

Safety Data Sheet according to (EC) No 1907/2006 as amended

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SDS No.: 173478 V008.0

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Replaces version from: 21.08.2023

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

1.1. Product identifier

LOCTITE EA 3471 Part B

LOCTITE EA 3471 Part B

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

Intended use:

Epoxy Hardener

1.3. Details of the supplier of the safety data sheet

Henkel AG & Co. KGaA

Henkelstr. 67

40589 Düsseldorf

Germany

Phone: +49 211 797 0

SDSinfo.Adhesive@henkel.com

For Safety Data Sheet updates please visit our website https://mysds.henkel.com/index.html#/appSelection or www.henkel-adhesives.com.

1.4. Emergency telephone number

The Henkel information service also provides an around-the-clock telephone service on phone no.+49-(0)211-797-3350 for exceptional cases.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

Skin corrosion Sub-category 1B

H314 Causes severe skin burns and eye damage.

Serious eye damage Category 1

H318 Causes serious eye damage.

Skin sensitizer Category 1

H317 May cause an allergic skin reaction.

Chronic hazards to the aquatic environment Category 3

H412 Harmful to aquatic life with long lasting effects.

2.2. Label elements

Label elements (CLP):

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Contains Isophorone diamine

Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine

Formaldehyde, polymer with benzenamine, hydrogenated N-(3-(Trimethoxysilyl)propyl)ethylenediamine

4,4'-Methylenebis(cyclohexylamine)

4,4'-Methylenebis(cyclohexylamine) 3,6-diazaoctanethylenediamine

benzyl alcohol

| Signal word: | Danger |
|--------------------------------------|--|
| Hazard statement: | H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects. |
| Precautionary statement: Prevention | P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. |
| Precautionary statement: Response | P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor. |

2.3. Other hazards

None if used properly.

Following substances are present in a concentration ≥ the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in a concentration \geq the concentration limit for depiction in Section 3 that are assessed to be a PBT, vPvB or ED.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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Declaration of the ingredients according to CLP (EC) No 1272/2008:

| Hazardous components CAS-No. EC Number | Concentration | Classification | Specific Conc. Limits, M- factors and ATEs | Add. Information |
|--|---------------|--|---|---------------------|
| REACH-Reg No. Isophorone diamine 2855-13-2 220-666-8 01-2119514687-32 | 5- < 10 % | Skin Sens. 1A, H317 Eye Dam. 1, H318 Skin Corr. 1B, H314 Acute Tox. 4, Oral, H302 | Skin Sens. 1A; H317; C >= 0,001 % ===== oral:ATE = 1.030 mg/kg inhalation:ATE = 5,011 mg/l; | |
| Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1 | 3- < 5 % | Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411 | | |
| benzyl alcohol 100-51-6 202-859-9 01-2119492630-38 | 2,5-< 5 % | Acute Tox. 4, Oral, H302 Eye Irrit. 2, H319 Skin Sens. 1B, H317 | dermal:ATE = 2.500 mg/kg oral:ATE = 1.200 mg/kg | |
| 1,5-Pentanediamine, 2-methyl- 15520-10-2 239-556-6 01-2119976310-41 | 1- < 2,5 % | Acute Tox. 4, Oral, H302 Acute Tox. 4, Dermal, H312 Acute Tox. 4, Inhalation, H332 Eye Dam. 1, H318 Skin Corr. 1A, H314 STOT SE 3, H335 | inhalation:ATE = 1,225 mg/l;dust/mist | |
| Formaldehyde, polymer with benzenamine, hydrogenated 135108-88-2 603-894-6 01-2119983522-33 | 1- < 2,5 % | Acute Tox. 3, Oral, H301 Skin Corr. 1C, H314 STOT RE 2, H373 Aquatic Chronic 3, H412 Eye Dam. 1, H318 Skin Sens. 1, H317 | dermal:ATE = > 2.000 mg/kg | |
| Salicylic acid 69-72-7 200-712-3 01-2119486984-17 | 1- < 2,5 % | Repr. 2, H361d Acute Tox. 4, Oral, H302 Eye Dam. 1, H318 | | |
| N-(3- (Trimethoxysilyl)propyl)ethylene diamine 1760-24-3 217-164-6 01-2119970215-39 | 0,1-< 1 % | Skin Sens. 1A, H317 Eye Dam. 1, H318 Acute Tox. 4, Inhalation, H332 STOT RE 2, Inhalation, H373 | inhalation:ATE = 1,49 mg/l;dust/mist | |
| 4,4'- Methylenebis(cyclohexylamine) 1761-71-3 217-168-8 01-2119541673-38 01-2119979542-27 | 0,1-< 1 % | Acute Tox. 4, Oral, H302 Skin Corr. 1B, H314 Skin Sens. 1, H317 STOT RE 2, Oral, H373 Eye Dam. 1, H318 | | |
| 3,6-diazaoctanethylenediamine 112-24-3 203-950-6 01-2119487919-13 | 0,01-< 0,25 % | Acute Tox. 4, Oral, H302 Acute Tox. 4, Dermal, H312 Skin Sens. 1, H317 Skin Corr. 1B, H314 Aquatic Chronic 3, H412 | | |

If no ATE values are displayed, please refer to LD/LC50 values in Section 11. For full text of the H - statements and other abbreviations see section 16 "Other information".

SECTION 4: First aid measures

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Inhalation:

Move to fresh air. If symptoms persist, seek medical advice.

Skin contact:

Rinse with running water and soap.

Obtain medical attention if irritation persists.

Eye contact:

Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

Ingestion:

Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

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

SKIN: Rash, Urticaria.

Causes burns.

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

See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

water, carbon dioxide, foam, powder

Extinguishing media which must not be used for safety reasons:

High pressure waterjet

5.2. Special hazards arising from the substance or mixture

In the event of a fire, carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx) can be released.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

Additional information:

In case of fire, keep containers cool with water spray.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.

Wear protective equipment.

Ensure adequate ventilation.

Avoid dust formation.

6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

6.3. Methods and material for containment and cleaning up

Dispose of contaminated material as waste according to Section 13.

Scrape up as much material as possible.

Sweep up spilled material. Avoid creating dust.

Store in a partly filled, closed container until disposal.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

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7.1. Precautions for safe handling

Avoid skin and eye contact. See advice in section 8

Hygiene measures:

Wash hands before work breaks and after finishing work. Do not eat, drink or smoke while working. Good industrial hygiene practices should be observed.

7.2. Conditions for safe storage, including any incompatibilities

Store in sealed original container. Store in a cool, well-ventilated place. Refer to Technical Data Sheet.

7.3. Specific end use(s)

Epoxy Hardener

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for

Germany

| Ingredient [Regulated substance] | ppm | mg/m ³ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|----------------------------------|-----|-------------------|--|--|-----------------|
| Benzyl alcohol 100-51-6 | | | Short Term Exposure Classification: | Category I: substances for which the localized effect has an assigned OEL or for substances with a sensitizing effect in respiratory passages. | TRGS 900 |
| Benzyl alcohol 100-51-6 | 5 | 22 | Exposure limit(s): | If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900 |
| Benzyl alcohol 100-51-6 | | | Skin designation: | Can be absorbed through the skin. | TRGS 900 |

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Predicted No-Effect Concentration (PNEC):

| Name on list | Environmental Compartment | Exposure period | Value | | | | Remarks |
|--|------------------------------|-----------------|------------|----------|-------------|--------|------------------|
| | | | mg/l | ppm | mg/kg | others | |
| 3-Aminomethyl-3,5,5- | aqua | | 0,06 mg/l | | | | |
| trimethylcyclohexylamine | (freshwater) | | | | | | |
| 2855-13-2 | | | 1 | | | | |
| 3-Aminomethyl-3,5,5- | aqua (marine | | 0,006 mg/l | | | | |
| trimethylcyclohexylamine | water) | | | | | | |
| 2855-13-2 | | | 1 | | | | |
| 3-Aminomethyl-3,5,5- | aqua | | 0,23 mg/l | | | | |
| trimethylcyclohexylamine | (intermittent | | | | | | |
| 2855-13-2 | releases) | | | | | | |
| 3-Aminomethyl-3,5,5- | sediment | | | | 5,784 | | |
| trimethylcyclohexylamine | (freshwater) | | | | mg/kg | | |
| 2855-13-2 | | | | | | | |
| 3-Aminomethyl-3,5,5- | sediment | | | | 0,578 | | |
| trimethylcyclohexylamine | (marine water) | | | | mg/kg | | |
| 2855-13-2 | | | | | | | |
| 3-Aminomethyl-3,5,5- | Soil | | | | 1,121 | | |
| trimethylcyclohexylamine | | | | | mg/kg | | |
| 2855-13-2 | | | | | | | |
| 3-Aminomethyl-3,5,5- | sewage | | 3,18 mg/l | | | | |
| trimethylcyclohexylamine | treatment plant | | | | | | |
| 2855-13-2 | (STP) | | | | | | |
| Fatty acids, C18 unsaturated, dimers, | aqua | | 0,00434 | | | | |
| polymers with tall oil fatty acids and | (freshwater) | | mg/l | | | | |
| triethylenetetramine | | | | | | | |
| 68082-29-1 | | | | | | | |
| Fatty acids, C18 unsaturated, dimers, | aqua (marine | | 0,00043 | | | | |
| polymers with tall oil fatty acids and | water) | | mg/l | | | | |
| triethylenetetramine | | | | | | | |
| 68082-29-1 | | | | | | | |
| Fatty acids, C18 unsaturated, dimers, | aqua | | 0,0434 | | | | |
| polymers with tall oil fatty acids and | (intermittent | | mg/l | | | | |
| triethylenetetramine 68082-29-1 | releases) | | | | | | |
| | | | 2.04 // | | | | |
| Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and | sewage | | 3,84 mg/l | | | | |
| triethylenetetramine | treatment plant (STP) | | | | | | |
| 68082-29-1 | (314) | | | | | | |
| Fatty acids, C18 unsaturated, dimers, | sediment | | | | 434,02 | | |
| polymers with tall oil fatty acids and | (freshwater) | | | | mg/kg | | |
| triethylenetetramine | (iresirwater) | | | | mg/kg | | |
| 68082-29-1 | | | | | | | |
| Fatty acids, C18 unsaturated, dimers, | sediment | | 1 | | 43,4 mg/kg | | |
| polymers with tall oil fatty acids and | (marine water) | | | | 15,1119/119 | | |
| triethylenetetramine | (marine water) | | | | | | |
| 68082-29-1 | | | | | | | |
| Fatty acids, C18 unsaturated, dimers, | Soil | | | | 86,78 | | |
| polymers with tall oil fatty acids and | | | | | mg/kg | | |
| triethylenetetramine | | | | | | | |
| 68082-29-1 | | | | | | | |
| Benzyl alcohol | Soil | | | | 0,456 | | |
| 100-51-6 | | | | <u></u> | mg/kg | | |
| Benzyl alcohol | sewage | | 39 mg/l | | | | |
| 100-51-6 | treatment plant | | | | | | |
| | (STP) | | | | | | |
| Benzyl alcohol | sediment | | | | 5,27 mg/kg | | |
| 100-51-6 | (freshwater) | | | | | | |
| Benzyl alcohol | sediment | | _ | | 0,527 | | |
| 100-51-6 | (marine water) | | 1 | | mg/kg | | |
| Benzyl alcohol | aqua (marine | | 0,1 mg/l | | | | |
| 100-51-6 | water) | | | | | | |
| Benzyl alcohol | aqua | | 2,3 mg/l | | | | |
| 100-51-6 | (intermittent | | | | | | |
| | releases) | | | ļ | | | |
| Benzyl alcohol | aqua | | 1 mg/l | | | | |
| 100-51-6 | (freshwater) | | | ļ | | | |
| Benzyl alcohol | Predator | | | | | | no potential for |
| 100-51-6 | | | 1 | <u> </u> | | | bioaccumulation |

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| 1 | | 1 | 1 1 | i |
|---|------------------------------------|------------|----------------|---|
| 2-Methylpentane-1,5-diamine 15520-10-2 | aqua (freshwater) | 0,42 mg/l | | |
| 2-Methylpentane-1,5-diamine 15520-10-2 | aqua (marine water) | 0,042 mg/l | | |
| 2-Methylpentane-1,5-diamine | sewage | 1250 mg/l | | |
| 15520-10-2 | treatment plant (STP) | | | |
| 2-Methylpentane-1,5-diamine | sediment | | 7,58 mg/kg | |
| 15520-10-2 2-Methylpentane-1,5-diamine | (freshwater) | | 0,758 | |
| 15520-10-2 | (marine water) | | mg/kg | |
| 2-Methylpentane-1,5-diamine 15520-10-2 | Soil | | 1,27 mg/kg | |
| 2-Methylpentane-1,5-diamine 15520-10-2 | aqua (intermittent releases) | 0,42 mg/l | | |
| Formaldehyde, polymer with benzenamine, | aqua | 0,015 mg/l | | |
| hydrogenated 135108-88-2 | (freshwater) | | | |
| Formaldehyde, polymer with benzenamine, | aqua (marine | 0,002 mg/l | | |
| hydrogenated 135108-88-2 | water) | | | |
| Formaldehyde, polymer with benzenamine, | aqua | 0,15 mg/l | | |
| hydrogenated 135108-88-2 | (intermittent releases) | | | |
| Formaldehyde, polymer with benzenamine, | sewage | 1,9 mg/l | | |
| hydrogenated 135108-88-2 | treatment plant (STP) | | | |
| Formaldehyde, polymer with benzenamine, | sediment | | 15 mg/kg | |
| hydrogenated 135108-88-2 | (freshwater) | | | |
| Formaldehyde, polymer with benzenamine, | sediment | | 1,5 mg/kg | |
| hydrogenated 135108-88-2 | (marine water) | | | |
| Formaldehyde, polymer with benzenamine, | Soil | | 1,8 mg/kg | |
| hydrogenated 135108-88-2 | | | | |
| Salicylic acid | aqua | 0,2 mg/l | | |
| 69-72-7 Salicylic acid | (freshwater) aqua (marine | 0,02 mg/l | | |
| 69-72-7 | water) | | | |
| Salicylic acid 69-72-7 | aqua (intermittent releases) | 1 mg/l | | |
| Salicylic acid | sewage | 162 mg/l | | |
| 69-72-7 | treatment plant (STP) | | | |
| Salicylic acid 69-72-7 | sediment (freshwater) | | 1,42 mg/kg | |
| Salicylic acid | sediment | | 0,142 | |
| 69-72-7 | (marine water) | | mg/kg | |
| Salicylic acid 69-72-7 | Soil | | 0,166 mg/kg | |
| N-(3- | aqua | 0,05 mg/l | | |
| (Trimethoxysilyl)propyl)ethylenediamine 1760-24-3 | (freshwater) | | | |
| N-(3- | aqua (marine | 0,005 mg/l | | |
| (Trimethoxysilyl)propyl)ethylenediamine 1760-24-3 | water) | | | |
| N-(3- | Freshwater - | 0,072 mg/l | | |
| (Trimethoxysilyl)propyl)ethylenediamine 1760-24-3 | intermittent | | | |
| N-(3- | sediment | | 0,181 | |
| (Trimethoxysilyl)propyl)ethylenediamine 1760-24-3 | (freshwater) | | mg/kg | |
| N-(3- | sediment | | 0,018 | |
| (Trimethoxysilyl)propyl)ethylenediamine 1760-24-3 | (marine water) | | mg/kg | |
| N-(3- (Trimethoxysilyl)propyl)ethylenediamine 1760-24-3 | Soil | | 0,007 mg/kg | |
| N-(3- | sewage | 20 mg/l | | |
| (Trimethoxysilyl)propyl)ethylenediamine | treatment plant | | | |

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| 1760-24-3 | (STP) | | | |
|------------------------------------|-----------------|------------|------------|--|
| 4,4'-Methylenebis(cyclohexylamine) | aqua | 0,08 mg/l | | |
| 1761-71-3 | (intermittent | | | |
| | releases) | | | |
| 4,4'-Methylenebis(cyclohexylamine) | sediment | | 136,6 | |
| 1761-71-3 | (freshwater) | | mg/kg | |
| 4,4'-Methylenebis(cyclohexylamine) | aqua (marine | 0,008 mg/l | | |
| 1761-71-3 | water) | | | |
| 4,4'-Methylenebis(cyclohexylamine) | sediment | | 13,7 mg/kg | |
| 1761-71-3 | (marine water) | | | |
| 4,4'-Methylenebis(cyclohexylamine) | sewage | 3,2 mg/l | | |
| 1761-71-3 | treatment plant | | | |
| | (STP) | | | |
| 4,4'-Methylenebis(cyclohexylamine) | Soil | | 27,3 mg/kg | |
| 1761-71-3 | | | | |
| 4,4'-Methylenebis(cyclohexylamine) | aqua | 0,08 mg/l | | |
| 1761-71-3 | (freshwater) | | | |
| 3,6-diazaoctanethylenediamine | aqua | 0,027 mg/l | | |
| 112-24-3 | (freshwater) | | | |
| 3,6-diazaoctanethylenediamine | aqua (marine | 0,003 mg/l | | |
| 112-24-3 | water) | | | |
| 3,6-diazaoctanethylenediamine | Sewage | 0,13 mg/l | | |
| 112-24-3 | treatment plant | | 0.774 | |
| 3,6-diazaoctanethylenediamine | sediment | | 8,572 | |
| 112-24-3 | (freshwater) | | mg/kg | |
| 3,6-diazaoctanethylenediamine | sediment | | 0,857 | |
| 112-24-3 | (marine water) | | mg/kg | |
| 3,6-diazaoctanethylenediamine | Soil | | 1,25 mg/kg | |
| 112-24-3 | | 0.0 | | |
| 3,6-diazaoctanethylenediamine | Freshwater - | 0,2 mg/l | | |
| 112-24-3 | intermittent | 0.00 # | | |
| 3,6-diazaoctanethylenediamine | Marine water - | 0,02 mg/l | | |
| 112-24-3 | intermittent | | | |

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Derived No-Effect Level (DNEL):

| Name on list | Application Area | Route of Exposure | Health Effect | Exposure Time | Value | Remarks |
|--|-----------------------|----------------------|--|------------------|-------------|-------------------------------------|
| 3-Aminomethyl-3,5,5- trimethylcyclohexylamine 2855-13-2 | Workers | inhalation | Long term exposure - local effects | | 0,073 mg/m3 | |
| 3-Aminomethyl-3,5,5- trimethylcyclohexylamine 2855-13-2 | Workers | inhalation | Acute/short term exposure - local effects | | 0,073 mg/m3 | |
| 3-Aminomethyl-3,5,5- trimethylcyclohexylamine 2855-13-2 | General population | oral | Long term exposure - systemic effects | | 0,526 mg/kg | |
| Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1 | Workers | inhalation | Long term exposure - systemic effects | | 3,9 mg/m3 | |
| Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1 | Workers | dermal | Long term exposure - systemic effects | | 1,1 mg/kg | |
| Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1 | General population | inhalation | Long term exposure - systemic effects | | 0,97 mg/m3 | |
| Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1 | General population | dermal | Long term exposure - systemic effects | | 0,56 mg/kg | |
| Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1 | General population | oral | Long term exposure - systemic effects | | 0,56 mg/kg | |
| Benzyl alcohol 100-51-6 | General population | oral | Acute/short term exposure - systemic effects | | 20 mg/kg | no potential for bioaccumulation |
| Benzyl alcohol 100-51-6 | General population | oral | Long term exposure - systemic effects | | 4 mg/kg | no potential for bioaccumulation |
| Benzyl alcohol 100-51-6 | Workers | inhalation | Acute/short term exposure - systemic effects | | 110 mg/m3 | no potential for bioaccumulation |
| Benzyl alcohol 100-51-6 | Workers | inhalation | Long term exposure - systemic effects | | 22 mg/m3 | no potential for bioaccumulation |
| Benzyl alcohol 100-51-6 | General population | inhalation | Acute/short term exposure - systemic effects | | 27 mg/m3 | no potential for bioaccumulation |
| Benzyl alcohol 100-51-6 | General population | inhalation | Long term exposure - systemic effects | | 5,4 mg/m3 | no potential for bioaccumulation |
| Benzyl alcohol 100-51-6 | Workers | dermal | Acute/short term exposure - systemic effects | | 40 mg/kg | no potential for bioaccumulation |
| Benzyl alcohol 100-51-6 | Workers | dermal | Long term exposure - systemic effects | | 8 mg/kg | no potential for bioaccumulation |
| Benzyl alcohol 100-51-6 | General population | dermal | Acute/short term exposure - systemic effects | | 20 mg/kg | no potential for bioaccumulation |
| Benzyl alcohol 100-51-6 | General population | dermal | Long term exposure - systemic effects | | 4 mg/kg | no potential for bioaccumulation |
| 2-Methylpentane-1,5-diamine 15520-10-2 | Workers | inhalation | Long term exposure - local effects | | 0,25 mg/m3 | |
| 2-Methylpentane-1,5-diamine 15520-10-2 | Workers | inhalation | Acute/short term exposure - local effects | | 0,5 mg/m3 | |
| 2-Methylpentane-1,5-diamine 15520-10-2 | Workers | dermal | Long term exposure - systemic effects | | 1,5 mg/kg | |

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| 2-Methylpentane-1,5-diamine 15520-10-2 | General population | inhalation | Long term exposure - local effects | 0,125 mg/m3 | |
|--|-----------------------|------------|--|-------------|--|
| 2-Methylpentane-1,5-diamine 15520-10-2 | General population | inhalation | Acute/short term exposure - local effects | 0,25 mg/m3 | |
| 2-Methylpentane-1,5-diamine 15520-10-2 | General population | dermal | Long term exposure - systemic effects | 0,75 mg/kg | |
| 2-Methylpentane-1,5-diamine 15520-10-2 | General population | oral | Long term exposure - systemic effects | 0,75 mg/kg | |
| Formaldehyde, polymer with benzenamine, hydrogenated 135108-88-2 | Workers | inhalation | Long term exposure - systemic effects | 0,2 mg/m3 | |
| Formaldehyde, polymer with benzenamine, hydrogenated 135108-88-2 | Workers | inhalation | Acute/short term exposure - systemic effects | 2 mg/m3 | |
| Formaldehyde, polymer with benzenamine, hydrogenated 135108-88-2 | Workers | dermal | Long term exposure - systemic effects | 2 mg/kg | |
| Formaldehyde, polymer with benzenamine, hydrogenated 135108-88-2 | Workers | dermal | Acute/short term exposure - systemic effects | 6 mg/kg | |
| Salicylic acid 69-72-7 | Workers | inhalation | Long term exposure - systemic effects | 4,48 mg/m3 | |
| Salicylic acid 69-72-7 | Workers | dermal | Long term exposure - systemic effects | 1,06 mg/kg | |
| Salicylic acid 69-72-7 | General population | inhalation | Long term exposure - systemic effects | 0,79 mg/m3 | |
| Salicylic acid 69-72-7 | General population | dermal | Long term exposure - systemic effects | 0,378 mg/kg | |
| Salicylic acid 69-72-7 | General population | oral | Long term exposure - systemic effects | 0,227 mg/kg | |
| N-(3- (Trimethoxysilyl)propyl)ethylenediamine 1760-24-3 | Workers | inhalation | Long term exposure - systemic effects | 130 mg/m3 | |
| N-(3- (Trimethoxysilyl)propyl)ethylenediamine 1760-24-3 | Workers | inhalation | Acute/short term exposure - local effects | 5,36 mg/m3 | |
| N-(3- (Trimethoxysilyl)propyl)ethylenediamine 1760-24-3 | General population | inhalation | Long term exposure - systemic effects | 26 mg/m3 | |
| N-(3- (Trimethoxysilyl)propyl)ethylenediamine 1760-24-3 | General population | oral | Long term exposure - systemic effects | 4 mg/kg | |
| N-(3- (Trimethoxysilyl)propyl)ethylenediamine 1760-24-3 | General population | inhalation | Acute/short term exposure - local effects | 4 mg/m3 | |
| N-(3- (Trimethoxysilyl)propyl)ethylenediamine 1760-24-3 | Workers | inhalation | Long term exposure - local effects | 0,6 mg/m3 | |
| N-(3- (Trimethoxysilyl)propyl)ethylenediamine 1760-24-3 | General population | inhalation | Long term exposure - local effects | 0,1 mg/m3 | |
| N-(3- (Trimethoxysilyl)propyl)ethylenediamine 1760-24-3 | General population | inhalation | Acute/short term exposure - systemic effects | 26400 mg/m3 | |
| N-(3- (Trimethoxysilyl)propyl)ethylenediamine 1760-24-3 | Workers | dermal | Long term exposure - local effects | | |
| N-(3- (Trimethoxysilyl)propyl)ethylenediamine 1760-24-3 | Workers | dermal | Acute/short term exposure - local effects | | |
| N-(3- (Trimethoxysilyl)propyl)ethylenediamine 1760-24-3 | General population | dermal | Long term exposure - local effects | | |
| N-(3- | General | dermal | Acute/short term | | |

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| (Trimethoxysilyl)propyl)ethylenediamine 1760-24-3 | population | | exposure - local effects | | |
|---|--------------------|------------|---|-------------|--|
| 4,4'-Methylenebis(cyclohexylamine) 1761-71-3 | Workers | inhalation | Long term exposure - systemic effects | 0,13 mg/m3 | |
| 4,4'-Methylenebis(cyclohexylamine) 1761-71-3 | Workers | dermal | Long term exposure - systemic effects | 0,053 mg/kg | |
| 4,4'-Methylenebis(cyclohexylamine) 1761-71-3 | Workers | inhalation | Long term exposure - local effects | | |
| 4,4'-Methylenebis(cyclohexylamine) 1761-71-3 | Workers | inhalation | Acute/short term exposure - local effects | | |
| 4,4'-Methylenebis(cyclohexylamine) 1761-71-3 | Workers | dermal | Long term exposure - local effects | | |
| 4,4'-Methylenebis(cyclohexylamine) 1761-71-3 | Workers | dermal | Long term exposure - local effects | | |
| 3,6-diazaoctanethylenediamine 112-24-3 | Workers | inhalation | Long term exposure - systemic effects | 0,54 mg/m3 | |
| 3,6-diazaoctanethylenediamine 112-24-3 | General population | inhalation | Long term exposure - systemic effects | 0,096 mg/m3 | |
| 3,6-diazaoctanethylenediamine 112-24-3 | General population | oral | Long term exposure - systemic effects | 0,14 mg/kg | |

Biological Exposure Indices:

None

8.2. Exposure controls:

Engineering controls:

Ensure good ventilation/extraction.

Respiratory protection:

Ensure adequate ventilation.

An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area

Filter type: A (EN 14387)

Hand protection:

Chemical-resistant protective gloves (EN 374).

Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:

Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing. Protective eye equipment should conform to EN166.

Skin protection:

Wear suitable protective clothing.

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

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Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Delivery form paste Colour grey Odor amine-like Physical state solid

Not applicable, Product is a solid. Solidification temperature

> 200 °C (> 392 °F) Initial boiling point

Flammability The product is not flammable. Explosive limits Not applicable, Product is a solid.

> 101 °C (> 213.8 °F) Flash point

Not applicable, Product is a solid. Auto-ignition temperature

Decomposition temperature Not applicable, Substance/mixture is not self-reactive, no organic

peroxide and does not decompose under foreseen conditions of use

(20 °C (68 °F); Conc.: 100 %)

Viscosity (kinematic) Not applicable, Product is a solid.

Solubility (qualitative) Insoluble

(20 °C (68 °F); Solvent: Water)

Solubility (qualitative) Soluble

(Solvent: organic solvent)

Partition coefficient: n-octanol/water Not applicable

Mixture

0.02 hPa Vapour pressure

(20 °C (68 °F))

Density 2,4 g/cm3 None

(20 °C (68 °F))

Relative vapour density: Not applicable, Product is a solid. Particle characteristics Not applicable, mixture is a paste.

9.2. Other information

Other information not applicable for this product

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with strong oxidants. Reaction with strong acids.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

Stable under normal conditions of storage and use.

10.5. Incompatible materials

See section reactivity.

10.6. Hazardous decomposition products

carbon oxides.

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SECTION 11: Toxicological information

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

Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Species | Method |
|---|--|---------------|---------|---|
| Isophorone diamine 2855-13-2 | Acute toxicity estimate (ATE) | 1.030 mg/kg | | Expert judgement |
| Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1 | LD50 | > 2.000 mg/kg | rat | OECD Guideline 423 (Acute Oral toxicity) |
| benzyl alcohol 100-51-6 | Acute toxicity estimate (ATE) | 1.200 mg/kg | | Expert judgement |
| 1,5-Pentanediamine, 2- methyl- 15520-10-2 | LD50 | 1.170 mg/kg | rat | OECD Guideline 401 (Acute Oral Toxicity) |
| Formaldehyde, polymer with benzenamine, hydrogenated 135108-88-2 | LD50 | 300 mg/kg | rat | OECD Guideline 423 (Acute Oral toxicity) |
| Salicylic acid 69-72-7 | LD50 | 891 mg/kg | rat | equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) |
| N-(3- (Trimethoxysilyl)propyl)e thylenediamine 1760-24-3 | LD50 | 2.295 mg/kg | rat | EPA OPPTS 870.1100 (Acute Oral Toxicity) |
| 4,4'- Methylenebis(cyclohexyla mine) 1761-71-3 | LD50 | 380 mg/kg | rat | EPA OPP 81-1 (Acute Oral Toxicity) |
| 3,6- diazaoctanethylenediamin e 112-24-3 | LD50 | 1.591 mg/kg | rat | OECD Guideline 401 (Acute Oral Toxicity) |

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Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances | Value | Value | Species | Method |
|---|--|---------------|---------|---|
| CAS-No. Isophorone diamine | type LD50 | > 2.000 mg/kg | rat | OECD Guideline 402 (Acute Dermal Toxicity) |
| 2855-13-2 | LD30 | > 2.000 mg/kg | Tat | OLCD Guideline 402 (Acute Definal Toxicity) |
| Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1 | LD50 | > 2.000 mg/kg | rat | OECD Guideline 402 (Acute Dermal Toxicity) |
| benzyl alcohol 100-51-6 | Acute toxicity estimate (ATE) | 2.500 mg/kg | | Expert judgement |
| 1,5-Pentanediamine, 2- methyl- 15520-10-2 | LD50 | 1.870 mg/kg | rat | OECD Guideline 402 (Acute Dermal Toxicity) |
| Formaldehyde, polymer with benzenamine, hydrogenated 135108-88-2 | Acute toxicity estimate (ATE) | > 2.000 mg/kg | rabbit | Expert judgement |
| Salicylic acid 69-72-7 | LD50 | > 2.000 mg/kg | rat | OECD Guideline 402 (Acute Dermal Toxicity) |
| N-(3- (Trimethoxysilyl)propyl)e thylenediamine 1760-24-3 | LD50 | > 2.000 mg/kg | rat | EPA OPPTS 870.1200 (Acute Dermal Toxicity) |
| 4,4'- Methylenebis(cyclohexyla mine) 1761-71-3 | LD50 | 2.110 mg/kg | rabbit | not specified |
| 3,6- diazaoctanethylenediamin e 112-24-3 | LD50 | 1.465 mg/kg | rabbit | OECD Guideline 402 (Acute Dermal Toxicity) |

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Acute inhalative toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Test atmosphere | Exposure time | Species | Method |
|---|--|------------------|-----------------|------------------|---------|--|
| Isophorone diamine 2855-13-2 | LC50 | > 5,01 mg/1 | dust/mist | 4 h | rat | OECD Guideline 403 (Acute Inhalation Toxicity) |
| Isophorone diamine 2855-13-2 | Acute toxicity estimate (ATE) | 5,011 mg/l | | | | Expert judgement |
| benzyl alcohol 100-51-6 | LC50 | > 5,4 mg/l | dust/mist | 4 h | rat | OECD Guideline 403 (Acute Inhalation Toxicity) |
| 1,5-Pentanediamine, 2- methyl- 15520-10-2 | Acute toxicity estimate (ATE) | 1,225 mg/l | dust/mist | 4 h | | Expert judgement |
| N-(3- (Trimethoxysilyl)propyl)e thylenediamine 1760-24-3 | LC50 | 1,49 - 2,44 mg/l | dust/mist | 4 h | rat | EPA OPPTS 870.1300 (Acute inhalation toxicity) |
| N-(3- (Trimethoxysilyl)propyl)e thylenediamine 1760-24-3 | Acute toxicity estimate (ATE) | 1,49 mg/l | dust/mist | | | Expert judgement |

Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result | Exposure time | Species | Method |
|---|----------------------------|---------------|--|---|
| Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1 | irritating or corrosive | | Human, EpiDermTM SIT (EPI-200), Reconstructed Human Epidermis (RHE) | OECD Guideline 439 (In Vitro Skin Irritation: Reconstructed Human Epidermis (RHE) Test Method) |
| Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1 | not corrosive | | Human, in vitro skin model | OECD Guideline 431 (In Vitro Skin Corrosion: Reconstructed Human Epidermis (RHE) Test Method) |
| benzyl alcohol 100-51-6 | not irritating | 4 h | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| 1,5-Pentanediamine, 2- methyl- 15520-10-2 | highly corrosive | 3 min | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| Formaldehyde, polymer with benzenamine, hydrogenated 135108-88-2 | Category 1C (corrosive) | | Corrositex Biobarrier Membrane (reconstituted collagen matrix) | OECD Guideline 435 (In Vitro Membrane Barrier Test Method for Skin Corrosion) |
| Salicylic acid 69-72-7 | slightly irritating | | rabbit | not specified |
| N-(3- (Trimethoxysilyl)propyl)e thylenediamine 1760-24-3 | mildly irritating | 4 h | rabbit | EPA OPPTS 870.2500 (Acute Dermal Irritation) |
| 4,4'- Methylenebis(cyclohexyla mine) 1761-71-3 | corrosive | 2,75 h | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| 3,6- diazaoctanethylenediamin e 112-24-3 | corrosive | | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |

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Serious eye damage/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result | Exposure time | Species | Method |
|---|---|---------------|---------|---|
| Isophorone diamine 2855-13-2 | corrosive | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1 | Category 1 (irreversible effects on the eye) | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| benzyl alcohol 100-51-6 | irritating | 24 h | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Salicylic acid 69-72-7 | highly irritating | | rabbit | Draize Test |
| N-(3- (Trimethoxysilyl)propyl)e thylenediamine 1760-24-3 | highly irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| 4,4'- Methylenebis(cyclohexyla mine) 1761-71-3 | Category 1 (irreversible effects on the eye) | | rabbit | not specified |

Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances | Result | Test type | Species | Method |
|---------------------------|-----------------|-------------------------|------------|---|
| CAS-No. | | | | |
| Isophorone diamine | sensitising | Guinea pig maximisation | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| 2855-13-2 | | test | | |
| Fatty acids, C18 | sensitising | Mouse local lymphnode | mouse | OECD Guideline 429 (Skin Sensitisation: |
| unsaturated, dimers, | | assay (LLNA) | | Local Lymph Node Assay) |
| polymers with tall oil | | | | |
| fatty acids and | | | | |
| triethylenetetramine | | | | |
| 68082-29-1 | | | | |
| Fatty acids, C18 | sensitising | Guinea pig maximisation | guinea pig | equivalent or similar to OECD Guideline |
| unsaturated, dimers, | | test | | 406 (Skin Sensitisation) |
| polymers with tall oil | | | | |
| fatty acids and | | | | |
| triethylenetetramine | | | | |
| 68082-29-1 | | | | |
| Formaldehyde, polymer | sensitising | Buehler test | guinea pig | Buehler test |
| with benzenamine, | | | | |
| hydrogenated | | | | |
| 135108-88-2 | | | | |
| Salicylic acid | not sensitising | Mouse local lymphnode | mouse | equivalent or similar to OECD Guideline |
| 69-72-7 | | assay (LLNA) | | 429 (Skin Sensitisation: Local Lymph |
| | | | | Node Assay) |
| N-(3- | Sub-Category 1A | Guinea pig maximisation | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| (Trimethoxysilyl)propyl)e | (sensitising) | test | | |
| thylenediamine | | | | |
| 1760-24-3 | | | | |
| 3,6- | sensitising | Guinea pig maximisation | guinea pig | equivalent or similar to OECD Guideline |
| diazaoctanethylenediamin | | test | | 406 (Skin Sensitisation) |
| e | | | | |
| 112-24-3 | | | | |

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Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result | Type of study / Route of administration | Metabolic activation / Exposure time | Species | Method |
|---|----------|---|--|---------|---|
| Isophorone diamine 2855-13-2 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | EU Method B.13/14 (Mutagenicity) |
| Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1 | negative | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| benzyl alcohol 100-51-6 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Salicylic acid 69-72-7 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Salicylic acid 69-72-7 | negative | in vitro mammalian chromosome aberration test | with and without | | equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| Salicylic acid 69-72-7 | negative | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| 3,6- diazaoctanethylenediamin e 112-24-3 | positive | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| 3,6- diazaoctanethylenediamin e 112-24-3 | negative | DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro | with and without | | OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro) |
| benzyl alcohol 100-51-6 | negative | intraperitoneal | | mouse | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |
| Salicylic acid 69-72-7 | negative | oral: gavage | | mouse | equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test) |
| 3,6- diazaoctanethylenediamin e 112-24-3 | negative | intraperitoneal | | mouse | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |
| <u> </u> | 1 | | I | 1 | ı |

Carcinogenicity

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous components CAS-No. | Result | Route of application | Exposure time / Frequency of treatment | Species | Sex | Method |
|---------------------------------|------------------|----------------------|---|---------|-------------|---|
| benzyl alcohol 100-51-6 | not carcinogenic | oral: gavage | 104 weeks once daily, 5 days/week | rat | male/female | equivalent or similar OECD Guideline 451 (Carcinogenicity Studies) |
| Salicylic acid 69-72-7 | not carcinogenic | oral: feed | 2 years daily | rat | male/female | not specified |

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Reproductive toxicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances | Result / Value | Test type | Route of | Species | Method |
|---------------------------------|-------------------|-------------------------------|--------------|---------|--|
| CAS-No. benzyl alcohol 100-51-6 | NOAEL P 200 mg/kg | screening | oral: gavage | mouse | not specified |
| Salicylic acid 69-72-7 | NOAEL P 250 mg/kg | three- generation study | oral: feed | rat | equivalent or similar to OECD Guideline 416 (Two- Generation Reproduction Toxicity Study) |

STOT-single exposure:

No data available.

STOT-repeated exposure:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result / Value | Route of application | Exposure time / Frequency of treatment | Species | Method |
|---|------------------|----------------------------|--|---------|---|
| Isophorone diamine 2855-13-2 | NOAEL < 60 mg/kg | oral: drinking water | 13 weeks | rat | OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| benzyl alcohol 100-51-6 | NOAEL 400 mg/kg | oral: gavage | 13 weeks once daily, 5 days/week | rat | equivalent or similar to OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| Formaldehyde, polymer with benzenamine, hydrogenated 135108-88-2 | NOAEL 15 mg/kg | oral: gavage | 28 d daily | rat | OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents) |
| Salicylic acid 69-72-7 | NOAEL 50 mg/kg | oral: feed | 2 years daily | rat | not specified |
| 4,4'- Methylenebis(cyclohexyla mine) 1761-71-3 | NOAEL 15 mg/kg | oral: gavage | M: 36 d / F: 48-52 d daily | rat | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| 3,6- diazaoctanethylenediamin e 112-24-3 | LOAEL 50 mg/kg | oral: gavage | 26 w daily | rat | OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| 3,6- diazaoctanethylenediamin e 112-24-3 | NOAEL 50 mg/kg | oral: gavage | 26 w daily | rat | OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |

Aspiration hazard:

No data available.

11.2 Information on other hazards

not applicable

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SECTION 12: Ecological information

General ecological information:

Do not empty into drains / surface water / ground water.

12.1. Toxicity

Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances | Value | Value | Exposure time | Species | Method |
|--|-------|------------|---------------|---------------------|---|
| CAS-No. | type | | | | |
| Isophorone diamine 2855-13-2 | LC50 | 110 mg/l | 96 h | Leuciscus idus | EU Method C.1 (Acute Toxicity for Fish) |
| Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1 | LC50 | 7,07 mg/l | 96 h | Danio rerio | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| benzyl alcohol 100-51-6 | LC50 | 460 mg/l | 96 h | Pimephales promelas | EPA OPP 72-1 (Fish Acute Toxicity Test) |
| 1,5-Pentanediamine, 2- methyl- 15520-10-2 | LC50 | 1.825 mg/l | 96 h | Pimephales promelas | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Formaldehyde, polymer with benzenamine, hydrogenated 135108-88-2 | LC50 | 96 mg/l | 96 h | Poecilia reticulata | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Salicylic acid 69-72-7 | LC50 | 1.370 mg/l | 96 h | Pimephales promelas | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| N-(3- (Trimethoxysilyl)propyl)ethyl enediamine 1760-24-3 | LC50 | 168 mg/l | 96 h | Pimephales promelas | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| 4,4'- Methylenebis(cyclohexylamin e) 1761-71-3 | LC50 | > 100 mg/l | 96 h | Leuciscus idus | DIN 38412-15 |
| 3,6- diazaoctanethylenediamine 112-24-3 | LC50 | 570 mg/l | 96 h | Poecilia reticulata | OECD Guideline 203 (Fish, Acute Toxicity Test) |

Toxicity (aquatic invertebrates):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances | Value | Value | Exposure time | Species | Method |
|--------------------------------|-------|-----------|---------------|---------------|----------------------|
| CAS-No. | type | | | | |
| Isophorone diamine | EC50 | 23 mg/l | 48 h | Daphnia magna | OECD Guideline 202 |
| 2855-13-2 | | | | | (Daphnia sp. Acute |
| | | | | | Immobilisation Test) |
| Fatty acids, C18 unsaturated, | EC50 | 7,07 mg/l | 48 h | Daphnia magna | OECD Guideline 202 |
| dimers, polymers with tall oil | | | | | (Daphnia sp. Acute |
| fatty acids and | | | | | Immobilisation Test) |
| triethylenetetramine | | | | | |
| 68082-29-1 | | | | | |
| benzyl alcohol | EC50 | 230 mg/l | 48 h | Daphnia magna | OECD Guideline 202 |
| 100-51-6 | | | | | (Daphnia sp. Acute |
| | | | | | Immobilisation Test) |
| 1,5-Pentanediamine, 2-methyl- | EC50 | 19,8 mg/l | 48 h | Daphnia magna | OECD Guideline 202 |
| 15520-10-2 | | | | | (Daphnia sp. Acute |
| | | | | | Immobilisation Test) |
| Formaldehyde, polymer with | EC50 | 15,4 mg/l | 48 h | Daphnia magna | OECD Guideline 202 |
| benzenamine, hydrogenated | | | | | (Daphnia sp. Acute |
| 135108-88-2 | | | | | Immobilisation Test) |

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| Salicylic acid 69-72-7 | EC50 | 870 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
|---|------|-----------|------|---------------|--|
| N-(3- (Trimethoxysilyl)propyl)ethyl enediamine 1760-24-3 | EC50 | 87,4 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| 4,4'- Methylenebis(cyclohexylamin e) 1761-71-3 | EC50 | 7,07 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| 3,6- diazaoctanethylenediamine 112-24-3 | EC50 | 31 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |

Chronic toxicity (aquatic invertebrates):

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances | Value | Value | Exposure time | Species | Method |
|-------------------------------|-------|-----------|---------------|---------------|---------------------------|
| CAS-No. | type | | _ | | |
| Isophorone diamine | NOEC | 3 mg/l | 21 d | Daphnia magna | OECD Guideline 202 |
| 2855-13-2 | | | | | (Daphnia sp. Chronic |
| | | | | | Immobilisation Test) |
| benzyl alcohol | NOEC | 51 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia |
| 100-51-6 | | | | | magna, Reproduction Test) |
| 1,5-Pentanediamine, 2-methyl- | NOEC | 4,16 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia |
| 15520-10-2 | | | | | magna, Reproduction Test) |
| Salicylic acid | NOEC | 10 mg/l | 21 d | Daphnia magna | OECD Guideline 202 |
| 69-72-7 | | | | | (Daphnia sp. Chronic |
| | | | | | Immobilisation Test) |
| N-(3- | NOEC | > 1 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia |
| (Trimethoxysilyl)propyl)ethyl | | | | | magna, Reproduction Test) |
| enediamine | | | | | |
| 1760-24-3 | | | | | |
| 4,4'- | NOEC | 4 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia |
| Methylenebis(cyclohexylamin | | | | | magna, Reproduction Test) |
| e) | | | | | |
| 1761-71-3 | | | | | |

Toxicity (Algae):

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The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value | Value | Exposure time | Species | Method |
|--|---------------------|------------------|---------------|---|--|
| Isophorone diamine 2855-13-2 | type EC10 | 11,2 mg/l | 72 h | Desmodesmus subspicatus | EU Method C.3 (Algal Inhibition test) |
| Isophorone diamine 2855-13-2 | EC50 | > 50 mg/l | 72 h | Desmodesmus subspicatus | EU Method C.3 (Algal Inhibition test) |
| Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1 | EC50 | 4,34 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1 | NOEC | 0,5 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| benzyl alcohol 100-51-6 | EC50 | 770 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| benzyl alcohol 100-51-6 | NOEC | 310 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| 1,5-Pentanediamine, 2-methyl- 15520-10-2 | EC50 | > 100 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| 1,5-Pentanediamine, 2-methyl- 15520-10-2 | NOEC | 10 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Formaldehyde, polymer with benzenamine, hydrogenated 135108-88-2 | EC10 | 1,2 mg/l | 72 h | Desmodesmus subspicatus | EU Method C.3 (Algal Inhibition test) |
| Formaldehyde, polymer with benzenamine, hydrogenated 135108-88-2 | EC50 | 43,94 mg/l | 72 h | Desmodesmus subspicatus | EU Method C.3 (Algal Inhibition test) |
| Salicylic acid 69-72-7 | EC50 | > 100 mg/l | 72 h | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| N-(3- (Trimethoxysilyl)propyl)ethyl enediamine 1760-24-3 | EC50 | 8,8 mg/l | 96 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| N-(3- (Trimethoxysilyl)propyl)ethyl enediamine 1760-24-3 | NOEC | 3,1 mg/l | 96 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| 4,4'- Methylenebis(cyclohexylamin e) 1761-71-3 | EC50 | > 140 - 200 mg/l | 72 h | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | DIN 38412-09 |
| 4,4'- Methylenebis(cyclohexylamin e) 1761-71-3 | EC10 | 100 mg/l | 72 h | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | DIN 38412-09 |
| 3,6- diazaoctanethylenediamine 112-24-3 | EC50 | 20 mg/l | 72 h | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |

Toxicity (microorganisms):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances | Value | Value | Exposure time | Species | Method |
|--------------------------------|-------|------------|---------------|-------------------------------|------------------------------|
| CAS-No. | type | | | | |
| Isophorone diamine | EC10 | 1.120 mg/l | 18 h | Pseudomonas putida | DIN 38412, part 8 |
| 2855-13-2 | | | | | (Pseudomonas |
| | | | | | Zellvermehrungshemm- |
| | | | | | Test) |
| Fatty acids, C18 unsaturated, | EC10 | 130 mg/l | 3 h | activated sludge of a | OECD Guideline 209 |
| dimers, polymers with tall oil | | | | predominantly domestic sewage | (Activated Sludge, |
| fatty acids and | | | | | Respiration Inhibition Test) |
| triethylenetetramine | | | | | _ |

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0.800V

| 68082-29-1 | | | | | |
|---|-------|--------------|--------|------------------------------|--|
| benzyl alcohol 100-51-6 | EC10 | 658 mg/l | 17 h | Pseudomonas putida | DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm- Test) |
| Salicylic acid 69-72-7 | EC50 | > 1.000 mg/l | 3 h | not specified | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| N-(3- (Trimethoxysilyl)propyl)ethyl enediamine 1760-24-3 | EC 50 | 435 mg/l | 3 h | | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| 4,4'- Methylenebis(cyclohexylamin e) 1761-71-3 | EC20 | > 1.000 mg/l | 3 h | activated sludge, industrial | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| 3,6- diazaoctanethylenediamine 112-24-3 | EC0 | 137 mg/l | 30 min | Pseudomonas putida | DIN 38412, part 27 (Bacterial oxygen consumption test) |

12.2. Persistence and degradability

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances | Result | Test type | Degradability | Exposure | Method |
|--|---------------------------------|-----------|---------------|----------|---|
| CAS-No. | | | | time | |
| Isophorone diamine 2855-13-2 | not readily biodegradable. | aerobic | 8 % | 28 d | EU Method C.4-A (Determination of the "Ready" BiodegradabilityDissolved Organic Carbon (DOC) Die-Away Test) |
| Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1 | not readily biodegradable. | no data | 0 - 60 % | 28 d | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test) |
| benzyl alcohol 100-51-6 | readily biodegradable | aerobic | 92 - 96 % | 14 d | OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I)) |
| 1,5-Pentanediamine, 2-methyl- 15520-10-2 | readily biodegradable | aerobic | 100 % | 21 d | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test) |
| Salicylic acid 69-72-7 | readily biodegradable | aerobic | 88,1 % | 15 d | EU Method C.4-F (Determination of the "Ready" BiodegradabilityMITI Test) |
| Salicylic acid 69-72-7 | inherently biodegradable | aerobic | 100 % | 4 d | OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA Test) |
| N-(3- (Trimethoxysilyl)propyl)ethyl enediamine 1760-24-3 | | aerobic | 50 % | | OECD Guideline 301 A (new version) (Ready Biodegradability: DOC Die Away Test) |
| 4,4'- Methylenebis(cyclohexylamin e) 1761-71-3 | not readily biodegradable. | aerobic | 0 % | 28 d | OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I)) |
| 3,6- diazaoctanethylenediamine 112-24-3 | not inherently biodegradable | aerobic | 0 % | 28 d | OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA Test) |
| 3,6- diazaoctanethylenediamine 112-24-3 | not readily biodegradable. | aerobic | 0 % | 162 d | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test) |

12.3. Bioaccumulative potential

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The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | Bioconcentratio n factor (BCF) | Exposure time | Temperature | Species | Method |
|--|-----------------------------------|---------------|-------------|-----------------|--|
| Formaldehyde, polymer with benzenamine, hydrogenated 135108-88-2 | 18 - 219 | 56 d | | Cyprinus carpio | OECD Guideline 305 C (Bioaccumulation: Test for the Degree of Bioconcentration in Fish) |
| 4,4'- Methylenebis(cyclohexylamin e) 1761-71-3 | < 60 | 60 d | 24 °C | Cyprinus carpio | OECD Guideline 305 C (Bioaccumulation: Test for the Degree of Bioconcentration in Fish) |

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12.4. Mobility in soil

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | LogPow | Temperature | Method |
|--|--------|-------------|--|
| Isophorone diamine 2855-13-2 | 0,99 | 23 °C | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |
| Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1 | 10,34 | | QSAR (Quantitative Structure Activity Relationship) |
| benzyl alcohol 100-51-6 | 1,05 | 20 °C | EU Method A.8 (Partition Coefficient) |
| 1,5-Pentanediamine, 2- methyl- 15520-10-2 | <= 1 | 25 °C | other guideline: |
| Formaldehyde, polymer with benzenamine, hydrogenated 135108-88-2 | 2,68 | 21 °C | EU Method A.8 (Partition Coefficient) |
| Salicylic acid 69-72-7 | 2,26 | 20 °C | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |
| N-(3- (Trimethoxysilyl)propyl)ethyl enediamine 1760-24-3 | -1,67 | | not specified |
| 4,4'- Methylenebis(cyclohexylamin e) 1761-71-3 | 2,2 | 23 °C | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |
| 3,6- diazaoctanethylenediamine 112-24-3 | -2,65 | | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |

12.5. Results of PBT and vPvB assessment

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | PBT / vPvB |
|--|---|
| Isophorone diamine 2855-13-2 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| benzyl alcohol 100-51-6 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| 1,5-Pentanediamine, 2-methyl- 15520-10-2 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Formaldehyde, polymer with benzenamine, hydrogenated 135108-88-2 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Salicylic acid 69-72-7 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| 4,4'-Methylenebis(cyclohexylamine) 1761-71-3 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| 3,6-diazaoctanethylenediamine 112-24-3 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |

12.6. Endocrine disrupting properties

not applicable

12.7. Other adverse effects

No data available.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

Dispose of in accordance with local and national regulations.

Do not empty into drains / surface water / ground water.

Disposal of uncleaned packages:

After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

Waste code

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

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

SECTION 14: Transport information

14.1. UN number or ID number

| ADR | 1759 |
|------|------|
| RID | 1759 |
| ADN | 1759 |
| IMDG | 1759 |
| IATA | 1759 |

14.2. UN proper shipping name

| ADR | CORROSIVE SOLID, N.O.S. (Isophoronediamine,2-Methylpentane-1,5-diamine) |
|------|--|
| RID | CORROSIVE SOLID, N.O.S. (Isophoronediamine,2-Methylpentane-1,5-diamine) |
| ADN | CORROSIVE SOLID, N.O.S. (Isophoronediamine,2-Methylpentane-1,5-diamine) |
| IMDG | CORROSIVE SOLID, N.O.S. (Isophoronediamine,2-Methylpentane-1,5-diamine) |
| IATA | Corrosive solid, n.o.s. (Isophoronediamine, 2-Methylpentane-1,5-diamine) |

14.3. Transport hazard class(es)

| ADR | 8 |
|------|---|
| RID | 8 |
| ADN | 8 |
| IMDG | 8 |
| IATA | 8 |

14.4. Packing group

| ADR | II |
|------|----|
| RID | II |
| ADN | II |
| IMDG | II |
| IATA | II |

14.5. Environmental hazards

| ADR | not applicable |
|-----|----------------|
| RID | not applicable |

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ADN not applicable IMDG not applicable IATA not applicable

14.6. Special precautions for user

ADR not applicable
Tunnelcode: (E)
RID not applicable
ADN not applicable
IMDG not applicable

14.7. Maritime transport in bulk according to IMO instruments

not applicable

not applicable

IATA

SECTION 15: Regulatory information

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

Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009):

Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):

Persistent organic pollutants (Regulation (EU) 2019/1021):

Not applicable

Not applicable

VOC content 7,23 %

(2010/75/EC)

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

National regulations/information (Germany):

WGK: WGK 3: highly hazardous to water (Ordinance on facilities for handling

substances that are hazardous to water (AwSV)) Classification according to AwSV, Annex 1 (5.2)

Storage class according to TRGS 510: 8A

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SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

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.

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.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

ED: Substance identified as having endocrine disrupting properties

EU OEL: Substance with a Union workplace exposure limit
EU EXPLD 1: Substance listed in Annex I, Reg (EC) No. 2019/1148
EU EXPLD 2 Substance listed in Annex II, Reg (EC) No. 2019/1148
SVHC: Substance of very high concern (REACH Candidate List)
PBT: Substance fulfilling persistent, bioaccumulative and toxic criteria

PBT/vPvB: Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very

bioaccumulative criteria

vPvB: Substance fulfilling very persistent and very bioaccumulative criteria

Further information:

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