

Safety Data Sheet

acc. to OSHA HCS

Date of issue: 07/01/2026

Reviewed on 07/01/2026

1 Identification

- **Product identifier**
- **Trade name:** **ROMPOX-D1 Komponente A**
- **Other means of identification**
- **Application of the substance / the mixture** Hardeners for mortar systems
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
ROMEX GmbH
Mühlgrabenstraße 21
D-53340 MECKENHEIM
DEUTSCHLAND
regulatory@romex.de
- **Information department:** Abteilung Produktsicherheit
- **Emergency telephone number:**
American Association of Poison Control Centers
poisonhelp.org
<https://www.aapcc.org/centers>
Tel.: +1-800-222-1222 (24h)
- 24 Hour Emergency Response Numbers for Transportation Issues
 - Canutec 888-226-8832 for responses within Canada
 - Chemtrec 1-800-424-9300 for responses within the US and Canada

Giftnotrufzentrale BONN, Germany
Tel.: 0049(0)228-19240

ROMEX, Abtlg. Produktsicherheit von 08:00-17:00 : +49 (0)2225 70954-10

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS07

Skin irritation 2 H315 Causes skin irritation.
Eye irritation 2A H319 Causes serious eye irritation.
Sensitization - skin 1 H317 May cause an allergic skin reaction.

- **Label elements**
- **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS07

- **Signal word** Warning

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Trade name: ROMPOX-D1 Komponente A

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· **Hazard-determining components of labeling:**

bis[4-(2,3-epoxypropoxy)phenyl]propane
Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane
oxirane, mono[(C12-14-alkyloxy)methyl] derivs

· **Hazard statements**

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

· **Precautionary statements**

Avoid breathing dust/fume/gas/mist/vapors/spray
Wash thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves / eye protection / face protection.
If on skin: Wash with plenty of water.
Specific treatment (see on this label).
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Take off contaminated clothing and wash it before reuse.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Information pertaining to particular dangers for man and environment:**

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 2

Fire = 1

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = 2

Fire = 1

Reactivity = 0

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable

· **vPvB:** Not applicable

· **Classification according to (d)(1)(ii) of § 1910.1200**

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

· **Hazards not otherwise classified**

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

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· **Dangerous components:**

1675-54-3	bis[4-(2,3-epoxypropoxy)phenyl]propane	30–60%
	Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)] bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)] bis(oxirane) and 2-(2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy)methyl oxirane	15–40%
68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] derivs	10–30%

4 First-aid measures

· **Description of first aid measures**

· **General information:** Immediately remove any clothing soiled by the product.

· **After inhalation:**

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

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

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

· **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:** If symptoms persist consult doctor.

· **Most important symptoms and effects, both acute and delayed**

No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.

· **Special hazards arising from the substance or mixture** No further relevant information available.

· **Advice for firefighters**

· **Protective equipment:** No special measures required.

· **Additional information**

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures** Not required

· **Environmental precautions:**

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

· **Methods and material for containment and cleaning up:**

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

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

· **Protective Action Criteria for Chemicals**

· **PAC-1:**

1675-54-3	bis[4-(2,3-epoxypropoxy)phenyl]propane	39 mg/m3
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PAC-2:

1675-54-3	bis[4-(2,3-epoxypropoxy)phenyl]propane	430 mg/m ³
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PAC-3:

1675-54-3	bis[4-(2,3-epoxypropoxy)phenyl]propane	2600 mg/m ³
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Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities
Storage:
Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required

Further information about storage conditions: Keep receptacle tightly sealed.

Storage class: 10

Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

Control parameters
Components with limit values that require monitoring at the workplace:

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

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

Exposure controls
Appropriate engineering controls No further data; see section 7.

Personal protective equipment:
General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:


Protective gloves

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

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Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

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

· **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Physical state**

Liquid

· **Color:**

Colorless

· **Odor:**

Characteristic

· **Odor threshold:**

Not determined

· **Melting point/Melting range:**

Undetermined

· **Boiling point/Boiling range:**

Undetermined

· **Flammability:**

Not applicable

· **Explosion limits:**

· **Lower:**

Not determined

· **Upper:**

Not determined

· **Flash point:**

>150 °C (>302 °F)

· **Decomposition temperature:**

Not determined

· **pH-value:**

$\beta = 0,1 \text{ g/cm}^3$ in H₂O

Mixture is non-soluble (in water).

· **Viscosity:**

· **Kinematic:**

Not determined

· **Dynamic at 20 °C (68 °F):**

950 mPas

· **Solubility in / Miscibility with**

· **Water:**

Fully miscible.

· **Partition coefficient (n-octanol/water):**

Not determined

· **Vapor pressure:**

Not determined

· **Vapor pressure:**

· **Density at 20 °C (68 °F):**

1.1 g/cm³ (9.1795 lbs/gal)

· **Relative density**

Not determined

· **Vapor density**

Not determined

· **Particle characteristics**

Not applicable

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- **Other information**
- **Appearance:**
- **Form:** Fluid
- **Important information on protection of health and environment, and on safety.**
- **Ignition temperature:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Solvent content:**
- **VOC content:** 0.00 %
0.0 g/l / 0.00 lb/gal
- **Solids content:** 100.0 %
- **Change in condition**
- **Evaporation rate** Not determined

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
 - **Acute toxicity:**
 - **LD/LC50 values that are relevant for classification:**
- | 68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs | | |
|--|------|-----------------------|
| Oral | LD50 | 19,200 mg/kg (rat) |
| Dermal | LD50 | >4,500 mg/kg (rabbit) |
- **Primary irritant effect:**
 - **on the skin:** Irritant to skin and mucous membranes.
 - **on the eye:** Irritating effect.
 - **Sensitization:** Sensitization possible through skin contact.
 - **Subacute to chronic toxicity:**

- **Result:**
 - **68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs**
- | | | |
|------------|-------------|------------------------|
| Dermal | DNEL-Worker | 3.9 mg/kg bw/day |
| Inhalative | DNEL-Worker | 13.8 mg/m ³ |

- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant
- **Interactive effects** No interactive effects between components are known.

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· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane

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· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **Alternative sources for toxicological information**

No non-standard sources for toxicological information where used.

12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**

68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs

EC50 (48h) 1–10 mg/l (daphnia magna)

IC50(72h) 845 mg/l ((algae))

PNEC-freshwater 0.0072 mg/l

PNEC-marine water 0.00072 mg/l

· **Persistence and degradability** No further relevant information available.

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable

· **vPvB:** Not applicable

· **Other adverse effects**

· **Additional ecological information:**

· **General notes:**

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

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

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

13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:**

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

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

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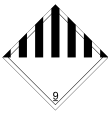
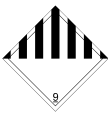
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14 Transport information

- UN-Number - DOT, IMDG, IATA	UN3082
- UN proper shipping name - DOT - IMDG, IATA	Environmentally hazardous substance, liquid, n.o.s. (bis[4-(2,3-epoxypropoxy)phenyl]propane) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis[4-(2,3-epoxypropoxy)phenyl]propane)
- Transport hazard class(es) - DOT, IMDG 	9 Miscellaneous dangerous substances and articles 9
IATA  	9 Miscellaneous dangerous substances and articles 9
- Packing group - DOT, IMDG, IATA	III
- Environmental hazards: - Special marking (IATA):	Symbol (fish and tree)
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable
- Transport/Additional information: - DOT - Quantity limitations	On passenger aircraft/rail: No limit On cargo aircraft only: No limit
- IMDG - Limited quantities (LQ) - Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
- Special precautions for user - Hazard identification number (Kemler code): - EMS Number:	Warning: Miscellaneous dangerous substances and articles 90 F-A, S-F

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· Stowage Category	A
· UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BIS[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE), 9, III

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

1675-54-3	bis[4-(2,3-epoxypropoxy)phenyl]propane	ACTIVE
68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] derivs	ACTIVE

· **Hazardous Air Pollutants**

None of the ingredients is listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS07

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- **Signal word** Warning
- **Hazard-determining components of labeling:**
bis[4-(2,3-epoxypropoxy)phenyl]propane
Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane
oxirane, mono[(C12-14-alkyloxy)methyl] derivs
- **Hazard statements**
Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
- **Precautionary statements**
Avoid breathing dust/fume/gas/mist/vapors/spray
Wash thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves / eye protection / face protection.
If on skin: Wash with plenty of water.
Specific treatment (see on this label).
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Take off contaminated clothing and wash it before reuse.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Abteilung Umweltschutz
- **Contact:**
Hr. Gajewski
Fr. Breyer
Fr. Müller
- **Date of previous version** 06/29/2026
- **Date of preparation** 07/01/2026
- **Abbreviations and acronyms:**
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit

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Skin irritation 2: Skin corrosion/irritation – Category 2
Eye irritation 2A: Serious eye damage/eye irritation – Category 2A
Sensitization - skin 1: Skin sensitisation – Category 1
· *** Data compared to the previous version altered.**

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1 Identification

- **Product identifier**
- **Trade name:** ROMPOX-D1 Komponente B
- **Other means of identification**
- **Application of the substance / the mixture** Hardeners for mortar systems
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
ROMEX GmbH
Mühlgrabenstraße 21
D-53340 MECKENHEIM
DEUTSCHLAND
regulatory@romex.de
- **Information department:** Abteilung Produktsicherheit
- **Emergency telephone number:**
American Association of Poison Control Centers
poisonhelp.org
<https://www.aapcc.org/centers>
Tel.: +1-800-222-1222 (24h)
- 24 Hour Emergency Response Numbers for Transportation Issues
 - Canutec 888-226-8832 for responses within Canada
 - Chemtrec 1-800-424-9300 for responses within the US and Canada

Giftnotrufzentrale BONN, Germany
Tel.: 0049(0)228-19240

ROMEX, Abtlg. Produktsicherheit von 08:00-17:00 : +49 (0)2225 70954-10

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS05 Corrosion

Skin corrosion 1A

H314 Causes severe skin burns and eye damage.

Eye damage 1

H318 Causes serious eye damage.



GHS07

Acute toxicity - oral 4

H302 Harmful if swallowed.

Acute toxicity - inhalation 4

H332 Harmful if inhaled.

Sensitization - skin 1

H317 May cause an allergic skin reaction.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

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Hazard pictograms



GHS05 GHS07

Signal word Danger

Hazard-determining components of labeling:

Benzyl alcohol

3-aminomethyl-3,5,5-trimethylcyclohexylamine

1,3-Cyclohexanedimethanamine

Ethoxylated alcohols

Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer

N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine

Hazard statements

Harmful if swallowed or if inhaled.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Precautionary statements

Do not breathe dusts or mists.

Wash thoroughly after handling.

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

Use only outdoors or in a well-ventilated area.

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves / eye protection / face protection.

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

If swallowed: Call a poison center/doctor if you feel unwell.

If swallowed: Rinse mouth. Do NOT induce vomiting.

Immediately call a poison center/doctor.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

If inhaled: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see on this label).

Take off contaminated clothing and wash it before reuse.

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

Wash contaminated clothing before reuse.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Information pertaining to particular dangers for man and environment:

Classification system:

NFPA ratings (scale 0 - 4)



Health = 3

Fire = 1

Reactivity = 0

HMIS-ratings (scale 0 - 4)



Health = *3

Fire = 1

Reactivity = 0

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- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable
- **Classification according to (d)(1)(ii) of § 1910.1200**
The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.
- **Hazards not otherwise classified**
There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

100-51-6	Benzyl alcohol	15–40%
260549-92-6	Decanoic acid, compds. with 1,3-benzenedimethanaminebisphenol A-bisphenol-A diglycidyl etherdiethylenetriamine, glycidyl Phenylether	10–30%
2579-20-6	1,3-Cyclohexanedimethanamine	5–13%
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	5–13%
68609-08-5	Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-,reaction products with bisphenol A diglycidyl ether homopolymer	5–13%
84133-50-6	Ethoxylated alcohols	5–10%
10563-29-8	N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine	1–7%
2413166-88-6	1,3-Bis(aminomethyl) cyclohexane reaction products	1–7%

4 First-aid measures

- **Description of first aid measures**
- **General information:**
Immediately remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:**
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**
Immediately call a doctor.
Drink copious amounts of water and provide fresh air. Immediately call a doctor.
- **Most important symptoms and effects, both acute and delayed**
No further relevant information available.

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- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray.
Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture**
In case of fire, the following can be released:
Carbon monoxide (CO)
Nitrogen oxides (NO_x)
During heating or in case of fire poisonous gases are produced.
- **Advice for firefighters**
- **Protective equipment:**
Wear fully protective suit.
Wear self-contained respiratory protective device.
Mouth respiratory protective device.
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralizing agent.
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
- **Protective Action Criteria for Chemicals**

· PAC-1:

100-51-6	Benzyl alcohol	10 ppm
25322-68-3	Polyethylene glycol	30 mg/m ³

· PAC-2:

100-51-6	Benzyl alcohol	110 ppm
25322-68-3	Polyethylene glycol	1300 mg/m ³

· PAC-3:

100-51-6	Benzyl alcohol	660 ppm
25322-68-3	Polyethylene glycol	7700 mg/m ³

· **Reference to other sections**

- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

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7 Handling and storage

- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store only in unopened original receptacles.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**
Protect from frost.
Store in dry conditions.
Store in a cool place.
Keep receptacle tightly sealed.
- **Storage class:** 8 A
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

100-51-6 Benzyl alcohol

WEEL Long-term value: 10 ppm

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Appropriate engineering controls** No further data; see section 7.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
- **Breathing equipment:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**



Protective gloves

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

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Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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

· **Material of gloves**

Butyl rubber, BR

Nitrile rubber, NBR

Recommended material thickness: $\geq 0,5\text{mm}$

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

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

· **Not suitable are gloves made of the following materials:**

Strong gloves

Leather gloves

Natural rubber, NR

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Protective work clothing

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Physical state**

Liquid

· **Color:**

Yellowish

· **Odor:**

Ammonia-like

· **Odor threshold:**

Not determined

· **Melting point/Melting range:**

Undetermined

· **Boiling point/Boiling range:**

100 °C (212 °F)

· **Flammability:**

Not applicable

· **Explosion limits:**

· **Lower:**

1.3 Vol %

· **Upper:**

13 Vol %

· **Flash point:**

>100 °C (>212 °F)

· **Auto igniting:**

436 °C (816.8 °F)

· **Decomposition temperature:**

Not determined

· **pH-value at 20 °C (68 °F):**

11.6

$\beta = 0,1\text{g/cm}^3$ in H₂O

· **Viscosity:**

· **Kinematic:**

Not determined

· **Dynamic at 20 °C (68 °F):**

950 mPas

· **Solubility in / Miscibility with**

· **Water:**

Not miscible or difficult to mix.

· **Partition coefficient (n-octanol/water):**

Not determined

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· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)
· Vapor pressure at 50 °C (122 °F):	0.7 hPa (0.5 mm Hg)
· Density at 20 °C (68 °F):	1.03 g/cm ³ (8.59535 lbs/gal)
· Relative density	Not determined
· Vapor density	Not determined
· Particle characteristics	Not applicable
· Other information	
· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Solvent content:	
· Organic solvents:	21–36 %
· Water:	10–20 %
· VOC content:	21–36 %
	248.0 g/l / 2.07 lb/gal
· Solids content:	55–70 %
· Change in condition	
· Evaporation rate	Not determined

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions**
Toxic fumes may be released if heated above the decomposition point.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Oral	NOEL maternal	50 mg/kg (rat) (OECD TG 414)
	NOEL Teratogenität / teratogenicity	250 mg/kg (rat, female) (OECD TG 414)

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral	LD50	849–≤1,488 mg/kg
Dermal	LD50	5,253–12,264 mg/kg
Inhalative	LD50	6.63–≤8.7 mg/m ³

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100-51-6 Benzyl alcohol

Oral	LD50	1,200 mg/kg (ATE) 1,620 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LD50	>4.178 mg/m ³ (rat)
	LC50/4 h	>4.178 mg/l (rat) (OECD TG 403)

2579-20-6 1,3-Cyclohexanedimethanamine

Oral	LD50	700 mg/kg (rat)
Dermal	LD50	1,700 mg/kg (rabbit)

2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Oral	LD50	1,030 mg/kg (ATE) 1,030 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat) (OECD TG 402) 1,840 mg/kg (rabbit)

10563-29-8 N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine

Oral	LD50	1,670 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)

- **Primary irritant effect:**
- **on the skin:** Strong caustic effect on skin and mucous membranes.
- **on the eye:**
Strong caustic effect.
Strong irritant with the danger of severe eye injury.
- **Sensitization:** Sensitization possible through skin contact.
- **Subacute to chronic toxicity:**

Result:
100-51-6 Benzyl alcohol

Oral	DNEL-Consumer	4 mg/kg
Dermal	DNEL-Worker	8 mg/kg bw/day
	DNEL-Consumer	4 mg/kg
Inhalative	DNEL-Worker	22 mg/m ³
	DNEL-Consumer	5.4 mg/m ³

2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Inhalative	DNEL-Worker	20.1 mg/m ³
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- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Harmful
Corrosive
Irritant
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.
- **Interactive effects** No interactive effects between components are known.
- **Carcinogenic categories**

IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

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· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **Alternative sources for toxicological information**

No non-standard sources for toxicological information where used.

12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**

100-51-6 Benzyl alcohol

LC50(96h)	10 mg/l (<i>Lepomis machrochirus</i>) 460 mg/l (<i>Pimephales promelas</i>) 645 mg/l (<i>leuciscus idus</i>)
BSB-5	1,550 mg O ₂ /l
EC50(16h)	>658 mg/l (<i>Pseudomonas putida</i>)
EC50(0,5h)	71.42 mg/l (<i>Photobacterium phosphoreum</i>) 400 mg/l (<i>Pseudomonas putida</i>)
EC50(24h)	400 mg/l (<i>daphnia magna</i>)
EC50 (96h)	640 mg/l (<i>Scenedesmus subspicatus</i>) 79 mg/l (<i>Scenedesmus quadicauda</i>)
ERrC50(72h)	770 mg/l ((algae)) (OECD 201)
IC50(72h)	770 mg/l (<i>Pseudokirchneria subcapitata</i>)
LC50/96h	460 mg/l (<i>Pimephales promelas</i>)
closed bottle test	90 % (Eliminationsgrad)
PNEC-freshwater	1–1.02 mg/l
PNEC-marine water	0.1 mg/l
PNEC-sediment (sea water)	0.527 mg/kg
PNEC-sediment (freshwater)	5.27 mg/kg
PNEC - intermittent release (freshwater)	2.3 mg/l

2579-20-6 1,3-Cyclohexanedimethanamine

LC50	130 mg/l (<i>leuciscus idus</i>) (Richtlinie 84/449/EWG, B.1)
EC50	90 mg/kg (<i>Pseudomonas putida</i>)

2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

LC50(96h)	110 mg/l (<i>leuciscus idus</i>)
LC0 (96h)	70 mg/l (<i>Brachydanio rerio</i>)
EC10(18h)	1,120 mg/l (<i>Pseudomonas putida</i>)
ERrC50(72h)	>50 mg/l (algae)
PNEC-freshwater	0.06 mg/l
PNEC-marine water	0.006 mg/l
NOEC (504h)	3 mg/l (<i>daphnia magna</i>) (Methode : OECD 202 Teil 2)
NOEC (72)	1.5 mg/l (algae) (EG 88/302)

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10563-29-8 N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine

LC50(96h)	220 mg/l (leuciscus idus)
EC50(16h)	181 mg/l (Pseudomonas putida)
EC20 (0,5h)	>1,000 mg/l (Belebtschlamm)

- **Persistence and degradability** No further relevant information available.
 - **Bioaccumulative potential** No further relevant information available.
 - **Mobility in soil** No further relevant information available.
 - **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable
 - **vPvB:** Not applicable
 - **Other adverse effects**
 - **Additional ecological information:**
 - **General notes:**
- Water hazard class 2 (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Must not reach bodies of water or drainage ditch undiluted or unneutralized.
Danger to drinking water if even small quantities leak into the ground.
Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:**
Packagings that cannot be cleansed are to be disposed of in the same manner as the product.

14 Transport information

- **UN-Number**
- **DOT, IMDG, IATA** UN2289
- **UN proper shipping name**
- **DOT** Isophoronediamine solution
- **IMDG, IATA** ISOPHORONEDIAMINE solution
- **Transport hazard class(es)**
- **DOT**
- **Class** 8 Corrosive substances



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· Label	8
· IMDG, IATA	
	
· Class	8 Corrosive substances
· Label	8
· Packing group	
· DOT, IMDG, IATA	III
· Environmental hazards:	Not applicable
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable
· Transport/Additional information:	
· DOT	
· Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Special precautions for user	Warning: Corrosive substances
· Hazard identification number (Kemler code):	80
· EMS Number:	F-A,S-B
· Stowage Category	A
· Segregation Code	SG35 Stow "separated from" SGG1-acids
· UN "Model Regulation":	UN 2289 ISOPHORONEDIAMINE SOLUTION, 8, III

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

100-51-6	Benzyl alcohol	ACTIVE
7732-18-5	water, distilled, conductivity or of similar purity	ACTIVE
2579-20-6	1,3-Cyclohexanedimethanamine	ACTIVE

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2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	ACTIVE
68609-08-5	Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-,reaction products with bisphenol A diglycidyl ether homopolymer	ACTIVE
84133-50-6	Ethoxylated alcohols	ACTIVE
10563-29-8	N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine	ACTIVE
25322-68-3	Polyethylene glycol	ACTIVE

· **Hazardous Air Pollutants**

None of the ingredients is listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS05 GHS07

· **Signal word Danger**

· **Hazard-determining components of labeling:**

Benzyl alcohol

3-aminomethyl-3,5,5-trimethylcyclohexylamine

1,3-Cyclohexanedimethanamine

Ethoxylated alcohols

Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-,reaction products with bisphenol A diglycidyl ether homopolymer

N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine

· **Hazard statements**

Harmful if swallowed or if inhaled.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

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· **Precautionary statements**

Do not breathe dusts or mists.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves / eye protection / face protection.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Call a poison center/doctor if you feel unwell.
If swallowed: Rinse mouth. Do NOT induce vomiting.
Immediately call a poison center/doctor.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
If inhaled: Remove person to fresh air and keep comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Specific treatment (see on this label).
Take off contaminated clothing and wash it before reuse.
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· **National regulations:**

· **Information about limitation of use:**

Employment restrictions concerning young persons must be observed.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing SDS:** Abteilung Umweltschutz

· **Contact:**

Hr. Gajewski

Fr. Breyer

Fr. Müller

· **Date of previous version** 02/29/2024

· **Date of preparation** 07/01/2026

· **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

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Acute toxicity - oral 4: Acute toxicity – Category 4
Skin corrosion 1A: Skin corrosion/irritation – Category 1A
Eye damage 1: Serious eye damage/eye irritation – Category 1
Sensitization - skin 1: Skin sensitisation – Category 1
· *** Data compared to the previous version altered.**

US