      | Substance                       |              |
|-------------|---------------------------------|--------------|
|             | Environmental compartment       | Value        |
| 933999-84-9 | 1,6-Hexanediol diglycidyl ether |              |
|             | Freshwater                      | 0,0115 mg/l  |
|             | Marine water                    | 0,00115 mg/l |
|             | Freshwater sediment             | 0,283 mg/kg  |
|             | Marine sediment                 | 0,283 mg/kg  |

## Additional advice on limit values

To date, no national critical limit values exist.

This mixture contains quartz (inorganic filler) which is firmly bound in the paste-like component and is therefore not freely available during use. The risk of dust inhalation is excluded. Exposure limits for respirable dusts are not relevant for this product.

## 8.2. Exposure controls



## Appropriate engineering controls

Provide adequate ventilation. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

## Individual protection measures, such as personal protective equipment

## Eye/face protection

Wear eye protection/face protection. Wear safety glasses.

## Hand protection

Recommended material: NBR (Nitrile rubber)  
Breakthrough time: > 480 min  
Thickness of the glove material: 0,7 mm  
DIN-/EN-Norms EN 374

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

## Skin protection

Wear suitable protective clothing.

## Respiratory protection

In case of inadequate ventilation wear respiratory protection. Respiratory protection with combination filter A1P2 (organic gases/vapors and particles)

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

|                               |                   |                   |
|-------------------------------|-------------------|-------------------|
| Physical state:               | solid (pasty)     |                   |
| Colour:                       | light beige       |                   |
| Odour:                        | characteristic    |                   |
| Odour threshold:              | No data available |                   |
| Melting point/freezing point: |                   | No data available |

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|                                                           |                                                                                                  |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Boiling point or initial boiling point and boiling range: | No data available                                                                                |
| Flammability:                                             | Non-flammable.                                                                                   |
| Lower explosion limits:                                   | not applicable                                                                                   |
| Upper explosion limits:                                   | not applicable                                                                                   |
| Flash point:                                              | not applicable                                                                                   |
| Auto-ignition temperature:                                | not applicable                                                                                   |
| Decomposition temperature:                                | No data available                                                                                |
| pH-Value:                                                 | The study does not need to be conducted because the substance is known to be insoluble in water. |
| Viscosity / kinematic:                                    | not applicable                                                                                   |
| Water solubility:                                         | The study does not need to be conducted because the substance is known to be insoluble in water. |
| Solubility in other solvents                              |                                                                                                  |
| No data available                                         |                                                                                                  |
| Partition coefficient n-octanol/water:                    | not applicable                                                                                   |
| Vapour pressure:                                          | No data available                                                                                |
| Density (at 20 °C):                                       | 1,45 g/cm <sup>3</sup>                                                                           |
| Relative vapour density:                                  | not applicable                                                                                   |
| Particle characteristics:                                 | No data available                                                                                |

**9.2. Other information****Information with regard to physical hazard classes**

## Explosive properties

The product is not: Explosive.

## Self-ignition temperature

Solid:

not applicable

## Oxidizing properties

Not oxidising.

**Other safety characteristics**

Evaporation rate:

No data available

Solid content:

No data available

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

No hazardous reaction when handled and stored according to provisions.

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

Violent reaction with: Oxidising agent, strong

**10.4. Conditions to avoid**

Heat. Keep cool. Protect from sunlight.

**10.5. Incompatible materials**

Keep away from: Oxidizing agent

**10.6. Hazardous decomposition products**

No known hazardous decomposition products.

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

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

**ATEmix calculated**

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

| CAS No      | Chemical name                                                       |               |         |        |        |
|-------------|---------------------------------------------------------------------|---------------|---------|--------|--------|
|             | Exposure route                                                      | Dose          | Species | Source | Method |
| 1675-54-3   | 2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane |               |         |        |        |
|             | oral                                                                | LD50<br>mg/kg | 15000   | Rat    |        |
|             | dermal                                                              | LD50<br>mg/kg | 23000   | Rabbit |        |
| 933999-84-9 | 1,6-Hexanediol diglycidyl ether                                     |               |         |        |        |
|             | oral                                                                | LD50<br>mg/kg | 8500    | Rat    |        |
|             | dermal                                                              | LD50<br>mg/kg | >4900   | Rabbit |        |

**Irritation and corrosivity**

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye irritation.

**Sensitising effects**

May cause an allergic skin reaction. (2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane;  
1,6-Hexanediol diglycidyl ether)

Contains epoxy constituents. May produce an allergic reaction.

**Carcinogenic/mutagenic/toxic effects for reproduction**

May damage fertility. (1,6-Hexanediol diglycidyl ether)

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:

1,6-Hexanediol diglycidyl ether

NOAEL F0, F1= 55 mg/kg

Species: rat, male

Exposure route: oral

Method: OECD 443

NOAEL F0, F1= 300 mg/kg

Species: rat, female

Exposure route: oral

Method: OECD 443

**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.

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**Aspiration hazard**

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

**11.2. Information on other hazards****Endocrine disrupting properties**

CAS No. 1675-54-3: inconclusive outcome (ECHA's endocrine disruptor (ED) assessment list)

**SECTION 12: Ecological information****12.1. Toxicity**

Toxic to aquatic life with long lasting effects.

| CAS No      | Chemical name                                                       |               |           |                                     |        |        |
|-------------|---------------------------------------------------------------------|---------------|-----------|-------------------------------------|--------|--------|
|             | Aquatic toxicity                                                    | Dose          | [h]   [d] | Species                             | Source | Method |
| 1675-54-3   | 2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane |               |           |                                     |        |        |
|             | Acute fish toxicity                                                 | LC50 2 mg/l   | 96 h      | Oncorhynchus mykiss (Rainbow trout) |        |        |
|             | Acute algae toxicity                                                | ErC50 11 mg/l | 72 h      |                                     |        |        |
|             | Acute crustacea toxicity                                            | EC50 1.8 mg/l | 48 h      | Daphnia magna (Big water flea)      |        |        |
| 933999-84-9 | 1,6-Hexanediol diglycidyl ether                                     |               |           |                                     |        |        |
|             | Acute fish toxicity                                                 | LC50 30 mg/l  | 96 h      | Oncorhynchus mykiss (Rainbow trout) |        |        |
|             | Acute crustacea toxicity                                            | EC50 47 mg/l  | 48 h      | Daphnia magna (Big water flea)      |        |        |

**12.2. Persistence and degradability**

The product has not been tested.

| CAS No      | Chemical name                   |       |    |        |
|-------------|---------------------------------|-------|----|--------|
|             | Method                          | Value | d  | Source |
|             | Evaluation                      |       |    |        |
| 933999-84-9 | 1,6-Hexanediol diglycidyl ether |       |    |        |
|             | OECD 301D                       | 47 %  | 28 |        |

**12.3. Bioaccumulative potential**

The product has not been tested.

**Partition coefficient n-octanol/water**

| CAS No      | Chemical name                   | Log Pow |
|-------------|---------------------------------|---------|
| 933999-84-9 | 1,6-Hexanediol diglycidyl ether | 0,822   |

**BCF**

| CAS No      | Chemical name                   | BCF  | Species | Source |
|-------------|---------------------------------|------|---------|--------|
| 933999-84-9 | 1,6-Hexanediol diglycidyl ether | 3,57 |         |        |

**12.4. Mobility in soil**

The product has not been tested.

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

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

The product has not been tested.

**12.6. Endocrine disrupting properties**

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This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**12.7. Other adverse effects**

No information available.

**Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

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

Dispose of waste according to applicable legislation. Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

**List of Wastes Code - residues/unused products**

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

**List of Wastes Code - used product**

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

**List of Wastes Code - contaminated packaging**

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

**SECTION 14: Transport information****Land transport (ADR/RID)****14.1. UN number or ID number:**

UN 3077

**14.2. UN proper shipping name:**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Epoxy resin)

**14.3. Transport hazard class(es):**

9

**14.4. Packing group:**

III

Hazard label:

9



Classification code:

M7

Special Provisions:

274 335 375 601

Limited quantity:

5 kg

Excepted quantity:

E1

Transport category:

3

Hazard No:

90

Tunnel restriction code:

-

**Other applicable information (land transport)**

No dangerous goods in packaging until 5 kg according special instruction 375 ADR/RID

**Inland waterways transport (ADN)**

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**14.1. UN number or ID number:** UN 3077  
**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Epoxy resin)  
**14.3. Transport hazard class(es):** 9  
**14.4. Packing group:** III  
Hazard label: 9



Classification code: M7  
Special Provisions: 274 335 375 601  
Limited quantity: 5 kg  
Excepted quantity: E1

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

No dangerous goods in packaging until 5 kg according special instruction 375 ADN

**Marine transport (IMDG)**

**14.1. UN number or ID number:** UN 3077  
**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Epoxy resin)  
**14.3. Transport hazard class(es):** 9  
**14.4. Packing group:** III  
Hazard label: 9



Special Provisions: 274, 335, 966, 967, 969  
Limited quantity: 5 kg  
Excepted quantity: E1  
EmS: F-A, S-F

**Other applicable information (marine transport)**

No dangerous goods in packaging until 5kg according 2.10.2.7 IMDG Code

**Air transport (ICAO-TI/ATA-DGR)**

**14.1. UN number or ID number:** UN 3077  
**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Epoxy resin)  
**14.3. Transport hazard class(es):** 9  
**14.4. Packing group:** III  
Hazard label: 9



Special Provisions: A97 A158 A179 A197 A215  
Limited quantity Passenger: 30 kg G  
Passenger LQ: Y956  
Excepted quantity: E1  
IATA-packing instructions - Passenger: 956  
IATA-max. quantity - Passenger: 400 kg  
IATA-packing instructions - Cargo: 956  
IATA-max. quantity - Cargo: 400 kg

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**Other applicable information (air transport)**

No dangerous goods in packaging until 5 kg according A197 IATA-DGA

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: Yes

**14.6. Special precautions for user**

No information available.

**14.7. Maritime transport in bulk according to IMO instruments**

not applicable

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

Restrictions on use (REACH, annex XVII):

Entry 75

Information according to Directive  
2012/18/EU (SEVESO III):

E2 Hazardous to the Aquatic Environment

**Additional information**

VOC content: < 0,1 % (DIN EN ISO 11890-2)

To follow: 850/2004/EC , 79/117/EEC , 689/2008/EC

**National regulatory information**

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D):

2 - obviously hazardous to water

Skin resorption/Sensitization:

Causes allergic hypersensitivity reactions.

**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information****Abbreviations and acronyms**

ADN: Accord européen relatif au transport international des marchandises Dangereuses par voie de Navigation (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways )

ADR: Accord européen sur le transport des marchandises dangereuses par route ( European Agreement concerning the International Carriage of Dangerous Goods by Road)

BCF: Bioconcentration factor

CAS: Chemical Abstracts Service

CLP: Classification, Labeling and Packaging

DMEL: Derived Minimal Effect level

DNEL: Derived No Effect Level

EC50: Effective concentration, 50%

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations (DRG) for the air transport (IATA)

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ICAO: International Civil Aviation Organization  
IC50: Inhibitory concentration, 50%  
IMDG: International Maritime Code for Dangerous Goods  
LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%  
NOEC: No Observed Effect Concentration  
OECD: Organisation for Economic Co-operation and Development  
PBT: persistent, bioaccumulative and toxic  
vPvB: very persistent and very bioaccumulative  
PNEC: Predicted No Effect Concentration  
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals  
RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses (Regulations Concerning the International Carriage of Dangerous Goods by Rail)  
VOC: Volatile organic compound  
Aquatic Chronic 2: Long-term aquatic hazard, Category 2  
Aquatic Chronic 3: Long-term aquatic hazard, Category 3

## Key literature references and sources for data

Website European Chemicals Agency: <https://echa.europa.eu>  
Data sources: Supplier

## Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

| Classification          | Classification procedure |
|-------------------------|--------------------------|
| Repr. 1B; H360F         | Calculation method       |
| Skin Irrit. 2; H315     | Calculation method       |
| Eye Irrit. 2; H319      | Calculation method       |
| Skin Sens. 1; H317      | Calculation method       |
| Aquatic Chronic 2; H411 | Calculation method       |

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

|        |                                                                |
|--------|----------------------------------------------------------------|
| H315   | Causes skin irritation.                                        |
| H317   | May cause an allergic skin reaction.                           |
| H319   | Causes serious eye irritation.                                 |
| H360F  | May damage fertility.                                          |
| H411   | Toxic to aquatic life with long lasting effects.               |
| H412   | Harmful to aquatic life with long lasting effects.             |
| EUH205 | Contains epoxy constituents. May produce an allergic reaction. |

## Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*

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

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UFI: MD10-80TH-600J-E1P4

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

compound mortar B-component (hardener)

**Uses advised against**

no restriction

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

|                         |                               |                            |
|-------------------------|-------------------------------|----------------------------|
| Company name:           | Chemofast Anchoring GmbH      |                            |
| Street:                 | Hanns-Martin-Schleyer-Str. 23 |                            |
| Place:                  | D-47877 Willich               |                            |
| Telephone:              | +49 2154 8123 0               | Telefax: +49 2154 8123 333 |
| Internet:               | www.chemofast.de              |                            |
| Responsible Department: | sdb@chemofast.de              |                            |

**1.4. Emergency telephone number:** +49 (0)551-19240 (GIZ-Nord, German and English 24/7)**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Acute Tox. 4; H302  
Skin Corr. 1A; H314  
Eye Dam. 1; H318  
Skin Sens. 1; H317

Full text of hazard statements: see SECTION 16.

**2.2. Label elements****Regulation (EC) No 1272/2008****Hazard components for labelling**

2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine;  
m-Phenylenebis(methylamine);  
2,4,6-Tris(dimethylaminomethyl)phenol

**Signal word:** Danger**Pictograms:****Hazard statements**

|      |                                          |
|------|------------------------------------------|
| H302 | Harmful if swallowed.                    |
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction.     |

**Precautionary statements**

|      |                                                                                |
|------|--------------------------------------------------------------------------------|
| P260 | Do not breathe dust or mist.                                                   |
| P280 | Wear protective gloves/protective clothing and eye protection/face protection. |

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P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P501 Dispose of contents/container to an approved waste disposal plant in accordance with local/national regulation.

**2.3. Other hazards**

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

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Contains Amines. May produce an allergic reaction.  
Use only outdoors or in a well-ventilated area.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Hazardous components**

| CAS No     | Chemical name                                                                                                                 |              |                  | Quantity    |
|------------|-------------------------------------------------------------------------------------------------------------------------------|--------------|------------------|-------------|
|            | EC No                                                                                                                         | Index No     | REACH No         |             |
|            | Classification (Regulation (EC) No 1272/2008)                                                                                 |              |                  |             |
| 25513-64-8 | 2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine                                                                                   |              |                  | 25 - < 35 % |
|            | 247-063-2                                                                                                                     |              | 01-2119560598-25 |             |
|            | Acute Tox. 4, Skin Corr. 1A, Eye Dam. 1, Skin Sens. 1A; H302 H314 H318 H317                                                   |              |                  |             |
| 1477-55-0  | m-Phenylenebis(methylamine)                                                                                                   |              |                  | 1 - < 8 %   |
|            | 216-032-5                                                                                                                     |              | 01-2119480150-50 |             |
|            | Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1B, Aquatic Chronic 3; H332 H302 H314 H318 H317 H412 EUH071 |              |                  |             |
| 90-72-2    | 2,4,6-Tris(dimethylaminomethyl)phenol                                                                                         |              |                  | 5 - < 10 %  |
|            | 202-013-9                                                                                                                     | 603-069-00-0 | 01-2119560597-27 |             |
|            | Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2; H302 H315 H319                                                                     |              |                  |             |
| 104-15-4   | p-toluenesulphonic acid (containing a maximum of 5 % H <sub>2</sub> SO <sub>4</sub> )                                         |              |                  | 1 - < 5 %   |
|            | 203-180-0                                                                                                                     | 016-030-00-2 | 01-2119538811-39 |             |
|            | Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H315 H319 H335                                                                        |              |                  |             |

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

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

| CAS No     | EC No     | Chemical name                                                                                      | Quantity    |
|------------|-----------|----------------------------------------------------------------------------------------------------|-------------|
|            |           | Specific Conc. Limits, M-factors and ATE                                                           |             |
| 25513-64-8 | 247-063-2 | 2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine                                                        | 25 - < 35 % |
|            |           | oral: LD50 = 910 mg/kg                                                                             |             |
| 1477-55-0  | 216-032-5 | m-Phenylenebis(methylamine)                                                                        | 1 - < 8 %   |
|            |           | inhalation: LC50 = 1,34 mg/l (dusts or mists); dermal: LD50 = > 3100 mg/kg; oral: LD50 = 930 mg/kg |             |
| 90-72-2    | 202-013-9 | 2,4,6-Tris(dimethylaminomethyl)phenol                                                              | 5 - < 10 %  |
|            |           | oral: LD50 = 2169 mg/kg                                                                            |             |
| 104-15-4   | 203-180-0 | p-toluenesulphonic acid (containing a maximum of 5 % H2SO4)                                        | 1 - < 5 %   |
|            |           | inhalation: LC50 = 50 - 100 mg/l (vapours) STOT SE 3; H335: >= 20 - 100                            |             |

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

## General information

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down. Take off immediately all contaminated clothing and wash it before reuse. Get medical advice/attention if you feel unwell.

## After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

## After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

## After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

## After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water. Medical treatment necessary.

## 4.2. Most important symptoms and effects, both acute and delayed

Harmful if swallowed.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

## 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

Foam

Extinguishing powder

Water spray jet

Carbon dioxide (CO2)

## Unsuitable extinguishing media

Full water jet

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

Pyrolysis products, toxic

Carbon monoxide

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**5.3. Advice for firefighters**

In case of fire and/or explosion do not breathe fumes.

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

**Additional information**

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****General advice**

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Provide adequate ventilation.

**6.2. Environmental precautions**

Avoid release to the environment. Do not allow to enter into surface water or drains.

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

Collect spillage. Take up mechanically, placing in appropriate containers for disposal. Suitable material for taking up: Sand

Treat the recovered material as prescribed in the section on waste disposal.

Retain contaminated washing water and dispose it.

**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****Advice on safe handling**

Use only outdoors or in a well-ventilated area.

Wear personal protection equipment (refer to section 8).

Avoid contact with skin, eyes and clothes.

When using do not eat, drink or smoke.

**Advice on general occupational hygiene**

Take off contaminated clothing and wash it before reuse. Draw up and observe skin protection programme. Wash hands thoroughly after handling. When using do not eat, drink or smoke.

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

Keep container tightly closed.

Store in a place accessible by authorized persons only.

Keep only in the original container in a cool, well-ventilated place.

**Hints on joint storage**

Do not store together with: Oxidising agent, strong, Organic peroxides

Do not use for products which come into contact with the food stuffs.

**Further information on storage conditions**

Keep container tightly closed in a cool place.

storage temperature: 5 - 35°C

**7.3. Specific end use(s)**

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see section 1.2

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

## Occupational exposure limits

| CAS No    | Substance                                                      | ppm | mg/m <sup>3</sup> | fib/cm <sup>3</sup> | Category  | Origin |
|-----------|----------------------------------------------------------------|-----|-------------------|---------------------|-----------|--------|
| 1477-55-0 | m-Xylene alpha,alpha'-diamine<br>(m-phenylenebis(methylamine)) | -   | 0.1               |                     | TWA (8 h) |        |

## DNEL/DNEL values

| CAS No                   | Substance                                                                             |          |                        |  |
|--------------------------|---------------------------------------------------------------------------------------|----------|------------------------|--|
| DNEL type                | Exposure route                                                                        | Effect   | Value                  |  |
| 25513-64-8               | 2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine                                           |          |                        |  |
| Consumer DNEL, long-term | oral                                                                                  | systemic | 0,05 mg/kg<br>bw/day   |  |
| 1477-55-0                | m-Phenylenebis(methylamine)                                                           |          |                        |  |
| Worker DNEL, long-term   | inhalation                                                                            | systemic | 1,2 mg/m <sup>3</sup>  |  |
| Worker DNEL, long-term   | inhalation                                                                            | local    | 0,2 mg/m <sup>3</sup>  |  |
| Worker DNEL, long-term   | dermal                                                                                | systemic | 0,33 mg/kg<br>bw/day   |  |
| 104-15-4                 | p-toluenesulphonic acid (containing a maximum of 5 % H <sub>2</sub> SO <sub>4</sub> ) |          |                        |  |
| Worker DNEL, long-term   | dermal                                                                                | systemic | 7,6 mg/kg bw/day       |  |
| Worker DNEL, long-term   | inhalation                                                                            | systemic | 53,6 mg/m <sup>3</sup> |  |
| Consumer DNEL, long-term | dermal                                                                                | systemic | 2,5 mg/kg bw/day       |  |
| Consumer DNEL, long-term | inhalation                                                                            | systemic | 8,7 mg/m <sup>3</sup>  |  |
| Consumer DNEL, long-term | oral                                                                                  | systemic | 0,05 mg/kg<br>bw/day   |  |

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**PNEC values**

| CAS No                                           | Substance                                                                             |               |
|--------------------------------------------------|---------------------------------------------------------------------------------------|---------------|
| Environmental compartment                        |                                                                                       | Value         |
| 25513-64-8                                       | 2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine                                           |               |
| Freshwater                                       |                                                                                       | 0,102 mg/l    |
| Marine water                                     |                                                                                       | 0,01 mg/l     |
| Freshwater sediment                              |                                                                                       | 0,662 mg/kg   |
| Marine sediment                                  |                                                                                       | 0,062 mg/kg   |
| Micro-organisms in sewage treatment plants (STP) |                                                                                       | 72 mg/l       |
| 1477-55-0                                        | m-Phenylenebis(methylamine)                                                           |               |
| Freshwater                                       |                                                                                       | 0,094 mg/l    |
| Marine water                                     |                                                                                       | 0,009 mg/l    |
| Freshwater sediment                              |                                                                                       | 0,43 mg/kg    |
| Marine sediment                                  |                                                                                       | 0,043 mg/kg   |
| Micro-organisms in sewage treatment plants (STP) |                                                                                       | 10 mg/l       |
| Soil                                             |                                                                                       | 0,045 mg/kg   |
| 104-15-4                                         | p-toluenesulphonic acid (containing a maximum of 5 % H <sub>2</sub> SO <sub>4</sub> ) |               |
| Freshwater                                       |                                                                                       | 0,073 mg/l    |
| Marine water                                     |                                                                                       | 0,0073 mg/l   |
| Freshwater sediment                              |                                                                                       | 0,0577 mg/kg  |
| Marine sediment                                  |                                                                                       | 0,00577 mg/kg |
| Soil                                             |                                                                                       | 0,016 mg/kg   |

**Additional advice on limit values**

This mixture contains quartz (inorganic filler) which is firmly bound in the paste-like component and is therefore not freely available during use. The risk of dust inhalation is excluded. Exposure limits for respirable dusts are not relevant for this product.

**8.2. Exposure controls****Appropriate engineering controls**

Provide adequate ventilation. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Wear eye/face protection. Wear safety glasses.

**Hand protection**

Recommended material: NBR (Nitrile rubber)  
Breakthrough time: > 480 min  
Thickness of the glove material: 0,7 mm  
DIN-/EN-Norms EN 374

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. For special purposes, it is recommended to check the resistance to chemicals of the protective

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gloves mentioned above together with the supplier of these gloves.

**Skin protection**

Wear suitable protective clothing.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection. Respiratory protection with combination filter A1P2  
(organic gases/vapors and particles)

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

|                                                           |                                                                                                  |                        |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------|------------------------|
| Physical state:                                           | solid (pasty)                                                                                    |                        |
| Colour:                                                   | grey / red                                                                                       |                        |
| Odour:                                                    | characteristic                                                                                   |                        |
| Odour threshold:                                          | No data available                                                                                |                        |
| Melting point/freezing point:                             |                                                                                                  | No data available      |
| Boiling point or initial boiling point and boiling range: |                                                                                                  | No data available      |
| Flammability:                                             |                                                                                                  | No data available      |
| Lower explosion limits:                                   |                                                                                                  | not applicable         |
| Upper explosion limits:                                   |                                                                                                  | not applicable         |
| Flash point:                                              |                                                                                                  | not applicable         |
| Auto-ignition temperature:                                |                                                                                                  | not applicable         |
| Decomposition temperature:                                |                                                                                                  | No data available      |
| pH-Value:                                                 | The study does not need to be conducted because the substance is known to be insoluble in water. |                        |
| Viscosity / kinematic:                                    |                                                                                                  | not applicable         |
| Water solubility:                                         | The study does not need to be conducted because the substance is known to be insoluble in water. |                        |
| Solubility in other solvents                              | No data available                                                                                |                        |
| Partition coefficient n-octanol/water:                    |                                                                                                  | not applicable         |
| Vapour pressure:                                          |                                                                                                  | No data available      |
| Density (at 20 °C):                                       |                                                                                                  | 1,42 g/cm <sup>3</sup> |
| Relative vapour density:                                  |                                                                                                  | not applicable         |
| Particle characteristics:                                 |                                                                                                  | No data available      |

**9.2. Other information****Information with regard to physical hazard classes****Explosive properties**

The product is not: Explosive.

**Self-ignition temperature**

Solid:

not applicable

**Oxidizing properties**

Not oxidising.

**Other safety characteristics**

Evaporation rate:

No data available

Solid content:

No data available

**SECTION 10: Stability and reactivity**

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**10.1. Reactivity**

see section 10.3

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

Violent reaction with: Oxidising agent

**10.4. Conditions to avoid**

see section 7.2

**10.5. Incompatible materials**

Oxidising agent, strong

**10.6. Hazardous decomposition products**

No known hazardous decomposition products.

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

Harmful if swallowed.

**ATEmix calculated**

ATE (oral) 1568 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist)  
> 12,5 mg/l

| CAS No     | Chemical name                                                                         |                    |         |        |          |
|------------|---------------------------------------------------------------------------------------|--------------------|---------|--------|----------|
|            | Exposure route                                                                        | Dose               | Species | Source | Method   |
| 25513-64-8 | 2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine                                           |                    |         |        |          |
|            | oral                                                                                  | LD50 910 mg/kg     | Rat     |        |          |
| 1477-55-0  | m-Phenylenebis(methylamine)                                                           |                    |         |        |          |
|            | oral                                                                                  | LD50 930 mg/kg     | Rat     |        | OECD 401 |
|            | dermal                                                                                | LD50 > 3100 mg/kg  | Rabbit  |        | OECD 402 |
|            | inhalation (4 h) dust/mist                                                            | LC50 1,34 mg/l     | Rat     |        | OECD 403 |
| 90-72-2    | 2,4,6-Tris(dimethylaminomethyl)phenol                                                 |                    |         |        |          |
|            | oral                                                                                  | LD50 2169 mg/kg    | Rat     |        | OECD 401 |
| 104-15-4   | p-toluenesulphonic acid (containing a maximum of 5 % H <sub>2</sub> SO <sub>4</sub> ) |                    |         |        |          |
|            | inhalation vapour                                                                     | LC50 50 - 100 mg/l | Rat     |        |          |

**Irritation and corrosivity**

Skin corrosion/irritation: Causes severe skin burns and eye damage.

Serious eye damage/eye irritation: Causes serious eye damage.

**Sensitising effects**

May cause an allergic skin reaction. (2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine;  
m-Phenylenebis(methylamine))

**Carcinogenic/mutagenic/toxic effects for reproduction**

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

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

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

**STOT-single exposure**

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

**STOT-repeated exposure**

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

**Aspiration hazard**

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

**11.2. Information on other hazards****Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

**SECTION 12: Ecological information****12.1. Toxicity**

The product is not: Ecotoxic.

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| CAS No     | Chemical name                                               |                 |           |                                |        |          |
|------------|-------------------------------------------------------------|-----------------|-----------|--------------------------------|--------|----------|
|            | Aquatic toxicity                                            | Dose            | [h]   [d] | Species                        | Source | Method   |
| 25513-64-8 | 2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine                 |                 |           |                                |        |          |
|            | Acute algae toxicity                                        | ErC50 43,5 mg/l | 72 h      | Selenastrum capricornutum      |        | OECD 201 |
|            | Fish toxicity                                               | NOEC 10,9 mg/l  | 30 d      | Danio rerio (zebrafish)        |        | OECD 210 |
|            | Algae toxicity                                              | NOEC 16 mg/l    | 3 d       | Selenastrum capricornutum      |        | OECD 201 |
|            | Crustacea toxicity                                          | NOEC 1,02 mg/l  | 21 d      | Daphnia magna (Big water flea) |        | OECD 211 |
| 1477-55-0  | m-Phenylenebis(methylamine)                                 |                 |           |                                |        |          |
|            | Acute fish toxicity                                         | LC50 87,6 mg/l  | 96 h      | Oryzias latipes (Ricefish)     |        | OECD 203 |
|            | Acute algae toxicity                                        | ErC50 32,1 mg/l | 72 h      | Selenastrum capricornutum      |        | OECD 201 |
|            | Acute crustacea toxicity                                    | EC50 15,2 mg/l  | 48 h      | Daphnia magna (Big water flea) |        | OECD 202 |
|            | Crustacea toxicity                                          | NOEC 4,7 mg/l   | 21 d      | Daphnia magna (Big water flea) |        | OECD 211 |
| 90-72-2    | 2,4,6-Tris(dimethylaminomethyl)phenol                       |                 |           |                                |        |          |
|            | Acute fish toxicity                                         | LC50 175 mg/l   | 96 h      | Cyprinus carpio (Common Carp)  |        |          |
|            | Acute algae toxicity                                        | ErC50 84 mg/l   | 72 h      | Desmodesmus subspicatus        |        | OECD 201 |
|            | Algae toxicity                                              | NOEC 6,25 mg/l  | 3 d       | Desmodesmus subspicatus        |        | OECD 201 |
| 104-15-4   | p-toluenesulphonic acid (containing a maximum of 5 % H2SO4) |                 |           |                                |        |          |
|            | Acute fish toxicity                                         | LC50 325 mg/l   | 96 h      | Leuciscus idus (golden orfe)   |        | OECD 203 |
|            | Acute algae toxicity                                        | ErC50 73 mg/l   | 72 h      | Selenastrum capricornutum      |        | OECD 201 |
|            | Acute crustacea toxicity                                    | EC50 >103 mg/l  | 48 h      | Daphnia magna (Big water flea) |        | OECD 202 |

**12.2. Persistence and degradability**

The product has not been tested.

| CAS No     | Chemical name                               |       |    |        |
|------------|---------------------------------------------|-------|----|--------|
|            | Method                                      | Value | d  | Source |
|            | Evaluation                                  |       |    |        |
| 25513-64-8 | 2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine |       |    |        |
|            |                                             | 7 %   | 28 |        |
| 1477-55-0  | m-Phenylenebis(methylamine)                 |       |    |        |
|            |                                             | 49 %  | 28 |        |
| 90-72-2    | 2,4,6-Tris(dimethylaminomethyl)phenol       |       |    |        |
|            |                                             | 4 %   | 28 |        |

**12.3. Bioaccumulative potential**

The product has not been tested.

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## Partition coefficient n-octanol/water

| CAS No     | Chemical name                                                                         | Log Pow |
|------------|---------------------------------------------------------------------------------------|---------|
| 25513-64-8 | 2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine                                           | -0,3    |
| 1477-55-0  | m-Phenylenebis(methylamine)                                                           | 0,18    |
| 90-72-2    | 2,4,6-Tris(dimethylaminomethyl)phenol                                                 | -0,66   |
| 104-15-4   | p-toluenesulphonic acid (containing a maximum of 5 % H <sub>2</sub> SO <sub>4</sub> ) | 0,41    |

## BCF

| CAS No    | Chemical name               | BCF  | Species | Source |
|-----------|-----------------------------|------|---------|--------|
| 1477-55-0 | m-Phenylenebis(methylamine) | 2,69 |         |        |

**12.4. Mobility in soil**

The product has not been tested.

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

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

The product has not been tested.

**12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**12.7. Other adverse effects**

No information available.

**Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

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

Dispose of waste according to applicable legislation. Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

**List of Wastes Code - residues/unused products**

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

**List of Wastes Code - used product**

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

**List of Wastes Code - contaminated packaging**

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

**SECTION 14: Transport information****Land transport (ADR/RID)**

**14.1. UN number or ID number:** UN 3259

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**14.2. UN proper shipping name:** AMINES, SOLID, CORROSIVE, N.O.S. (2,2,4(or  
2,4,4)-Trimethylhexane-1,6-diamine; m-Phenylenebis(methylamine))  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** II  
Hazard label: 8



Classification code: C8  
Special Provisions: 274  
Limited quantity: 1 kg  
Excepted quantity: E2  
Transport category: 2  
Hazard No: 80  
Tunnel restriction code: E

## Inland waterways transport (ADN)

**14.1. UN number or ID number:** UN 3259  
**14.2. UN proper shipping name:** AMINES, SOLID, CORROSIVE, N.O.S. (2,2,4(or  
2,4,4)-Trimethylhexane-1,6-diamine; m-Phenylenebis(methylamine))  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** II  
Hazard label: 8



Classification code: C8  
Special Provisions: 274  
Limited quantity: 1 kg  
Excepted quantity: E2

## Marine transport (IMDG)

**14.1. UN number or ID number:** UN 3259  
**14.2. UN proper shipping name:** AMINES, SOLID, CORROSIVE, N.O.S. (2,2,4(or  
2,4,4)-Trimethylhexane-1,6-diamine; m-Phenylenebis(methylamine))  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** II  
Hazard label: 8



Special Provisions: 274  
Limited quantity: 1 kg  
Excepted quantity: E2  
EmS: F-A, S-B

## Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number or ID number:** UN 3259  
**14.2. UN proper shipping name:** AMINES, SOLID, CORROSIVE, N.O.S. (2,2,4(or  
2,4,4)-Trimethylhexane-1,6-diamine; m-Phenylenebis(methylamine))  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** II  
Hazard label: 8

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|                                        |         |       |
|----------------------------------------|---------|-------|
| Special Provisions:                    | A3 A803 |       |
| Limited quantity Passenger:            | 5 kg    |       |
| Passenger LQ:                          | Y844    |       |
| Excepted quantity:                     | E2      |       |
| IATA-packing instructions - Passenger: |         | 859   |
| IATA-max. quantity - Passenger:        |         | 15 kg |
| IATA-packing instructions - Cargo:     |         | 863   |
| IATA-max. quantity - Cargo:            |         | 50 kg |

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

No information available.

**14.7. Maritime transport in bulk according to IMO instruments**

not applicable

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

Restrictions on use (REACH, annex XVII):

Entry 75

Information according to Directive  
2012/18/EU (SEVESO III):

Not subject to 2012/18/EU (SEVESO III)

**Additional information**

To follow: 850/2004/EC , 79/117/EEC , 689/2008/EC

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 2 - obviously hazardous to water

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information****Abbreviations and acronyms**ADN: Accord européen relatif au transport international des marchandises Dangereuses par voie de Navigation  
(European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways )ADR: Accord européen sur le transport des marchandises dangereuses par route ( European Agreement  
concerning the International Carriage of Dangerous Goods by Road)

BCF: Bioconcentration factor

CAS: Chemical Abstracts Service

CLP: Classification, Labeling and Packaging

DMEL: Derived Minimal Effect level

DNEL: Derived No Effect Level

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EC50: Effective concentration, 50%  
IATA: International Air Transport Association  
IATA-DGR: Dangerous Goods Regulations (DRG) for the air transport (IATA)  
ICAO: International Civil Aviation Organization  
IC50: Inhibitory concentration, 50%  
IMDG: International Maritime Code for Dangerous Goods  
LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%  
NOEC: No Observed Effect Concentration  
OECD: Organisation for Economic Co-operation and Development  
PBT: persistent, bioaccumulative and toxic  
vPvB: very persistent and very bioaccumulative  
PNEC: Predicted No Effect Concentration  
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals  
RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses (Regulations Concerning the International Carriage of Dangerous Goods by Rail)  
VOC: Volatile organic compound  
Aquatic Chronic 3: Long-term aquatic hazard, Category 3

## Key literature references and sources for data

Website European Chemicals Agency: <https://echa.europa.eu>

Data sources: Supplier

## Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

| Classification      | Classification procedure |
|---------------------|--------------------------|
| Acute Tox. 4; H302  | Calculation method       |
| Skin Corr. 1A; H314 | Calculation method       |
| Eye Dam. 1; H318    | Calculation method       |
| Skin Sens. 1; H317  | Calculation method       |

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

H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H412 Harmful to aquatic life with long lasting effects.  
EUH071 Corrosive to the respiratory tract.

## Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*