

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Commercial Product Name: ALEXSEAL C3052-Super Build 302 Converter  
Quality No.: 1551471593000

Revision Date 05.06.2023  
Print Date 05.06.2023  
Version 5

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

### 1.1 Product identifier

Trade name : ALEXSEAL C3052-Super Build 302 Converter 7159 Gray

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

Use of the Substance/Mixture : Industrial serial painting

### 1.3 Details of the supplier of the safety data sheet

Producer : Mankiewicz Gebr. & Co. (GmbH & Co. KG)  
Georg-Wilhelm-Strasse 189  
21107 Hamburg  
Germany

#### Only for UK:

Supplied by Mankiewicz UK LLP  
26 Ashville Way, Whetstone,  
Leicester LE8 6NU  
United Kingdom

Telephone : +49 (0) 40 75103 0  
Telefax : +49 (0) 40 75103 375  
E-mail address of person responsible for the SDS : sdb\_info@umco.de

### 1.4 Emergency telephone number

Emergency telephone number : +44 1865 407333 (NCEC)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

|                                   |  |
|-----------------------------------|--|
| Flammable liquids, Category 2     | H225: Highly flammable liquid and vapour.      |
| Skin corrosion, Sub-category 1A   | H314: Causes severe skin burns and eye damage. |
| Serious eye damage, Category 1    | H318: Causes serious eye damage.               |
| Skin sensitisation, Category 1    | H317: May cause an allergic skin reaction.     |
| Carcinogenicity, Category 2       | H351: Suspected of causing cancer.             |
| Reproductive toxicity, Category 2 | H361d: Suspected of damaging the unborn child. |

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| Bank Name       | Ort     | Kto.-Nr.  | BLZ        | BIC         | IBAN                        |
|-----------------|---------|-----------|------------|-------------|-----------------------------|
| Deutsche Bank   | Hamburg | 600227300 | 200 700 00 | DEUTDE33HAN | DE58 2007 0000 0600 2273 00 |
| HypoVereinsbank | Hamburg | 59273300  | 200 300 00 | HYVEDE33HAN | DE34 2003 0000 0059 2733 00 |
| Postbank        | Hamburg | 373205    | 200 100 20 | PBNKDE33HAN | DE85 2001 0020 0000 3732 05 |

Sitz/Registriergericht Hamburg: HRA 42442  
Persönlich haftende Gesellschafterin:  
Grau Gebr. Beteiligungs-GmbH  
Sitz/Registriergericht Hamburg: HRB 17189  
Geschäftsführender Gesellschafter:  
Michael O. Grau  
Bureau Veritas  
Certification:  
ISO 9001,  
TS 16949,  
EN 9100



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Specific target organ toxicity - single exposure, Category 3, Central nervous system

H336: May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure, Category 2

H373: May cause damage to organs through prolonged or repeated exposure.

## 2.2 Label elements

### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements :  
H225 Highly flammable liquid and vapour.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H336 May cause drowsiness or dizziness.  
H351 Suspected of causing cancer.  
H361d Suspected of damaging the unborn child.  
H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements : **Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P260 Do not breathe mist or vapours.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

#### Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

### Hazardous components which must be listed on the label:

4-methylpentan-2-one

toluene

2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane, reaction products



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with 2,2,4(or 2,4,4)-trimethyl-1,6-hexanediamine  
2-sec-butylphenol  
Fatty acids, C18-unsatd., trimers, compds. with oleylamine  
Fatty acids, tall-oil, compds. with oleylamine

## 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Hardener based on polyamine / amino adduct

#### Components

| Chemical name        | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number     | Classification   | Concentration<br>(% w/w) |
|----------------------|---|--|--------------------------|
| 4-methylpentan-2-one | 108-10-1<br>203-550-1<br>606-004-00-4<br>01-2119473980-30 | Flam. Liq. 2; H225<br>Flam. Liq. 2; H225<br>Acute Tox. 4; H332<br>Acute Tox. 4; H332<br>Eye Irrit. 2; H319<br>Eye Irrit. 2; H319<br>Carc. 2; H351<br>STOT SE 3; H336<br>(Central nervous system)<br>STOT SE 3; H335<br>(Respiratory system)<br>STOT RE 2; H373<br>EUH066<br>EUH066<br><br>Acute toxicity estimate<br><br>Acute inhalation toxicity (vapour): 11 mg/l | >= 12.5 - < 20           |



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|   |  |   |                 |
|---|--|---|-----------------|
| toluene   | 108-88-3<br>203-625-9<br>601-021-00-3<br>01-2119471310-51  | Flam. Liq. 2; H225<br>Flam. Liq. 2; H225<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>Repr. 2; H361d<br>STOT SE 3; H336<br>(Central nervous system)<br>STOT RE 2; H373<br>Asp. Tox. 1; H304<br>Aquatic Chronic 3; H412 | >= 12.5 - < 20  |
| 2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine   | 25513-64-8<br>247-063-2<br>01-2119560598-25                | Acute Tox. 4; H302<br>Skin Corr. 1A; H314<br>Eye Dam. 1; H318<br>Skin Sens. 1A; H317  | >= 5 - < 12.5   |
| Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane, reaction products with 2,2,4(or 2,4,4)-trimethyl-1,6-hexanediamine | 111850-23-8  | Acute Tox. 4; H302<br>Skin Corr. 1B; H314<br>Eye Dam. 1; H318<br>Skin Sens. 1A; H317  | >= 5 - < 12.5   |
| Toluene-4-sulphonic acid, monohydrate   | 6192-52-5<br>203-180-0<br>016-030-00-2<br>01-2119538811-39 | Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>STOT SE 3; H335<br>(Respiratory system)  | >= 1 - < 5      |
| 2-sec-butylphenol   | 89-72-5<br>201-933-8<br>01-2119427320-54                   | Acute Tox. 4; H302<br>Skin Corr. 1B; H314<br>Eye Dam. 1; H318   | >= 1 - < 3      |
| Fatty acids, C18-unsatd., trimers, compds. with oleylamine  | 147900-93-4<br>01-2119971821-33                            | Acute Tox. 4; H302<br>Skin Sens. 1; H317<br>STOT RE 2; H373<br>Aquatic Chronic 2; H411  | >= 0.1 - < 0.25 |
| Fatty acids, tall-oil, compds. with oleylamine  | 85711-55-3<br>288-315-1<br>01-2119974148-28                | Eye Dam. 1; H318<br>Skin Sens. 1A; H317<br>STOT RE 2; H373  | >= 0.1 - < 0.25 |

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : In all cases of doubt, or when sickness symptoms persist, seek medical attention.  
Never give anything by mouth to an unconscious person.
- If inhaled : Remove to fresh air, keep patient warm and at rest.  
Irregular breathing/no breathing: artificial respiration.  
If unconscious place in recovery position and seek medical advice.
- In case of skin contact : Take off all contaminated clothing immediately.  
Wash skin thoroughly with soap and water or use recognised skin cleanser.



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Do NOT use solvents or thinners !

- In case of eye contact : Remove contact lenses, irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and seek medical advice.
- If swallowed : Do NOT induce vomiting.  
If accidentally swallowed obtain immediate medical attention.  
Never give anything by mouth to an unconscious person.  
Keep at rest.

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

- Risks : May cause an allergic skin reaction.  
Causes serious eye damage.  
May cause drowsiness or dizziness.  
Suspected of causing cancer.  
Suspected of damaging the unborn child.  
May cause damage to organs through prolonged or repeated exposure.  
Causes severe burns.

## 4.3 Indication of any immediate medical attention and special treatment needed

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Alcohol resistant foam, CO2, powders
- Unsuitable extinguishing media : High volume water jet

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

- Specific hazards during fire-fighting : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

### 5.3 Advice for firefighters

- Special protective equipment for firefighters : Appropriate breathing apparatus may be required.
- Further information : Cool endangered containers with water in case of fire.  
DO NOT ALLOW RUN-OFF FROM FIRE FIGHTING TO ENTER DRAINS OR WATER COURSES!!

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Exclude sources of ignition and ventilate the area.  
Do not inhale vapours.  
Refer to protective measures listed in sections 7 and 8.



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## 6.2 Environmental precautions

Environmental precautions : Do not let product enter drains.  
If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

## 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see chapter 13).  
Clean preferably with a detergent; avoid use of solvents.

## 6.4 Reference to other sections

For personal protection see section 8.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Avoid contact with the skin and the eyes.  
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the occupational exposure limits.  
Comply with the health and safety at work laws.  
Smoking, eating and drinking should be prohibited in the application area.

Advice on protection against fire and explosion : The product should only be used in areas from which all naked lights and other sources of ignition have been excluded.  
Preparation may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear anti-static footwear and clothing. No sparking tools should be used. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Electrical equipment should be protected to the appropriate standard. Floors should be of the conducting type. Keep container tightly closed. Never use pressure to empty: container is not a pressure vessel. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Further information on storage conditions : Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight. Keep container dry in a cool, well-ventilated place.

Advice on common storage : Keep away from oxidizing agents and strongly acid or alkaline

|   |   |                                      |   |   |   |   |  |   |  |
|---|---|--------------------------------------|---|---|---|---|--|---|--|
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|---|---|--------------------------------------|---|---|---|---|--|---|--|

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materials.

Recommended storage temperature : 5 - 35 °C

## 7.3 Specific end use(s)

Specific use(s) : This information is not available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components           | CAS-No.  | Value type (Form of exposure)  | Control parameters               | Basis      |
|----------------------|----------|--|----------------------------------|------------|
| 4-methylpentan-2-one | 108-10-1 | TWA  | 20 ppm<br>83 mg/m <sup>3</sup>   | 2000/39/EC |
|                      |          | Further information: Indicative  |                                  |            |
|                      |          | STEL   | 50 ppm<br>208 mg/m <sup>3</sup>  | 2000/39/EC |
|                      |          | Further information: Indicative  |                                  |            |
|                      |          | TWA  | 50 ppm<br>208 mg/m <sup>3</sup>  | GB EH40    |
|                      |          | Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. |                                  |            |
|                      |          | STEL   | 100 ppm<br>416 mg/m <sup>3</sup> | GB EH40    |
|                      |          | Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. |                                  |            |
| toluene              | 108-88-3 | TWA  | 50 ppm<br>192 mg/m <sup>3</sup>  | 2006/15/EC |
|                      |          | Further information: Indicative, Identifies the possibility of significant uptake through the skin   |                                  |            |
|                      |          | STEL   | 100 ppm<br>384 mg/m <sup>3</sup> | 2006/15/EC |
|                      |          | Further information: Indicative, Identifies the possibility of significant uptake through the skin   |                                  |            |
|                      |          | TWA  | 50 ppm<br>191 mg/m <sup>3</sup>  | GB EH40    |
|                      |          | Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. |                                  |            |
|                      |          | STEL   | 100 ppm<br>384 mg/m <sup>3</sup> | GB EH40    |
|                      |          | Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. |                                  |            |
| 2-sec-butylphenol    | 89-72-5  | TWA  | 5 ppm<br>31 mg/m <sup>3</sup>    | GB EH40    |



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Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.

## Biological occupational exposure limits

| Substance name       | CAS-No.  | Control parameters                                  | Sampling time | Basis          |
|----------------------|----------|---|---------------|----------------|
| 4-methylpentan-2-one | 108-10-1 | 4-methylpentan-2-one: 20 micromol per litre (Urine) | After shift   | GB EH40<br>BAT |

## Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name                                 | End Use  | Exposure routes | Potential health effects   | Value                      |                    |
|--|--|-----------------|----------------------------|----------------------------|--------------------|
| 4-methylpentan-2-one                           | Workers  | Inhalation      | Long-term systemic effects | 83 mg/m3                   |                    |
|  | Workers  | Dermal          | Long-term systemic effects | 11.8 mg/kg bw/day          |                    |
|  | Consumers  | Inhalation      | Long-term systemic effects | 14.7 mg/m3                 |                    |
|  | Consumers  | Dermal          | Long-term systemic effects | 4.2 mg/kg bw/day           |                    |
| toluene  | Workers  | Inhalation      | Long-term systemic effects | 192 mg/m3                  |                    |
|  | Workers  | Dermal          | Long-term systemic effects | 384 mg/kg bw/day           |                    |
|  | Consumers  | Inhalation      | Long-term systemic effects | 56.5 mg/m3                 |                    |
|  | Consumers  | Dermal          | Long-term systemic effects | 226 mg/kg bw/day           |                    |
| 2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine    | Consumers  | Oral            | Long-term systemic effects | 0.05 mg/kg bw/day          |                    |
|  | Fatty acids, C18-unsatd., trimers, compds. with oleylamine | Workers         | Dermal                     | Long-term systemic effects | 0.024 mg/kg bw/day |
|  |  | Consumers       | Dermal                     | Long-term systemic effects | 0.012 mg/kg bw/day |
| Fatty acids, tall-oil, compds. with oleylamine | Consumers  | Oral            | Long-term systemic effects | 0.012 mg/kg bw/day         |                    |
|  | Workers  | Dermal          | Long-term systemic effects | 0.024 mg/kg bw/day         |                    |
|  | Consumers  | Dermal          | Long-term systemic effects | 0.012 mg/kg bw/day         |                    |
| 4-methylpentan-2-one                           | Consumers  | Oral            | Long-term systemic effects | 0.012 mg/kg bw/day         |                    |
|  | Workers  | Inhalation      | Long-term systemic effects | 83 mg/m3                   |                    |





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|  |           |            | effects                    |                    |
|--|-----------|------------|----------------------------|--------------------|
|  | Workers   | Dermal     | Long-term systemic effects | 11.8 mg/kg bw/day  |
|  | Consumers | Inhalation | Long-term systemic effects | 14.7 mg/m3         |
|  | Consumers | Dermal     | Long-term systemic effects | 4.2 mg/kg bw/day   |
|  | Consumers | Oral       | Long-term systemic effects | 4.2 mg/kg bw/day   |
| toluene  | Workers   | Inhalation | Long-term systemic effects | 192 mg/m3          |
|  | Workers   | Dermal     | Long-term systemic effects | 384 mg/kg bw/day   |
|  | Consumers | Inhalation | Long-term systemic effects | 56.5 mg/m3         |
|  | Consumers | Dermal     | Long-term systemic effects | 226 mg/kg bw/day   |
|  | Consumers | Oral       | Long-term systemic effects | 8.13 mg/kg bw/day  |
| 2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine                | Consumers | Oral       | Long-term systemic effects | 0.05 mg/kg bw/day  |
| Fatty acids, C18-unsatd., trimers, compds. with oleylamine | Workers   | Dermal     | Long-term systemic effects | 0.024 mg/kg bw/day |
|  | Consumers | Dermal     | Long-term systemic effects | 0.012 mg/kg bw/day |
|  | Consumers | Oral       | Long-term systemic effects | 0.012 mg/kg bw/day |
| Fatty acids, tall-oil, compds. with oleylamine             | Workers   | Dermal     | Long-term systemic effects | 0.024 mg/kg bw/day |
|  | Consumers | Dermal     | Long-term systemic effects | 0.012 mg/kg bw/day |
|  | Consumers | Oral       | Long-term systemic effects | 0.012 mg/kg bw/day |

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name       | Environmental Compartment | Value                         |
|----------------------|---------------------------|-------------------------------|
| 4-methylpentan-2-one | Fresh water               | 0.6 mg/l                      |
|                      | Marine water              | 0.06 mg/l                     |
|                      | Fresh water sediment      | 8.27 mg/kg dry weight (d.w.)  |
|                      | Marine sediment           | 0.83 mg/kg dry weight (d.w.)  |
|                      | Sewage treatment plant    | 27.5 mg/l                     |
| toluene              | Soil                      | 1.3 mg/kg dry weight (d.w.)   |
|                      | Fresh water               | 0.68 mg/l                     |
|                      | Marine water              | 0.68 mg/l                     |
|                      | Sewage treatment plant    | 13.61 mg/l                    |
|                      | Fresh water sediment      | 16.39 mg/kg dry weight (d.w.) |

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BIC DEUTDE33  
HYVEDE33  
PNKDEFF200

IBAN DE58 2007 0000 0600 2273 00  
DE34 2003 0000 0059 2733 00  
DE85 2001 0020 0000 3732 05

Sitz/Registriergericht Hamburg: HRA 42442  
Persönlich haftende Gesellschafterin:  
Grau Gebr. Beteiligungs-GmbH  
Sitz/Registriergericht Hamburg: HRB 17189  
Geschäftsführender Gesellschafter:  
Michael O. Grau

Bureau Veritas  
Certification:  
ISO 9001,  
TS 16949,  
EN 9100



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|  |                        |                               |
|--|------------------------|-------------------------------|
|  | Marine sediment        | 16.39 mg/kg dry weight (d.w.) |
|  | Soil                   | 2.89 mg/kg dry weight (d.w.)  |
| 2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine                | Fresh water            | 0.102 mg/l                    |
|  | Marine water           | 0.01 mg/l                     |
|  | Sewage treatment plant | 72 mg/l                       |
|  | Fresh water sediment   | 0.622 mg/kg dry weight (d.w.) |
|  | Marine sediment        | 0.062 mg/kg dry weight (d.w.) |
|  | Soil                   | 10 mg/kg dry weight (d.w.)    |
| Fatty acids, C18-unsatd., trimers, compds. with oleylamine | Fresh water            | 6 µg/l                        |
|  | Marine water           | 0.6 µg/l                      |
|  | Fresh water sediment   | 2.46 mg/kg dry weight (d.w.)  |
|  | Marine sediment        | 0.25 mg/kg dry weight (d.w.)  |
|  | Soil                   | 0.28 mg/kg dry weight (d.w.)  |
| 4-methylpentan-2-one                                       | Fresh water            | 0.6 mg/l                      |
|  | Marine water           | 0.06 mg/l                     |
|  | Fresh water sediment   | 8.27 mg/kg dry weight (d.w.)  |
|  | Marine sediment        | 0.83 mg/kg dry weight (d.w.)  |
|  | Sewage treatment plant | 27.5 mg/l                     |
|  | Soil                   | 1.3 mg/kg dry weight (d.w.)   |
| toluene  | Fresh water            | 0.68 mg/l                     |
|  | Marine water           | 0.68 mg/l                     |
|  | Sewage treatment plant | 13.61 mg/l                    |
|  | Fresh water sediment   | 16.39 mg/kg dry weight (d.w.) |
|  | Marine sediment        | 16.39 mg/kg dry weight (d.w.) |
|  | Soil                   | 2.89 mg/kg dry weight (d.w.)  |
| 2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine                | Fresh water            | 0.102 mg/l                    |
|  | Marine water           | 0.01 mg/l                     |
|  | Sewage treatment plant | 72 mg/l                       |
|  | Fresh water sediment   | 0.622 mg/kg dry weight (d.w.) |
|  | Marine sediment        | 0.062 mg/kg dry weight (d.w.) |
|  | Soil                   | 10 mg/kg dry weight (d.w.)    |
| Fatty acids, C18-unsatd., trimers, compds. with oleylamine | Fresh water            | 6 µg/l                        |

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DE58 2007 0000 0600 2273 00  
DE34 2003 0000 0059 2733 00  
DE85 2001 0020 0000 3732 05

Sitz/Registergericht Hamburg: HRA 42442  
Persönlich haftende Gesellschafterin:  
Grau Gebr. Beteiligungs-GmbH  
Sitz/Registergericht Hamburg: HRB 17189  
Geschäftsführender Gesellschafter:  
Michael O. Grau

Bureau Veritas  
Certification:  
ISO 9001,  
TS 16949,  
EN 9100



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|  |                      |                              |
|--|----------------------|------------------------------|
|  | Marine water         | 0.6 µg/l                     |
|  | Fresh water sediment | 2.46 mg/kg dry weight (d.w.) |
|  | Marine sediment      | 0.25 mg/kg dry weight (d.w.) |
|  | Soil                 | 0.28 mg/kg dry weight (d.w.) |

## 8.2 Exposure controls

### Engineering measures

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain aerosol- and solvent vapours concentration below the OEL, suitable respiratory protection must be worn.

### Personal protective equipment

Eye/face protection : Wear safety goggles to protect against solvent splashes.

Hand protection

Remarks : Adhere to the professional organisation rule "Use of protective gloves". Appropriate chemicals resistant glove tested in compliance with EN 374.  
Recommendation for protection against components generally found in the products:

For short-term contact (i.e. splash protection):

Appropriate material:

nitrile rubber, Neoprene

Material thickness: > 0,4 mm

Breakthrough time: > 480 min

Before use, the protective glove should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Preventive hand protection (skin protection cream) recommended. Wash immediately contaminated skin. Design operations thus to avoid permanent use of protective gloves.

Skin and body protection : Depending on the probability of the occurrence of dangerously explosive atmospheres, adapted protective clothing must be worn.

Respiratory protection : If the solvent concentration is above the air limit values, a breathing apparatus approved for this purpose must be worn  
Use half-mask model with cartridge or air-fed.

Protective measures : Do not eat or drink during work - no smoking.  
Avoid product contact with skin, eyes and clothing.

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Avoid the inhalation of dust from sanding, particulates and spray mist arising from the application of this preparation.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                             |   |   |
|-----------------------------|---|---|
| Physical state              | : | liquid  |
| Colour                      | : | according product name                                |
| Odour                       | : | characteristic  |
| Boiling point/boiling range | : | ca. 120 °C  |
| Upper explosion limit       | : | 10.0 %(V)   |
| Lower explosion limit       | : | 1.0 %(V)  |
| Flash point                 | : | 11.5 °C<br>Method: ISO 13736                          |
| Auto-ignition temperature   | : | > 400 °C  |
| pH                          | : | 10 - 11 (20 °C)<br>Concentration: 10 %                |
| Viscosity                   |   |   |
| Viscosity, kinematic        | : | > 21 mm <sup>2</sup> s                                |
| Flow time                   | : | 61 - 90 s<br>Cross section: 4 mm<br>Method: DIN 53211 |
|                             |   | 41 s<br>Cross section: 6 mm<br>Method: ISO 2431       |
| Solubility(ies)             |   |   |
| Water solubility            | : | insoluble   |
| Vapour pressure             | : | 100 hPa (50 °C)                                       |
| Density                     | : | 1.47 g/cm <sup>3</sup> (20 °C)                        |

### 9.2 Other information

No data available



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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

### 10.4 Conditions to avoid

Conditions to avoid : Stable under recommended storage and handling conditions (See section 7).

### 10.5 Incompatible materials

Materials to avoid : Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

### 10.6 Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

#### Components:

##### 4-methylpentan-2-one:

Acute oral toxicity : LD50 (Rat): 2,080 mg/kg

Acute inhalation toxicity : Acute toxicity estimate (Rat): 11 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008

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## Skin corrosion/irritation

Causes severe burns.

## Serious eye damage/eye irritation

Causes serious eye damage.

## Respiratory or skin sensitisation

### Skin sensitisation

May cause an allergic skin reaction.

### Respiratory sensitisation

Not classified based on available information.

### Germ cell mutagenicity

Not classified based on available information.

### Carcinogenicity

Suspected of causing cancer.

### Reproductive toxicity

Suspected of damaging the unborn child.

### STOT - single exposure

May cause drowsiness or dizziness.

### STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

### Aspiration toxicity

Not classified based on available information.

## 11.2 Information on other hazards

### Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### Further information

#### Product:

Remarks : Exposure of vapour concentration in excess of the stated OEL's may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue muscular weakness, drowsiness and in extrem cases, loss of consciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and re-



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versible damage.  
Corrosive effect of product in contact with skin, eyes and mucous membranes.  
Risk of serious damage to eyes.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

#### Ecotoxicology Assessment

Acute aquatic toxicity : There are no data available on the preparation itself.

### 12.2 Persistence and degradability

#### Product:

Biodegradability : Remarks: There are no data available on the preparation itself.

### 12.3 Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: There are no data available on the preparation itself.

### 12.4 Mobility in soil

#### Product:

Mobility : Remarks: There are no data available on the preparation itself.

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation

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(EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## 12.7 Other adverse effects

### Product:

Additional ecological information : There are no data available on the preparation itself.  
The product should not be allowed to enter drains or water courses.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.  
Contaminated packaging : Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

## SECTION 14: Transport information

### 14.1 UN number or ID number

ADR : UN 3469  
IMDG : UN 3469  
IATA : UN 3469

### 14.2 UN proper shipping name

ADR : PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE  
IMDG : PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE  
IATA : PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE

### 14.3 Transport hazard class(es)

|      | Class | Subsidiary risks |
|------|-------|------------------|
| ADR  | : 3   | 8                |
| IMDG | : 3   | 8                |
| IATA | : 3   | 8                |

### 14.4 Packing group

ADR  
Packing group : II  
Classification Code : FC  
Hazard Identification Number : 338  
Labels : 3 (8)  
Tunnel restriction code : (D/E)  
Remarks : If transported within the user's premises: To be transported



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always in closed, upright and safe containers. Make sure that persons handling these containers are aware of the rules of conduct in case of incident or spillage.

## IMDG

Packing group : II  
Labels : 3 (8)  
EmS Code : F-E, S-C

## IATA (Cargo)

Packing instruction (cargo aircraft) : 363  
Packing group : II  
Labels : Flammable Liquids, Corrosive

## IATA (Passenger)

Packing instruction (passenger aircraft) : 352  
Packing instruction (LQ) : Y340  
Packing group : II  
Labels : Flammable Liquids, Corrosive

## 14.5 Environmental hazards

### ADR

Environmentally hazardous : no

### IMDG

Marine pollutant : no

## 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:  
Number on list 3

108-88-3 (Number on list 48)

UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation : Not applicable

UK REACH List of substances subject to authorisation : Not applicable



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(Annex XIV)

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 27.4 %, 403 g/l  
VOC content excluding water

## Other regulations:

### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for the mixture.

## SECTION 16: Other information

### Full text of H-Statements

H225 : Highly flammable liquid and vapour.  
H302 : Harmful if swallowed.  
H304 : May be fatal if swallowed and enters airways.  
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.  
H336 : May cause drowsiness or dizziness.  
H351 : Suspected of causing cancer.  
H361d : Suspected of damaging the unborn child.  
H373 : May cause damage to organs through prolonged or repeated exposure.  
H373 : May cause damage to organs through prolonged or repeated exposure if inhaled.  
H373 : May cause damage to organs through prolonged or repeated exposure if swallowed.  
H411 : Toxic to aquatic life with long lasting effects.  
H412 : Harmful to aquatic life with long lasting effects.  
EUH066 : Repeated exposure may cause skin dryness or cracking.

### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Aquatic Chronic : Long-term (chronic) aquatic hazard  
Asp. Tox. : Aspiration hazard  
Carc. : Carcinogenicity  
Eye Dam. : Serious eye damage  
Eye Irrit. : Eye irritation  
Flam. Liq. : Flammable liquids  
Repr. : Reproductive toxicity  
Skin Corr. : Skin corrosion  
Skin Irrit. : Skin irritation  
Skin Sens. : Skin sensitisation  
STOT RE : Specific target organ toxicity - repeated exposure

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|                   |   |  |
|-------------------|---|--|
| STOT SE           | : | Specific target organ toxicity - single exposure   |
| 2000/39/EC        | : | Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values |
| 2006/15/EC        | : | Europe. Indicative occupational exposure limit values  |
| GB EH40           | : | UK. EH40 WEL - Workplace Exposure Limits   |
| GB EH40 BAT       | : | UK. Biological monitoring guidance values  |
| 2000/39/EC / TWA  | : | Limit Value - eight hours  |
| 2000/39/EC / STEL | : | Short term exposure limit  |
| 2006/15/EC / TWA  | : | Limit Value - eight hours  |
| 2006/15/EC / STEL | : | Short term exposure limit  |
| GB EH40 / TWA     | : | Long-term exposure limit (8-hour TWA reference period)   |
| GB EH40 / STEL    | : | Short-term exposure limit (15-minute reference period)   |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECL - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

## Further information

Other information : The information given in this material safety data sheet does not release the user from its duty of risk assessment and control in the work place defined in other health and safety law. Adhere to the national sanitary and occupational safety regulations when using this product.

This safety datasheet complies with the requirements of regu-

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| HypoVereinsbank | Hamburg | 59273300  | 200 300 00 | HYVEDE33HAN |
| Postbank        | Hamburg | 373205    | 200 100 20 | PNKDEFF200  |

|                             |   |
|-----------------------------|---|
| IBAN                        | Sitz/Registriergericht Hamburg: HRA 42442 |
| DE58 2007 0000 0600 2273 00 | Persönlich haftende Gesellschafterin:     |
| DE34 2003 0000 0059 2733 00 | Grau Gebr. Beteiligungs-GmbH              |
| DE85 2001 0020 0000 3732 05 | Sitz/Registriergericht Hamburg: HRB 17189 |
|                             | Geschäftsführender Gesellschafter:        |
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ation (EC) No 1907/2006(2020/878).

## Classification of the mixture:

|               |       |
|---------------|-------|
| Flam. Liq. 2  | H225  |
| Skin Corr. 1A | H314  |
| Eye Dam. 1    | H318  |
| Skin Sens. 1  | H317  |
| Carc. 2       | H351  |
| Repr. 2       | H361d |
| STOT SE 3     | H336  |
| STOT RE 2     | H373  |

## Classification procedure:

|                                     |
|-------------------------------------|
| Based on product data or assessment |
| Calculation method                  |
| Calculation method                  |
| Calculation method                  |
| Calculation method                  |
| Calculation method                  |
| Calculation method                  |
| Calculation method                  |

## Department issuing safety data sheet

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