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

1.1 Product identifier

Trade name/designation

YE21-0000-0AL BergerBond Primer E Härter
UFI: 842J-G0MY-J00U-KMJK

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

paint and/or paint-related material

Relevant identified uses

Reserved for industrial and professional use.

Uses advised against

Do not use for injecting or spraying.

1.3 Details of the supplier of the safety data sheet

Supplier

Berger-Seidle GmbH
Maybachstr. 2
67269 Grünstadt
Germany

Telephone: +49 6359 8005-0
E-mail: info@berger-seidle.de
Website: www.berger-seidle.de

Department responsible for information

E-mail (competent person) Sicherheitsdaten@berger-seidle.de

1.4 Emergency telephone number

Emergency telephone number +49 700 24112112
24 hr. emergency phone number

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Acute Tox. 4 oral	H302 Harmful if swallowed.
Eye Dam. 1	H318 Causes serious eye damage.
Skin Corr. 1B	H314 Causes severe skin burns and eye damage.
Skin Sens. 1	H317 May cause an allergic skin reaction.
Aquatic Acute 1	H400 Very toxic to aquatic life.
Aquatic Chronic 1	H410 Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms

GHS05 GHS07 GHS09

Signal word

Danger

Hazard statements

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements

P260	Do not breathe vapours.
P273	Avoid release to the environment.
P280	Wear protective gloves and eye protection/face protection.

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.
P391	Collect spillage.

Hazard components for labelling

1-[3-(aminomethyl)phenyl]methanamine
3-aminopropyltriethoxysilane
3-aminomethyl-3,5,5-trimethylcyclohexylamine
Benzyl alcohol (Reactive thinner)
Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine
Phenol, styrenated

Supplemental hazard information

not applicable

2.3 Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

SECTION 3: Composition/information on ingredients.

3.2 Mixtures

Description

Epoxidharzprodukte, lösemittelfrei, sensibilisierend

Hazardous ingredients

CAS No. EC No. Index No.	Substance name REACH No. Classification according to Regulation (EC) No 1272/2008 [CLP]	weight-%
186321-96-0 606-078-8 -	**Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine** 01-2119983521-35-XXXX Skin Irrit. 2 H315 / Skin Sens. 1 H317 / Eye Dam. 1 H318 / Aquatic Acute 1 H400 / Aquatic Chronic 1 H410	35,0 < 50,0
100-51-6 202-859-9 603-057-00-5	**Benzyl alcohol (Reactive thinner)** 01-2119492630-38-XXXX Acute Tox. 4 H302 / Eye Irrit. 2 H319 / Acute Tox. 4 H332	15,0 < 20,0
61788-44-1 262-975-0 -	**Phenol, styrenated** 01-2119979575-18-XXXX Skin Irrit. 2 H315 / Skin Sens. 1 H317 / Aquatic Chronic 2 H411 ATE (dermal): > 2,000 mg/kg ATE (oral): > 2,000 mg/kg	8,00 < 10,0
2855-13-2 220-666-8 612-067-00-9	**3-aminomethyl-3,5,5-trimethylcyclohexylamine** 01-2119514687-32-XXXX Acute Tox. 4 H302 / Skin Corr. 1B H314 / Skin Sens. 1A H317 / Eye Dam. 1 H318 Specific concentration limit (SCL) Skin Sens. 1A H317: >= 0,001 ATE (dermal): > 2,000 mg/kg ATE (inhalative): > 5.01 mg/L (4 h)	8,00 < 10,0
1477-55-0 216-032-5 -	**1-[3-(aminomethyl)phenyl]methanamine** 01-2119480150-50-XXXX Acute Tox. 4 H302 / Skin Corr. 1B H314 / Skin Sens. 1 H317 / Eye Dam. 1 H318 / Acute Tox. 4 H332 / Aquatic Chronic 3 H412	3,00 < 5,00
90-72-2 202-013-9 603-069-00-0	**2,4,6-tris(dimethylaminomethyl)phenol** 01-2119560597-27-XXXX Acute Tox. 4 H302 / Skin Corr. 1C H314 / Eye Dam. 1 H318 ATE (dermal): > 1 mL/kg ATE (oral): 2,169 mg/kg	3,00 < 5,00
919-30-2 213-048-4 612-108-00-0	**3-aminopropyltriethoxysilane** 01-2119480479-24-XXXX Acute Tox. 4 H302 / Skin Corr. 1B H314 / Skin Sens. 1 H317 / Eye Dam. 1 H318	0,300 < 0,500

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

Following inhalation

In case of irregular breathing or respiratory arrest provide artificial respiration.Remove casualty to fresh air and keep warm and at rest.

Following skin contact

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

Following ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

Self-protection of the first aider

First aider: Pay attention to self-protection!

4.2 Most important symptoms and effects, both acute and delayed

Symptoms

In all cases of doubt, or when symptoms persist, seek medical advice.

4.3 Indication of any immediate medical attention and special treatment needed

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

alcohol resistant foam, Carbon dioxide (CO2), Powder, spray mist, (water)

Unsuitable extinguishing media

Strong water jet

5.2 Special hazards arising from the substance or mixture

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3 Advice for firefighters

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Ventilate affected area. Do not breathe vapours.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

For containment

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).

For cleaning up

Clean using cleansing agents. Do not use solvents.

6.4 Reference to other sections

Safe handling: see section 7
Personal protection equipment: refer to section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling

Avoid contact with skin, eyes and clothes. Personal protection equipment: see section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

Advices on general occupational hygiene

When using do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

Storage class LGK8A - Combustible corrosive substances

Further information on storage conditions

Keep container tightly closed. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Store in a well-ventilated and dry room at temperatures between 5 °C and 25 °C.

7.3 Specific end use(s)

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

No data available

Biological limit values

No data available

DNEL worker

CAS No.	Substance name	DNEL type	DNEL value
1477-55-0	1-[3-(aminomethyl)phenyl]methanamine	Long-term – inhalation, systemic effects	1.2 mg/m³
1477-55-0	1-[3-(aminomethyl)phenyl]methanamine	Long-term – inhalation, local effects	0.2 mg/m³
1477-55-0	1-[3-(aminomethyl)phenyl]methanamine	Long-term - dermal, systemic effects	0.33 mg/kg bw/day
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	Long-term – inhalation, systemic effects	0.53 mg/m³
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	Long-term - dermal, systemic effects	0.15 mg/kg bw/day
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	Acute - inhalation, local effects	0.073 mg/m³
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	Long-term – inhalation, local effects	0.073 mg/m³
919-30-2	3-aminopropyltriethoxysilane	Long-term – inhalation, systemic effects	14 mg/m³
919-30-2	3-aminopropyltriethoxysilane	Long-term - dermal, systemic effects	2 mg/kg bw/day
100-51-6	Benzyl alcohol (Reactive thinner)	Long-term – inhalation, systemic effects	25.8 mg/m³
100-51-6	Benzyl alcohol (Reactive thinner)	Long-term - dermal, systemic effects	8 mg/kg bw/day
186321-96-0	Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine	Long-term – inhalation, systemic effects	7.05 mg/m³

186321-96-0	Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine	Long-term - dermal, systemic effects	1 mg/kg bw/day
61788-44-1	Phenol, styrenated	Long-term – inhalation, systemic effects	7.4 mg/m³
61788-44-1	Phenol, styrenated	Long-term - dermal, systemic effects	2.1 mg/kg bw/day

DNEL Consumer

CAS No.	Substance name	DNEL type	DNEL value
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	Long-term – inhalation, systemic effects	0.13 mg/m³
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	Acute - inhalation, systemic effects	0.13 mg/kg bw/day
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	Long-term - dermal, systemic effects	0.075 mg/kg bw/ day
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	Long-term - oral, systemic effects	0.075 mg/kg bw/ day
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	Long-term - oral, systemic effects	0.3 mg/kg bw/day
919-30-2	3-aminopropyltriethoxysilane	Long-term – inhalation, systemic effects	3.5 mg/m³
919-30-2	3-aminopropyltriethoxysilane	Long-term - dermal, systemic effects	1 mg/kg bw/day
919-30-2	3-aminopropyltriethoxysilane	Long-term - oral, systemic effects	1 mg/kg bw/day
100-51-6	Benzyl alcohol (Reactive thinner)	Long-term – inhalation, systemic effects	12.9 mg/m³
100-51-6	Benzyl alcohol (Reactive thinner)	Acute - inhalation, systemic effects	32.3 mg/kg bw/day
100-51-6	Benzyl alcohol (Reactive thinner)	Long-term - dermal, systemic effects	4 mg/kg bw/day
100-51-6	Benzyl alcohol (Reactive thinner)	Long-term - oral, systemic effects	4 mg/kg bw/day
186321-96-0	Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine	Long-term – inhalation, systemic effects	1.74 mg/m³
186321-96-0	Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine	Long-term - dermal, systemic effects	0.5 mg/kg bw/day
186321-96-0	Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine	Long-term - oral, systemic effects	0.5 mg/kg bw/day
61788-44-1	Phenol, styrenated	Long-term – inhalation, systemic effects	1.31 mg/m³
61788-44-1	Phenol, styrenated	Long-term - dermal, systemic effects	0.75 mg/kg bw/day
61788-44-1	Phenol, styrenated	Long-term - oral, systemic effects	0.75 mg/kg bw/day

PNEC

CAS No.	Substance name	PNEC type	PNEC Value
1477-55-0	1-[3-(aminomethyl)phenyl]methanamine	aquatic, intermittent release	0.152 mg/L
1477-55-0	1-[3-(aminomethyl)phenyl]methanamine	aquatic, marine water	0.009 mg/L
1477-55-0	1-[3-(aminomethyl)phenyl]methanamine	sewage treatment plant	10 mg/L
1477-55-0	1-[3-(aminomethyl)phenyl]methanamine	sediment, freshwater	12.4 mg/kg sediment dw
1477-55-0	1-[3-(aminomethyl)phenyl]methanamine	sediment, marine water	1.24 mg/kg sediment dw
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	aquatic, intermittent release	0.46 mg/L
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	aquatic, marine water	0.005 mg/L
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	sewage treatment plant	0.2 mg/L
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	sediment, freshwater	0.262 mg/kg sediment dw
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	sediment, marine water	0.026 mg/kg sediment dw

2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	aquatic, intermittent release	0.23 mg/L
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	aquatic, marine water	0.006 mg/L
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	sewage treatment plant	3.18 mg/L
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	sediment, freshwater	5.784 mg/kg sediment dw
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	sediment, marine water	0.578 mg/kg sediment dw
919-30-2	3-aminopropyltriethoxysilane	PNEC soil, freshwater	0.069 mg/kg
919-30-2	3-aminopropyltriethoxysilane	PNEC sediment, marine water	0.18 mg/kg
919-30-2	3-aminopropyltriethoxysilane	PNEC sediment, freshwater	1.8 mg/kg
919-30-2	3-aminopropyltriethoxysilane	PNEC aquatic, marine water	0.05 mg/L
919-30-2	3-aminopropyltriethoxysilane	PNEC aquatic, freshwater	0.5 mg/L
919-30-2	3-aminopropyltriethoxysilane	PNEC sewage treatment plant (STP)	0.81 mg/L
100-51-6	Benzyl alcohol (Reactive thinner)	aquatic, intermittent release	2.3 mg/L
100-51-6	Benzyl alcohol (Reactive thinner)	aquatic, marine water	0.102 mg/L
100-51-6	Benzyl alcohol (Reactive thinner)	sewage treatment plant	39 mg/L
186321-96-0	Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine	aquatic, intermittent release	1.86 µg/L
186321-96-0	Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine	aquatic, marine water	0.019 µg/L
186321-96-0	Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine	sewage treatment plant	1.58 mg/L
186321-96-0	Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine	sediment, freshwater	5 µg/kg sediment dw
186321-96-0	Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine	sediment, marine water	0.5 µg/kg sediment dw
61788-44-1	Phenol, styrenated	aquatic, intermittent release	46 µg/L
61788-44-1	Phenol, styrenated	aquatic, marine water	0.4 µg/L
61788-44-1	Phenol, styrenated	sewage treatment plant	36.2 mg/L
61788-44-1	Phenol, styrenated	sediment, freshwater	0.248 mg/kg sediment dw
61788-44-1	Phenol, styrenated	sediment, marine water	24.8 µg/kg sediment dw

8.2 Exposure controls

Provide good ventilation.This can be achieved with local or room suction.

Personal protection equipment

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Hand protection

Suitable material: NBR (Nitrile rubber)
Thickness of the glove material >= 0.4 mm
Breakthrough time >= 480 min

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin.
Recommended glove articles: EN ISO 374

Skin protection

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye/face protection

Eye glasses with side protection: EN 166

Body protection

When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn. Anti-static clothing including shoes are recommended.

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	yellow
Odour	Amines
pH at 20 °C	not applicable
Melting point/freezing point	not determined
Initial boiling point and boiling range	156 °C
	Source: 2,4,6-tris(dimethylaminomethyl)phenol
Flash point	86 °C
flammability	not applicable
Lower explosion limit at 20°C	1.3 Vol-%
	Source: Benzyl alcohol (Reactive thinner)
Upper explosion limit at 20°C	13 Vol-%
	Source: Benzyl alcohol (Reactive thinner)
Vapour pressure at 20°C	0.037 mbar
Relative vapour density	not applicable
Density at 20 °C	1.03 kg/l
Water solubility at 20°C	practically insoluble
Partition coefficient: n-octanol/water	see section 12
Ignition temperature in °C	380 °C
	Source: 3-aminomethyl-3,5,5-trimethylcyclohexylamine
Decomposition temperature	not determined
Viscosity at 20 °C	485.44 mm²/s
particle characteristics	not applicable

9.2 Other information

Solid content	100.0 %

SECTION 10: Stability and reactivity

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.3 Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4 Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

10.5 Incompatible materials

No further relevant information available.

10.6 Hazardous decomposition products

Decomposition products in case of fire: see section 5.

SECTION 11: Toxicological information

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

Acute toxicity

Harmful if swallowed.

2,4,6-tris(dimethylaminomethyl)phenol
LD50: dermal (Rat): > 1 mL/kg

LD50: oral (Rat): 2,169 mg/kg

3-aminomethyl-3,5,5-trimethylcyclohexylamine
LD50: dermal (Rat): > 2,000 mg/kg

LC50: inhalative (Rat): > 5.01 mg/L (4 h)

Phenol, styrenated
LD50: dermal (Rat): > 2,000 mg/kg

LD50: oral (Rat): > 2,000 mg/kg

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Overall assessment on CMR properties

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

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

Practical experience/human evidence

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: Headache, Dizziness, fatigue, amyosthenia, Dizziness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

11.2 Information on other hazards

Endocrine disrupting properties

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

SECTION 12: Ecological information

12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

Acute (short-term) fish toxicity
3-aminomethyl-3,5,5-trimethylcyclohexylamine
LC50: (Leuciscus idus (golden orfe)): 110 mg/L (96 h)

Acute (short-term) toxicity to algae and cyanobacteria
EC50 (Desmodesmus subspicatus): > 50 mg/L (72 h)

EC10: (Desmodesmus subspicatus): 11.2 mg/L (72 h)

3-aminopropyltriethoxysilane
NOEC (Skeletonema costatum): 40 mg/L (72 h)

Chronic (long-term) toxicity to aquatic invertebrate
Phenol, styrenated
EC50 (Daphnia magna (Big water flea)): 1.5 mg/L (21 d)

Toxicity to microorganisms
3-aminomethyl-3,5,5-trimethylcyclohexylamine
EC10: 1,120 mg/L (18 h)

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine
* Partition coefficient: n-octanol/water = 3.38
Partition coefficient: n-octanol/water = 3.03 (Phenol, styrenated)

Partition coefficient: n-octanol/water >= 0.22 (2,4,6-tris(dimethylaminomethyl)phenol)

Partition coefficient: n-octanol/water = 0.15 (1-[3-(aminomethyl)phenyl]methanamine)

Partition coefficient: n-octanol/water = 3.38 (Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine)

* Partition coefficient: n-octanol/water = 1.1 (Benzyl alcohol (Reactive thinner))

Partition coefficient: n-octanol/water = 1.56 (3-aminomethyl-3,5,5-trimethylcyclohexylamine)

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

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

12.7 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product/Packaging disposal

Do not empty into drains; dispose of this material and its container in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Waste codes/waste designations according to EWC/AVV

080111* - Waste paint and varnish containing organic solvents or other dangerous substances
* Hazardous waste according to Directive 2008/98/EC (waste framework directive).

Other disposal recommendations

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

SECTION 14: Transport information

14.1 UN number or ID number

UN 2735

14.2 UN proper shipping name

Land transport (ADR/RID)

Amines, liquid, corrosive, n.o.s. (ISOPHORONE DIAMINE, M-XYLENE DIAMINE)

Sea transport (IMDG)

Amines, liquid, corrosive, n.o.s. (contains ISOPHORONE DIAMINE, M-XYLENE DIAMINE, POLYAMIDOAMINE ADDUCT)

Air transport (ICAO-TI / IATA-DGR)

Amines, liquid, corrosive, n.o.s. (contains ISOPHORONE DIAMINE, M-XYLENE DIAMINE)

14.3 Transport hazard class(es)

Land transport (ADR/RID)	8
Sea transport (IMDG)	8

Air transport (ICAO-TI / IATA-DGR)	8

14.4 Packing group

Land transport (ADR/RID)	II
Sea transport (IMDG)	II
Air transport (ICAO-TI / IATA-DGR)	II

14.5 Environmental hazards

Land transport (ADR/RID)	ENVIRONMENTALLY HAZARDOUS
Sea transport (IMDG)	Marine pollutant / Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine

14.6 Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.
Advices on safe handling: see parts 6 - 8

14.7 Maritime transport in bulk according to IMO instruments

No transport as bulk according to IBC Code.

14.8 Additional information

Land transport (ADR/RID)

Tunnel restriction code: E
Limited quantity (LQ): 1 l
Hazard identification number (Kemler No.): 80

Sea transport (IMDG)

Segregation group: IMDG-Code segregation group 18 - Alkalis
EmS-No.: F-A, S-B
Limited quantity (LQ): 1 l

Air transport (ICAO-TI / IATA-DGR)

not applicable

SECTION 15: Regulatory information

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

EU legislation

Authorisations and/or restrictions on use

Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions)

Use restriction according to REACH annex XVII, no.: 03

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive 92/85/EEC or stricter national regulations, if applicable.
Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC) or stricter national regulations, if applicable.

Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]

VOC value: 0 g/l

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]
Hazard categories / Named dangerous substances

This product is not classified according to Directive 2012/18/EU.

National regulations

Observe in addition any national regulations!

Substance/product listed in the following inventories

Inventory of Existing Chemical Substances in China (IECSC) - CN
U.S. Toxic Substances Control Act (TSCA) - US

15.2 Chemical Safety Assessment

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

SECTION 16: Other information

List of relevant hazard statements and/or precautionary statements from sections 2 to 15

H302	Harmful if swallowed.

H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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

Acute Tox. 4 oral	Calculation method.
Eye Dam. 1	Calculation method.
Skin Corr. 1B	Calculation method.
Skin Sens. 1	Calculation method.
Aquatic Acute 1	Calculation method.
Aquatic Chronic 1	Calculation method.

Key literature references and sources for data

Data arise from reference works and literature.

Abbreviations and acronyms

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL: Occupational Exposure Limit Value
BLV: Biological limit values
CAS: Chemical Abstracts Service
CLP: Classification, Labelling and Packaging
CMR: Carcinogenic, Mutagenic and Reprotoxic
DIN: German Institute for Standardization / German industrial standard
DNEL: Derived No-Effect Level
EAKV: European Waste Catalogue Directive
EC: Effective Concentration
EC: European Community
EN: European Standard
EU/EEA: European Economic Area
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI: International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG Code: International Maritime Code for Dangerous Goods
ISO: International Organization for Standardization
LC: Lethal Concentration
LD: Lethal Dose
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MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD: Organisation for Economic Cooperation and Development
PBT: persistent, bioaccumulative, toxic
PNEC: Predicted No Effect Concentration
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
UN: United Nations
VOC: Volatile Organic Compounds
vPvB: very persistent and very bioaccumulative

Indication of changes

* Data changed compared with the previous version.