

# Safety data sheet

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BASF Safety data sheet  
Date / Revised: 05.02.2020  
Product: **55-10 1L EP Hardener**

Version: 2.0

(30705669/SDS\_GEN\_NZ/EN)

Date of print 31.03.2020

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## 1. Substance/preparation and manufacturer/supplier identification

### 55-10 1L EP Hardener

Recommended use: Sprayable

Manufacturer/supplier:

BASF Australia Limited (ABN 62 008 437 867)  
Level 12, 28 Freshwater Place Southbank  
Victoria 3006, AUSTRALIA

Contact address:

BASF New Zealand Ltd.  
Regus Auckland Airport  
Level 1, Quad 7, 6 Leonard Isitt Drive  
PO Box 407 Shortland Street, Auckland 2022  
NEW ZEALAND  
Telephone: +64 9 255-4300  
Telefax number: +64 9 255-4307

Emergency information:

National Poisons Centre: 0800 764 766  
BASF Emergency Advice Number: 0800 944 955 (24 hour advice in an emergency only)  
BASF Emergency Advice Number: +61 3 8855 6666 (If calling from outside New Zealand)

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## 2. Hazard identification

Classification of the substance and mixture:

Acute toxicity: Cat. 5 (oral)

Skin corrosion/irritation: Cat. 2

Serious eye damage/eye irritation: Cat. 1

Specific target organ toxicity — single exposure: Cat. 3 (irritating to respiratory system)

Specific target organ toxicity — single exposure: Cat. 3 (Vapours may cause drowsiness and dizziness.)

Specific target organ toxicity — repeated exposure: Cat. 2  
 Hazardous to the aquatic environment - acute: Cat. 2  
 Hazardous to the aquatic environment - chronic: Cat. 3  
 Flammable liquids: Cat. 3

Label elements and precautionary statement:

Pictogram:



Signal Word:

Danger

Hazard Statement:

H318	Causes serious eye damage.
H315	Causes skin irritation.
H303	May be harmful if swallowed.
H412	Harmful to aquatic life with long lasting effects.
H401	Toxic to aquatic life.
H226	Flammable liquid and vapour.
H373	May cause damage to organs through prolonged or repeated exposure.
H336	May cause drowsiness or dizziness.
H335	May cause respiratory irritation.

Precautionary Statements (Prevention):

P280	Wear protective gloves, protective clothing and eye protection or face protection.
P271	Use only outdoors or in a well-ventilated area.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P264	Wash contaminated body parts thoroughly after handling.
P242	Use only non-sparking tools.
P241	Use explosion-proof electrical, ventilating and lighting equipment.
P243	Take action to prevent static discharges.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P273	Avoid release to the environment.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.

Precautionary Statements (Response):

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P370 + P378	In case of fire: Use water spray for extinction.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P310	Immediately call a POISON CENTER or doctor/physician.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P303 + P361 + P353	IF ON SKIN (or hair): Remove or Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.

**Precautionary Statements (Storage):**

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
 P403 + P235 Store in a well-ventilated place. Keep cool.  
 P405 Store locked up.

**Precautionary Statements (Disposal):**

P501 Dispose of contents and container to hazardous or special waste collection point.

**Other hazards which do not result in classification:**

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria. If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

### 3. Composition/information on ingredients

**Chemical nature**

organic solvent, polyamide

**Hazardous ingredients****n-butanol**

Content (W/W):  $\geq 3\%$  -  $< 5\%$   
 CAS Number: 71-36-3

Flam. Liq.: Cat. 3  
 Acute Tox.: Cat. 5 (oral)  
 Acute Tox.: Cat. 5 (dermal)  
 Skin Corr./Irrit.: Cat. 2  
 Eye Dam./Irrit.: Cat. 1  
 STOT SE: Cat. 3 (drowsiness and dizziness)  
 STOT SE: Cat. 3 (irr. to respiratory syst.)

**isobutyl alcohol**

Content (W/W):  $\geq 7\%$  -  $< 10\%$   
 CAS Number: 78-83-1

Asp. Tox.: Cat. 2  
 Flam. Liq.: Cat. 3  
 Acute Tox.: Cat. 5 (oral)  
 Acute Tox.: Cat. 5 (dermal)  
 Skin Corr./Irrit.: Cat. 2  
 Eye Dam./Irrit.: Cat. 1  
 STOT SE: Cat. 3 (drowsiness and dizziness)  
 STOT SE: Cat. 3 (irr. to respiratory syst.)

**ethylbenzene**

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Content (W/W):  $\geq 3\%$  -  $< 5\%$   
 CAS Number: 100-41-4  
 Asp. Tox.: Cat. 1  
 Flam. Liq.: Cat. 2  
 Acute Tox.: Cat. 4 (Inhalation - vapour)  
 Acute Tox.: Cat. 5 (oral)  
 STOT RE (Auditory organ): Cat. 2  
 Aquatic Acute: Cat. 2  
 Aquatic Chronic: Cat. 3

## 1-methoxypropan-2-ol

Content (W/W):  $\geq 10\%$  -  $< 12.5\%$   
 CAS Number: 107-98-2  
 Flam. Liq.: Cat. 3  
 Acute Tox.: Cat. 5 (oral)  
 STOT SE: Cat. 3 (drowsiness and dizziness)

## 2,2'-iminodi(ethylamine)

Content (W/W):  $\geq 0.2\%$  -  $< 0.3\%$   
 CAS Number: 111-40-0  
 Acute Tox.: Cat. 4 (oral)  
 Acute Tox.: Cat. 2 (Inhalation - mist)  
 Acute Tox.: Cat. 4 (dermal)  
 Skin Corr./Irrit.: Cat. 1B  
 Eye Dam./Irrit.: Cat. 1  
 Skin Sens.: Cat. 1B  
 STOT SE: Cat. 3 (irr. to respiratory syst.)  
 Aquatic Acute: Cat. 3

## xylene

Content (W/W):  $\geq 20\%$  -  $< 25\%$   
 CAS Number: 1330-20-7  
 Asp. Tox.: Cat. 1  
 Flam. Liq.: Cat. 3  
 Acute Tox.: Cat. 5 (Inhalation - vapour)  
 Acute Tox.: Cat. 5 (oral)  
 Skin Corr./Irrit.: Cat. 2  
 Eye Dam./Irrit.: Cat. 2B  
 STOT SE: Cat. 3 (irr. to respiratory syst.)  
 STOT RE (Central nervous system, Liver, Kidney): Cat. 2  
 Aquatic Acute: Cat. 2  
 Aquatic Chronic: Cat. 3

## 1-Propanamine, 3-(trimethoxysilyl)-

Content (W/W):  $\geq 2.5\%$  -  $< 3\%$   
 CAS Number: 13822-56-5  
 Flam. Liq.: Cat. 4  
 Acute Tox.: Cat. 5 (oral)  
 Skin Corr./Irrit.: Cat. 2  
 Eye Dam./Irrit.: Cat. 1

Amines, polyethylene poly-, triethylenetetramine fraction

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Content (W/W):  $\geq 0.1\%$  -  $< 0.2\%$  Acute Tox.: Cat. 4 (oral)  
CAS Number: 90640-67-8 Acute Tox.: Cat. 4 (dermal)  
Skin Sens.: Cat. 1  
Aquatic Chronic: Cat. 3  
Skin Corr./Irrit.: Cat. 1B

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## 4. First-Aid Measures

### General advice:

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

### If inhaled:

Remove affected person from danger area. Keep warm, calm and covered up. If breathing is irregular or stopped, administer artificial respiration. Seek medical assistance. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position).

### On skin contact:

Remove contaminated clothing. Wash skin with soap and water, rinse abundantly. Do NOT use solvents or thinners.

### On contact with eyes:

Contact lenses should be removed. Hold eyelids open and flush with copious amounts of clean, fresh water or a special eyewash solution. Seek medical assistance.

### On ingestion:

If accidentally swallowed obtain immediate medical attention. Keep at rest. Do not induce vomiting.

### Note to physician:

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Treatment: Symptomatic treatment (decontamination, vital functions).

Antidote: No known specific antidote.

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## 5. Fire-Fighting Measures

### Suitable extinguishing media:

carbon dioxide, alcohol-resistant foam, dry powder, water spray

### Unsuitable extinguishing media for safety reasons:

water jet

### Specific hazards:

Fire will produce dense black smoke. Inhalation of dangerous decomposition products may cause serious damage to health.

### Special protective equipment:

Appropriate breathing apparatus may be required.

Further information:

Cool closed containers in the vicinity of the source of fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

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## 6. Accidental Release Measures

Personal precautions:

Use personal protective clothing. Avoid breathing vapours. Ensure adequate ventilation. Advice on product handling can be found in sections 7 and 8 of this safety data sheet. Keep away from sources of ignition.

Environmental precautions:

Do not allow to enter drains or waterways. If the product enters drains or sewers, the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the Environment Agency. Do not discharge into the subsoil/soil.

Methods for cleaning up or taking up:

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal according with the waste regulations (see section 13). Clean preferably with a detergent; avoid the use of solvents. Ensure adequate ventilation.

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## 7. Handling and Storage

### Handling

Avoid contact with skin and eyes. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Avoid inhalation of dust from sanding. Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws. Product may charge electrostatically: always use earthing leads when transferring from one container to another and earth containers. It is recommended that operators should wear antistatic clothing and footwear. When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits. Solvent vapours are heavier than air and spread along floors. Vapour forms explosive mixtures with air. Keep container dry and tightly closed in a cool well-ventilated place. Avoid inhalation of vapour and spray mist. Avoid all sources of ignition: heat, sparks, open flame. Do not use any sparking tools.

### Storage

Keep away from oxidising agents, from strongly alkaline and strongly acid materials.

Suitable materials for containers: tinned carbon steel (Tinplate), Carbon steel (Iron), Stainless steel 1.4301 (V2), Polypropylene (PP), Polyethylenetherephtalate (PET), Low density polyethylene (LDPE), High density polyethylene (HDPE)

Further information on storage conditions: Electrical equipment must be explosion-proof to the appropriate standard. Floors must be of conducting type and impermeable to the materials being stored. Keep container tightly closed. Never use pressure to empty; container is not a pressure

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vessel. Close containers carefully once opened and store upright in order to prevent any leakage. No smoking. Prevent unauthorized access. Detailed information can be gained from the relevant technical data sheets. Always keep in containers of same material as the original one. Observe label precautions. Store in a dry, well ventilated place. Protect from direct sunlight. Keep away from sources of ignition. Keep away from heat.

Storage stability:

Storage temperature: 5.00 - 35.00 °C

## 8. Exposure controls and personal protection

### Components with occupational exposure limits

n-butanol, 71-36-3;

TWA value 20 ppm (ACGIHTLV)  
Skin Designation (OEL (NZ))  
Skin absorption can be significant.  
CLV 150 mg/m<sup>3</sup> ; 50 ppm (OEL (NZ))

isobutyl alcohol, 78-83-1;

TWA value 50 ppm (ACGIHTLV)  
TWA value 152 mg/m<sup>3</sup> ; 50 ppm (OEL (NZ))

ethylbenzene, 100-41-4;

TWA value 20 ppm (ACGIHTLV)  
STEL value 543 mg/m<sup>3</sup> ; 125 ppm (OEL (NZ))  
TWA value 434 mg/m<sup>3</sup> ; 100 ppm (OEL (NZ))

1-methoxypropan-2-ol, 107-98-2;

TWA value 50 ppm (ACGIHTLV)  
STEL value 100 ppm (ACGIHTLV)  
TWA value 369 mg/m<sup>3</sup> ; 100 ppm (OEL (NZ))  
STEL value 553 mg/m<sup>3</sup> ; 150 ppm (OEL (NZ))

2,2'-iminodi(ethylamine), 111-40-0;

TWA value 1 ppm (ACGIHTLV)  
Skin Designation (ACGIHTLV)  
The substance can be absorbed through the skin.  
TWA value 4.2 mg/m<sup>3</sup> ; 1 ppm (OEL (NZ))  
Skin Designation (OEL (NZ))  
Skin absorption can be significant.

xylene, 1330-20-7;

TWA value 100 ppm (ACGIHTLV)  
STEL value 150 ppm (ACGIHTLV)  
TWA value 217 mg/m<sup>3</sup> ; 50 ppm (OEL (NZ))

### Personal protective equipment

Respiratory protection:

Respiratory protection not required. When workers are facing concentrations above the occupational exposure limits they must use appropriate certified respirators. Dry sanding, flame cutting and/or

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welding of the dry paint film will give rise to dust and/or hazardous fumes. Wet (sanding/ flattening) should be used wherever possible. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used. Use A1P2 breathing-protection half mask in case of contact with aerosols.

**Hand protection:**

Further information on penetration time is available from the manufacturer of the glove. Data are based on information from the glove manufacturer, the raw material manufacturer or according to specifics of the product components. The protection glove should be tested for its specific suitability (e.g. mechanical strength, product compatibility, anti-static properties). Follow manufacturer's advice on use, storage, maintenance and replacement of gloves. The gloves should be replaced immediately in case of damage or signs of wear. It is recommended to use preventative skin protection (skin cream). Wear protective gloves. Any chemical protection glove certified according to EN 374 is suitable: e.g. nitrile gloves - material thickness: 1,25 mm

**Eye protection:**

Tightly fitting safety goggles (splash goggles) (e.g. EN 166), Required when there is a risk of eye contact.

**Body protection:**

chemical-resistant disposable coveralls, Personnel should wear antistatic, flame-retardant clothing made of natural fibres and/or heat-resistant synthetic fibres.

**General safety and hygiene measures:**

Do not breathe vapour/spray. Eye wash fountains and safety showers must be easily accessible. The country-specific occupational exposure limits applicable to the substances specified in section 3 must be taken into account. Ensure adequate ventilation. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. This can be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn. Remove contaminated clothing immediately and dispose of safely. Hands and/or face should be washed before breaks and at the end of the shift. Keep separated from food stuffs and feed stocks.

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## 9. Physical and Chemical Properties

Form:	liquid
Colour:	colourless
Odour:	specific
pH value:	not applicable
Melting point:	not determined
onset of boiling:	not determined
Flash point:	> 23 °C



Flammability (solid/gas): Flammable liquid and vapour.  
Lower explosion limit: 36 g/m<sup>3</sup>  
Ignition temperature: > 200.00 °C  
Self heating ability: It is not a substance capable of spontaneous heating.

Explosion hazard: not explosive  
Fire promoting properties: not fire-propagating

Vapour pressure:  
(20 °C)  
not determined  
  
(50 °C)  
not determined

Density: 0.931 g/cm<sup>3</sup>  
(20 °C)

Miscibility with water:  
immiscible

Viscosity, kinematic: 84.6 mm<sup>2</sup>/s  
(20 °C)  
  
(40 °C)  
not determined

Flow time: > 63 s (DIN EN ISO 2431; 4 mm)

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## 10. Stability and Reactivity

Conditions to avoid:  
Avoid all sources of ignition: heat, sparks, open flame.

Substances to avoid:  
Keep away from highly acidic or alkaline substances as well as oxidants in order to prevent exothermal reactions.

Hazardous reactions:  
No hazardous reactions when stored and handled according to instructions.

When exposed to high temperatures hazardous decomposition products such as carbon monoxide, carbon dioxide, smoke, oxides of nitrogen may be produced., No hazardous decomposition products if stored and handled as prescribed/indicated.

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## 11. Toxicological Information

### Acute toxicity

Assessment of acute toxicity:  
Of low toxicity after single ingestion.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Repeated and prolonged exposure to solvents at levels significantly above OELs may lead to the development of long-lasting central nervous system disorders such as chronic toxic encephalopathy, signs of toxicity include changes in behaviour and memory. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

Information on: ethylbenzene  
Experimental/calculated data:  
LD50 rat (oral): 3,500 mg/kg  
Literature data.

Information on: 1-methoxypropan-2-ol  
Experimental/calculated data:  
LD50 rat (oral): 4,016 mg/kg (similar to OECD guideline 401)

Information on: 2,2'-iminodi(ethylamine)  
Experimental/calculated data:  
LD50 rat (oral): 1,553 mg/kg (OECD Guideline 401)

Information on: xylene  
Experimental/calculated data:  
LD50 rat (oral): 3,523 mg/kg (similar to OECD guideline 401)  
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Information on: n-butanol  
Experimental/calculated data:  
LD50 rabbit (dermal): 3,430 mg/kg (OECD Guideline 402)

Information on: ethylbenzene  
Experimental/calculated data:  
LD50 rabbit (dermal): 15,354 mg/kg  
Literature data.

Information on: 2,2'-iminodi(ethylamine)  
Experimental/calculated data:  
LD50 rabbit (dermal): 1,045 mg/kg  
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## Irritation

Assessment of irritating effects:  
Skin contact causes irritation. May cause severe damage to the eyes.

## Respiratory/Skin sensitization

Assessment of sensitization:  
Based on available Data, the classification criteria are not met.

### **Germ cell mutagenicity**

Assessment of mutagenicity:  
Based on available Data, the classification criteria are not met.

### **Carcinogenicity**

Assessment of carcinogenicity:  
Based on available Data, the classification criteria are not met.

### **Reproductive toxicity**

Assessment of reproduction toxicity:  
Based on available Data, the classification criteria are not met.

### **Developmental toxicity**

Assessment of teratogenicity:  
Based on available Data, the classification criteria are not met.

### **Specific target organ toxicity (single exposure):**

Assessment of STOT single:  
Causes temporary irritation of the respiratory tract. Possible narcotic effects (drowsiness or dizziness).

### **Repeated dose toxicity and Specific target organ toxicity (repeated exposure)**

Assessment of repeated dose toxicity:  
Repeated exposure may affect certain organs.

### **Aspiration hazard**

No aspiration hazard expected.

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## **12. Ecological Information**

### **Ecotoxicity**

Assessment of aquatic toxicity:  
Harmful to aquatic life with long lasting effects. Toxic to aquatic life. There are no test results available for this product. Do not allow to enter drains or waterways.

### **Mobility**

Assessment transport between environmental compartments:  
No data available.

### **Persistence and degradability**

Assessment biodegradation and elimination (H<sub>2</sub>O):

Biological degradability of hazardous substances mentioned in section 3:

Information on: ethylbenzene

Elimination information:

70 - 80 % TIC of the ThIC (28 d) (ISO 14593) (aerobic, activated sludge) Readily biodegradable (according to OECD criteria).

Information on: 2,2'-iminodi(ethylamine)

Elimination information:

87 % BOD of the ThOD (21 d) (OECD 301D; EEC 92/69, C.4-E) (aerobic, activated sludge, domestic, non-adapted)

Information on: xylene

Elimination information:

87.8 % BOD of the ThOD (28 d) (OECD Guideline 301 F) (aerobic, activated sludge, domestic, non-adapted)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### **Bioaccumulation potential**

Bioaccumulation potential:

No data available.

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## **13. Disposal Considerations**

Observe national and local legal requirements.

Contaminated packaging:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

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## **14. Transport Information**

### **Domestic transport:**

Packing group: III  
ID number: UN 1263  
Transport hazard class(es): 3  
Proper shipping name: PAINT

### **Further information**

Hazchem Code:3Y

IERG Number:14

### **Sea transport**

IMDG

Packing group: III  
ID number: UN 1263

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Transport hazard class(es): 3  
Marine pollutant: NO  
Proper shipping name: PAINT

**Air transport**

IATA/ICAO

Packing group: III  
ID number: UN 1263  
Transport hazard class(es): 3  
Proper shipping name: PAINT

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## 15. Regulatory Information

### Other regulations

HSNO Approval Number HSR002662  
Surface Coatings and Colourants (Flammable) Group Standard 2017

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

Tracking requirements do not apply to this substance.

A certified handler is not required for the handling of this substance.

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## 16. Other Information

For multi-pack systems observe material safety data sheets of all components. Restricted to professional users.

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Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.