

Fairpoxy Laminating hardener | Fairpoxy Top casting hardener

Version number: 1.0

Date of compilation: 2021-04-28

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

1.1 Product identifier

Trade name **Fairpoxy Laminating hardener | Fairpoxy Top casting hardener**

Registration number (REACH) not relevant (mixture)

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

Relevant identified uses Professional use
Industrial use

Uses advised against Do not use for squirting or spraying. Do not use for products which come into direct contact with the skin.

1.3 Details of the supplier of the safety data sheet

Fairpoxy
Vrijheidweg 12
1521 RR Wormerveer
Netherlands

Telephone: +31 85 0074003
e-mail: info@fairpoxy.com
Website: <https://fairpoxy.com/>

e-mail (competent person) info@fairpoxy.com

1.4 Emergency telephone number

Emergency information service +31 85 0074003
This number is only available during the following office hours: Mon-Fri 09:00 - 17:00

Poison centre		
Country	Name	Telephone
Ireland	National Poisons Information Centre (NPIC)	Consumer: 01 809 2166 (8am-10pm) Healthcare Professional: 1 809 2566 (24/7)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Section	Hazard class	Category	Hazard class and category	Hazard statement
3.1O	acute toxicity (oral)	4	Acute Tox. 4	H302
3.2	skin corrosion/irritation	1A	Skin Corr. 1A	H314
3.3	serious eye damage/eye irritation	1	Eye Dam. 1	H318
3.4S	skin sensitisation	1	Skin Sens. 1	H317
4.1C	hazardous to the aquatic environment - chronic hazard	3	Aquatic Chronic 3	H412

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis.
Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

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

- signal word Danger

- pictograms

GHS05, GHS07



- hazard statements

H302 Harmful if swallowed.
 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 statements

P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of reach of children.
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
 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.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Child-resistant fastening yes

Tactile warning of danger yes

- hazardous ingredients for labelling 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine; 5-Amino-1,3,3-trimethylcyclohexanemethylamine; 1,3-Cyclohexanedimethanamine; Salicylic acid

2.3 Other hazards

Of no significance.

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.


SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures





The product does not contain any other ingredients which are classified according to present knowledge of the supplier and contribute to the classification of the product and hence require reporting in this section.

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
benzyl alcohol	CAS No 100-51-6 EC No 202-859-9 Index No 603-057-00-5 REACH Reg. No 01-2119492630-38-xxxx	25 – < 50	Acute Tox. 4 / H302 Acute Tox. 4 / H332 Eye Irrit. 2 / H319		GHS-HC

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Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine	CAS No 38294-64-3 EC No 500-101-4 REACH Reg. No 01-2119965165-33-xxxx	25 – < 50	Skin Corr. 1B / H314 Eye Dam. 1 / H318 Skin Sens. 1 / H317 Aquatic Chronic 3 / H412		
5-Amino-1,3,3-trimethylcyclohexanemethylamine	CAS No 2855-13-2 EC No 220-666-8 Index No 612-067-00-9 REACH Reg. No 01-2119514687-32-xxxx	10 – < 25	Acute Tox. 4 / H302 Acute Tox. 4 / H312 Skin Corr. 1B / H314 Eye Dam. 1 / H318 Skin Sens. 1 / H317 Aquatic Chronic 3 / H412		GHS-HC
1,3-Cyclohexanedimethanamine	CAS No 2579-20-6 EC No 219-941-5 REACH Reg. No 01-2119543741-41-xxxx	10 – < 25	Acute Tox. 4 / H302 Acute Tox. 4 / H312 Skin Corr. 1A / H314 Eye Dam. 1 / H318 Aquatic Chronic 3 / H412		
Salicylic acid	CAS No 69-72-7 EC No 200-712-3 Index No 607-732-00-5 REACH Reg. No 01-2119486984-17-xxxx	1 – < 5	Acute Tox. 4 / H302 Eye Dam. 1 / H318 Repr. 2 / H361d		GHS-HC

Notes

GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/2008/EC, Annex VI)

Name of substance	Identifier	Specific Conc. Limits	M-Factors	ATE	Exposure route
benzyl alcohol	CAS No 100-51-6 EC No 202-859-9	-	-	1,580 mg/kg 11 mg//4h >4.178 mg//4h	oral inhalation: vapour inhalation: dust/ mist
5-Amino-1,3,3-trimethylcyclohexanemethylamine	CAS No 2855-13-2 EC No 220-666-8	-	-	1,030 mg/kg 1,100 mg/kg	oral dermal
1,3-Cyclohexanedimethanamine	CAS No 2579-20-6 EC No 219-941-5	-	-	500 mg/kg 1,100 mg/kg	oral dermal

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Name of sub-stance	Identifier	Specific Conc. Limits	M-Factors	ATE	Exposure route
Salicylic acid	CAS No 69-72-7 EC No 200-712-3	-	-	891 mg/kg	oral

Remarks

For full text of H-phrases: see SECTION 16. All the percentages given are percentages by weight unless stated otherwise.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. In case of unconsciousness place person in the recovery position. Never give anything by mouth. In all cases of doubt, or when symptoms persist, seek medical advice.

Following inhalation

Provide fresh air. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Call a POISON CENTER/doctor.

Following skin contact

Remove all contaminated clothing and footwear immediately unless stuck to skin. Wash with running water for 10 minutes or longer if substance is still on skin. Immediately call a POISON CENTER/doctor.

Following eye contact

Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Following ingestion

Rinse mouth with water (only if the person is conscious). Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. Call a POISON CENTER/doctor.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

For specialist advice physicians should contact the poison centre.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray; Water mist; Alcohol resistant foam; Dry extinguishing powder; Carbon dioxide (CO₂);
Co-ordinate firefighting measures to the fire surroundings

Unsuitable extinguishing media

Water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

During fire hazardous fumes/smoke could be produced.

5.3 Advice for firefighters

Keep containers cool with water spray. In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

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Special protective equipment for firefighters

Self-contained breathing apparatus (EN 133). Standard protective clothing for firefighters.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety. Ventilate affected area.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases. Use personal protective equipment as required.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Bunding. Covering of drains.

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Absorbent material (e.g. sand, diatomaceous earth, acid binder, universal binder, sawdust, etc.). Rinse the area where the product has been spilled with plenty of water. Transfer to a sealed, labeled container.

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- flammability hazards

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

- incompatible substances or mixtures

Acids, oxidising substances.

Control of effects

Protect against external exposure, such as

High temperatures. UV-radiation/sunlight.

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Consideration of other advice

Keep in a cool place. Store in a well-ventilated place. Keep container tightly closed. Keep in original packaging.

- packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

7.3 Specific end use(s)

There is no additional information.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

No information available.

Relevant DNELs/DMELs/PNECs and other threshold levels

Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
benzyl alcohol	100-51-6	DNEL	22 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
benzyl alcohol	100-51-6	DNEL	110 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
benzyl alcohol	100-51-6	DNEL	8 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
benzyl alcohol	100-51-6	DNEL	40 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
benzyl alcohol	100-51-6	DNEL	5.4 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
benzyl alcohol	100-51-6	DNEL	27 mg/m ³	human, inhalatory	consumer (private households)	acute - systemic effects
benzyl alcohol	100-51-6	DNEL	4 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
benzyl alcohol	100-51-6	DNEL	20 mg/kg bw/day	human, dermal	consumer (private households)	acute - systemic effects
benzyl alcohol	100-51-6	DNEL	4 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
benzyl alcohol	100-51-6	DNEL	20 mg/kg bw/day	human, oral	consumer (private households)	acute - systemic effects
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine	38294-64-3	DNEL	0.493 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

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Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine	38294-64-3	DNEL	0.14 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine	38294-64-3	DNEL	74 µg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine	38294-64-3	DNEL	50 µg/kg	human, dermal	consumer (private households)	chronic - systemic effects
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine	38294-64-3	DNEL	50 µg/kg	human, oral	consumer (private households)	chronic - systemic effects
5-Amino-1,3,3-trimethylcyclohexanemethylamine	2855-13-2	DNEL	0.073 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
5-Amino-1,3,3-trimethylcyclohexanemethylamine	2855-13-2	DNEL	0.073 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
5-Amino-1,3,3-trimethylcyclohexanemethylamine	2855-13-2	DNEL	0.526 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
1,3-Cyclohexanedimethanamine	2579-20-6	DNEL	9.47 µg/m ³	human, inhalatory	worker (industry)	chronic - local effects
1,3-Cyclohexanedimethanamine	2579-20-6	DNEL	0.1 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
1,3-Cyclohexanedimethanamine	2579-20-6	DNEL	25.2 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
Salicylic acid	69-72-7	DNEL	5 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Salicylic acid	69-72-7	DNEL	5 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects

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Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Salicylic acid	69-72-7	DNEL	2.3 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Salicylic acid	69-72-7	DNEL	4 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
Salicylic acid	69-72-7	DNEL	1 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
Salicylic acid	69-72-7	DNEL	1 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
Salicylic acid	69-72-7	DNEL	4 mg/kg bw/day	human, oral	consumer (private households)	acute - systemic effects

Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
benzyl alcohol	100-51-6	PNEC	1 mg/l	aquatic organisms	freshwater	short-term (single instance)
benzyl alcohol	100-51-6	PNEC	0.1 mg/l	aquatic organisms	marine water	short-term (single instance)
benzyl alcohol	100-51-6	PNEC	2.3 mg/l	aquatic organisms	water	intermittent release
benzyl alcohol	100-51-6	PNEC	39 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
benzyl alcohol	100-51-6	PNEC	5.27 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
benzyl alcohol	100-51-6	PNEC	0.527 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
benzyl alcohol	100-51-6	PNEC	0.456 mg/kg	terrestrial organisms	soil	short-term (single instance)
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine	38294-64-3	PNEC	0.011 mg/l	aquatic organisms	freshwater	short-term (single instance)
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine	38294-64-3	PNEC	0.001 mg/l	aquatic organisms	marine water	short-term (single instance)

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Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine	38294-64-3	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine	38294-64-3	PNEC	4,320 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine	38294-64-3	PNEC	432 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine	38294-64-3	PNEC	864 mg/kg	terrestrial organisms	soil	short-term (single instance)
5-Amino-1,3,3-trimethylcyclohexanemethylamine	2855-13-2	PNEC	0.06 mg/l	aquatic organisms	freshwater	short-term (single instance)
5-Amino-1,3,3-trimethylcyclohexanemethylamine	2855-13-2	PNEC	0.006 mg/l	aquatic organisms	marine water	short-term (single instance)
5-Amino-1,3,3-trimethylcyclohexanemethylamine	2855-13-2	PNEC	3.18 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
5-Amino-1,3,3-trimethylcyclohexanemethylamine	2855-13-2	PNEC	5.784 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
5-Amino-1,3,3-trimethylcyclohexanemethylamine	2855-13-2	PNEC	0.578 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
5-Amino-1,3,3-trimethylcyclohexanemethylamine	2855-13-2	PNEC	1.121 mg/kg	terrestrial organisms	soil	short-term (single instance)
1,3-Cyclohexanedimethanamine	2579-20-6	PNEC	0.033 mg/l	aquatic organisms	freshwater	short-term (single instance)
1,3-Cyclohexanedimethanamine	2579-20-6	PNEC	0.003 mg/l	aquatic organisms	marine water	short-term (single instance)

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Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
1,3-Cyclohexanedimethanamine	2579-20-6	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
1,3-Cyclohexanedimethanamine	2579-20-6	PNEC	0.218 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
1,3-Cyclohexanedimethanamine	2579-20-6	PNEC	0.022 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
1,3-Cyclohexanedimethanamine	2579-20-6	PNEC	0.024 mg/kg	terrestrial organisms	soil	short-term (single instance)
Salicylic acid	69-72-7	PNEC	1 mg/l	aquatic organisms	water	intermittent release
Salicylic acid	69-72-7	PNEC	0.2 mg/l	aquatic organisms	freshwater	short-term (single instance)
Salicylic acid	69-72-7	PNEC	0.02 mg/l	aquatic organisms	marine water	short-term (single instance)
Salicylic acid	69-72-7	PNEC	162 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Salicylic acid	69-72-7	PNEC	1.42 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Salicylic acid	69-72-7	PNEC	0.142 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Salicylic acid	69-72-7	PNEC	0.166 mg/kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection



Use safety goggle with side protection (EN 166).

Skin protection

Protective clothing (EN 340 & EN ISO 13688).

- hand protection



Wear suitable gloves. Check leak-tightness/impermeability prior to use. 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. Chemical protection gloves are suitable, which are tested according to EN 374. 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.

- type of material

NP: neoprene

- material thickness

Use gloves with a minimum material thickness: $\geq 0,38$ mm.

- breakthrough times of the glove material

Use gloves with a minimum breakthrough times of the glove material: >480 minutes (permeation: level 6).

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- other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling. Provide eyewash stations and safety showers at the workplace.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Full face mask/half mask/quarter mask (EN 136/140). Type: K (against ammonia and organic ammonia derivatives, colour code: Green).

Environmental exposure controls

Take appropriate precautions to avoid uncontrolled release into the environment. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	pale yellow
Odour	characteristic
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	>200 °C
Flammability	this material is combustible, but will not ignite readily
Lower and upper explosion limit	LEL: UEL: not determined
Flash point	>100 °C
Auto-ignition temperature	not determined
Decomposition temperature	no data available
pH (value)	not determined
Kinematic viscosity	not determined
Solubility(ies)	not determined

Partition coefficient n-octanol/water (log value)	this information is not available
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Vapour pressure	not determined
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Density	not determined
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Relative vapour density	this information is not available
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Particle characteristics	not relevant (liquid)
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9.2 Other information

Information with regard to physical hazard classes	hazard classes acc. to GHS (physical hazards): not relevant
Other safety characteristics	there is no additional information

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is not reactive under normal ambient conditions.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Keep away from heat. UV-radiation/sunlight.

10.5 Incompatible materials

Acids, oxidisers.

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

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

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Harmful if swallowed.

- acute toxicity estimate (ATE)

Exposure route	ATE
Oral	1,179 mg/kg

- acute toxicity of components of the mixture

Acute toxicity estimate (ATE) of components of the mixture			
Name of substance	CAS No	Exposure route	ATE
benzyl alcohol	100-51-6	oral	1,580 mg/kg
benzyl alcohol	100-51-6	inhalation: vapour	11 mg/l/4h
benzyl alcohol	100-51-6	inhalation: dust/mist	>4.178 mg/l/4h
5-Amino-1,3,3-trimethylcyclohexanemethylamine	2855-13-2	oral	1,030 mg/kg
5-Amino-1,3,3-trimethylcyclohexanemethylamine	2855-13-2	dermal	1,100 mg/kg
1,3-Cyclohexanedimethanamine	2579-20-6	oral	500 mg/kg

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Acute toxicity estimate (ATE) of components of the mixture			
Name of substance	CAS No	Exposure route	ATE
1,3-Cyclohexanedimethanamine	2579-20-6	dermal	1,100 mg/kg
Salicylic acid	69-72-7	oral	891 mg/kg

Acute toxicity of components of the mixture					
Name of substance	CAS No	Exposure route	Endpoint	Value	Species
benzyl alcohol	100-51-6	oral	LD50	1,580 mg/kg	mouse
benzyl alcohol	100-51-6	inhalation: dust/ mist	LC50	>4,178 mg/m ³ / 4h	rat
5-Amino-1,3,3-trimethylcyclohexane-methylamine	2855-13-2	oral	LD50	1,030 mg/kg	rat
5-Amino-1,3,3-trimethylcyclohexane-methylamine	2855-13-2	inhalation: dust/ mist	LC50	≥1.07 – ≤5.01 mg/4h	rat
5-Amino-1,3,3-trimethylcyclohexane-methylamine	2855-13-2	dermal	LD50	>2,000 mg/kg	rat
Salicylic acid	69-72-7	oral	LD50	891 mg/kg	rat
Salicylic acid	69-72-7	dermal	LD50	>2,000 mg/kg	rat

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.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Other information

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

11.2 Information on other hazards

There is no additional information.

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SECTION 12: Ecological information

12.1 Toxicity

Harmful to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
benzyl alcohol	100-51-6	LC50	770 mg/l	fish	24 h
benzyl alcohol	100-51-6	EC50	230 mg/l	aquatic invertebrates	48 h
benzyl alcohol	100-51-6	ErC50	770 mg/l	algae	72 h
benzyl alcohol	100-51-6	NOEC	310 mg/l	algae	72 h
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine	38294-64-3	LL50	70.7 mg/l	fish	96 h
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine	38294-64-3	EL50	11.1 mg/l	aquatic invertebrates	48 h
5-Amino-1,3,3-trimethylcyclohexanemethylamine	2855-13-2	LC50	110 mg/l	fish	96 h
5-Amino-1,3,3-trimethylcyclohexanemethylamine	2855-13-2	EC50	23 mg/l	aquatic invertebrates	48 h
5-Amino-1,3,3-trimethylcyclohexanemethylamine	2855-13-2	ErC50	>50 mg/l	algae	72 h
5-Amino-1,3,3-trimethylcyclohexanemethylamine	2855-13-2	NOEC	8.3 mg/l	aquatic invertebrates	48 h
5-Amino-1,3,3-trimethylcyclohexanemethylamine	2855-13-2	growth (EbCx) 10%	3.1 mg/l	algae	72 h
5-Amino-1,3,3-trimethylcyclohexanemethylamine	2855-13-2	growth rate (Er-Cx) 10%	11.2 mg/l	algae	72 h
1,3-Cyclohexanedimethanamine	2579-20-6	LC50	130 mg/l	fish	96 h
1,3-Cyclohexanedimethanamine	2579-20-6	EC50	33.1 mg/l	aquatic invertebrates	48 h
1,3-Cyclohexanedimethanamine	2579-20-6	ErC50	56.7 mg/l	algae	72 h
1,3-Cyclohexanedimethanamine	2579-20-6	NOEC	100 mg/l	fish	96 h
1,3-Cyclohexanedimethanamine	2579-20-6	LOEC	39.2 mg/l	algae	72 h
1,3-Cyclohexanedimethanamine	2579-20-6	growth rate (Er-Cx) 10%	25 mg/l	algae	72 h
1,3-Cyclohexanedimethanamine	2579-20-6	growth (EbCx) 10%	13.8 mg/l	algae	72 h
Salicylic acid	69-72-7	LC50	1,370 mg/l	fish	96 h
Salicylic acid	69-72-7	EC50	870 mg/l	aquatic invertebrates	48 h

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Aquatic toxicity (chronic) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
benzyl alcohol	100-51-6	LC50	770 mg/l	fish	1 h
benzyl alcohol	100-51-6	EC50	66 mg/l	aquatic invertebrates	21 d
benzyl alcohol	100-51-6	NOEC	48.9 mg/l	fish	30 d
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine	38294-64-3	EC50	≥1,000 mg/l	microorganisms	3 h
5-Amino-1,3,3-trimethylcyclohexanemethylamine	2855-13-2	EC50	27 mg/l	aquatic invertebrates	24 h
5-Amino-1,3,3-trimethylcyclohexanemethylamine	2855-13-2	LC50	572 mg/l	aquatic invertebrates	24 h
5-Amino-1,3,3-trimethylcyclohexanemethylamine	2855-13-2	NOEC	3 mg/l	aquatic invertebrates	21 d
5-Amino-1,3,3-trimethylcyclohexanemethylamine	2855-13-2	LOEC	10 mg/l	aquatic invertebrates	21 d
5-Amino-1,3,3-trimethylcyclohexanemethylamine	2855-13-2	growth (EbCx) 10%	1,120 mg/l	microorganisms	18 h
1,3-Cyclohexanedimethanamine	2579-20-6	EC50	>1,000 mg/l	microorganisms	3 h
Salicylic acid	69-72-7	LC50	1,853 mg/l	fish	24 h
Salicylic acid	69-72-7	EC50	380 mg/l	microorganisms	16 h
Salicylic acid	69-72-7	NOEC	10 mg/l	aquatic invertebrates	21 d
Salicylic acid	69-72-7	growth (EbCx) 10%	140 mg/l	microorganisms	16 h

12.2 Persistence and degradability

Degradability of components of the mixture						
Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
benzyl alcohol	100-51-6	oxygen depletion	92 – 96 %	14 d		ECHA
benzyl alcohol	100-51-6	DOC removal	95 %	21 d		ECHA
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine	38294-64-3	oxygen depletion	0 %	28 d		ECHA
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine	38294-64-3	carbon dioxide generation	0 %	28 d		ECHA
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine	38294-64-3	DOC removal	0 %	28 d		ECHA

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Degradability of components of the mixture						
Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
5-Amino-1,3,3-trimethylcyclohexanemethylamine	2855-13-2	DOC removal	8 %	28 d		ECHA
1,3-Cyclohexanedimethanamine	2579-20-6	carbon dioxide generation	29 %	28 d		ECHA
Salicylic acid	69-72-7	DOC removal	>90 %	4 d		ECHA

12.3 Bioaccumulative potential

Bioaccumulative potential of components of the mixture				
Name of substance	CAS No	BCF	Log KOW	BOD5/COD
benzyl alcohol	100-51-6		1 (20 °C)	
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine	38294-64-3	5.13	3.6 (pH value: 7, 25 °C)	
5-Amino-1,3,3-trimethylcyclohexanemethylamine	2855-13-2		0.99 (pH value: 6.34, 23 °C)	
1,3-Cyclohexanedimethanamine	2579-20-6		0.783 (pH value: >12, 21.5 °C)	
Salicylic acid	69-72-7		2.25 (25 °C)	

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

None of the ingredients are listed.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment.

Waste treatment of containers/packages

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

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SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID/ADN	UN 1760
IMDG-Code	UN 1760
ICAO-TI	UN 1760

14.2 UN proper shipping name

ADR/RID/ADN	CORROSIVE LIQUID, N.O.S.
IMDG-Code	CORROSIVE LIQUID, N.O.S.
ICAO-TI	Corrosive liquid, n.o.s.
Technical name (Hazardous ingredients)	1,3-Cyclohexanedimethanamine, 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine

14.3 Transport hazard class(es)

ADR/RID/ADN	8
IMDG-Code	8
ICAO-TI	8

14.4 Packing group

ADR/RID/ADN	I
IMDG-Code	I
ICAO-TI	I

14.5 Environmental hazards

non-environmentally hazardous acc. to the dangerous goods regulations

14.6 Special precautions for user


Provisions for dangerous goods (ADR) should be complied within the premises.

14.7 Maritime transport in bulk according to IMO instruments

No data available.

Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - additional information

Classification code	C9
Danger label(s)	8
	
Special provisions (SP)	274
Excepted quantities (EQ)	E0
Limited quantities (LQ)	0
Transport category (TC)	1
Tunnel restriction code (TRC)	E
Hazard identification No	88

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International Maritime Dangerous Goods Code (IMDG) - additional information

Marine pollutant	-
Danger label(s)	8
	
Special provisions (SP)	274
Excepted quantities (EQ)	E0
Limited quantities (LQ)	0
EmS	F-A, S-B
Stowage category	B

International Civil Aviation Organization (ICAO-IATA/DGR) - additional information

Danger label(s)	8
	
Special provisions (SP)	A3
Excepted quantities (EQ)	E0

SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

Name	Name acc. to inventory	Restriction	No
Fairpoxy Laminating hardener Fairpoxy Top casting hardener	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC	R3	3

Legend

- R3
- Shall not be used in:
 - ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ash-trays,
 - tricks and jokes,
 - games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
 - Articles not complying with paragraph 1 shall not be placed on the market.
 - Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:
 - can be used as fuel in decorative oil lamps for supply to the general public, and,
 - present an aspiration hazard and are labelled with R65 or H304,
 - Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).
 - Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:
 - lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: 'Keep lamps filled with this liquid out of the reach of children'; and, by 1 December 2010, 'Just a sip of lamp oil - or even sucking the wick of lamps - may lead to life-threatening lung damage';
 - grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter may lead to life threatening lung damage';
 - lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.
 - No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304, intended for supply to the general public.
 - Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.

List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

None of the ingredients are listed.

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Seveso Directive

2012/18/EU (Seveso III)			
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements	Notes
	not assigned		

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

None of the ingredients are listed.

Water Framework Directive (WFD)

List of pollutants (WFD)				
Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
Salicylic acid	Substances and preparations, or the breakdown products of such, which have been proved to possess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine-related functions in or via the aquatic environment		A)	

Legend

A) Indicative list of the main pollutants

Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors, amending Regulation (EC) No 1907/2006 and repealing Regulation (EU) No 98/2013

None of the ingredients are listed.

Regulation on persistent organic pollutants (POP)

None of the ingredients are listed.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

SECTION 16: Other information

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
ADR/RID/ADN	European Agreements concerning the International Carriage of Dangerous Goods by Road/Rail/Inland Waterways (ADR/RID/ADN)
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand

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Abbr.	Descriptions of used abbreviations
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LEL	Lower explosion limit (LEL)
LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality
LOEC	Lowest Observed Effect Concentration
log KOW	n-Octanol/water
NLP	No-Longer Polymer
NOEC	No Observed Effect Concentration
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration

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Abbr.	Descriptions of used abbreviations
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Repr.	Reproductive toxicity
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitisation
SVHC	Substance of Very High Concern
UEL	Upper explosion limit (UEL)
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H361d	Suspected of damaging the unborn child.
H412	Harmful to aquatic life with long lasting effects.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.