

Safety data sheet

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BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 11.04.2023 Version: 2.0
Date previous version: 12.10.2021 Previous version: 1.0

Date / First version: 12.10.2021 Product: **Dispex® CX 4230**

(ID no. 30535654/SDS_GEN_DE/EN)

Date of print 22.10.2025

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

1.1. Product identifier

Dispex® CX 4230

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

Relevant identified uses: dispersing agent

1.3. Details of the supplier of the safety data sheet

Company:
BASF SE
67056 Ludwigshafen
GERMANY
Global Business Unit Resins and Additives

Telephone: +49 621 60-0

E-mail address: ed-psr@basf.com

1.4. Emergency telephone number

International emergency number: Telephone: +49 180 2273-112

to Regulation (EC) No 1907/2006.

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SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

For the classification of the mixture the following methods have been applied: extrapolation on the concentration levels of the hazardous substances, on basis of test results and after evaluation of experts. The methodologies used are mentioned at the respective test results.

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

No need for classification according to GHS criteria for this product.

2.2. Label elements

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

The product does not require a hazard warning label in accordance with GHS criteria.

2.3. Other hazards

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

No specific dangers known, if the regulations/notes for storage and handling are considered. Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. The product does not contain a substance above legal limits fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Chemical nature

Ammonium salt of modified styrene acrylic polymers, in water

Regulatory relevant ingredients

propan-2-ol

to Regulation (EC) No 1907/2006.

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Content (W/W): >= 1 % - < 5 % CAS Number: 67-63-0

Flam. Liq. 2 Eye Dam./Irrit. 2

EC-Number: 200-661-7

STOT SE 3 (drowsiness and dizziness)

REACH registration number: 01-

H225, H319, H336

2119457558-25

INDEX-Number: 603-117-00-0

methacrylic acid

Content (W/W): >= 0 % - < 0.8 %Acute Tox. 4 (oral)

CAS Number: 79-41-4 Acute Tox. 4 (Inhalation - mist)

Acute Tox. 3 (dermal) EC-Number: 201-204-4 REACH registration number: 01-Skin Corr./Irrit. 1A

2119463884-26

Eye Dam./Irrit. 1

INDEX-Number: 607-088-00-5 STOT SE 3 (irr. to respiratory syst.) H311, H335, H314, H302 + H332

Specific concentration limit:

STOT SE 3, irr. to respiratory syst.: >= 1 %

ammonia%

Content (W/W): >= 0.3 % - < 1 %Skin Corr./Irrit. 1B CAS Number: 1336-21-6 Eve Dam./Irrit. 1

EC-Number: 215-647-6 STOT SE 3 (irr. to respiratory syst.)

REACH registration number: 01-2119488876-14

Aquatic Acute 1 Aquatic Chronic 2

INDEX-Number: 007-001-01-2

H335, H314, H411, H400

Specific concentration limit:

STOT SE 3, irr. to respiratory syst.: >= 5 %

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

SECTION 4: First-Aid Measures

4.1. Description of first aid measures

Remove contaminated clothing.

If inhaled:

If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

On skin contact:

Wash thoroughly with soap and water

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

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On ingestion:

Rinse mouth and then drink 200-300 ml of water.

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

Symptoms: (Further) symptoms and / or effects are not known so far

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

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media: water spray, dry powder, foam

Unsuitable extinguishing media for safety reasons: water jet

5.2. Special hazards arising from the substance or mixture

Endangering substances: harmful vapours

Advice: Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

5.3. Advice for fire-fighters

Special protective equipment:

Wear a self-contained breathing apparatus.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Breathing protection required.

6.2. Environmental precautions

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

to Regulation (EC) No 1907/2006.

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6.3. Methods and material for containment and cleaning up

For large amounts: Pump off product.

For residues: Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.

6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

No special measures necessary provided product is used correctly.

Protection against fire and explosion:

Take precautionary measures against static discharges.

7.2. Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

Storage class according to TRGS 510 (originally VCI, Germany): (12) Non-combustible liquids

7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Components with occupational exposure limits

The surveillance of the workplace by exposure measurements may be necessary, in order to prove the efficiency of safety measures, for example ventilation or the need of respiratory protection. Since this requires a specific competency, only accredited laboratories should be contracted. Regarding suitable methods to assess inhalation exposure, the European Standards EN 482, 689 and 14042 are to be considered. In addition, the TRGS 402 has to be observed in Germany.

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67-63-0: propan-2-ol

OEL 500 mg/m3; 200 ppm (TRGS 900 (DE))

Ceiling limit value/factor: 2

If the occupational exposure limit value (AGW) and the biological limit value (BGW) are complied with, there should be no risk of damage for the unborn child (see TRGS 900, Number 2.7)

Short Term Exposure Classification: (TRGS 900 (DE))

Category II: Substances with a resorptive effect

79-41-4: methacrylic acid

Short Term Exposure Classification: (TRGS 900 (DE))

Category I: Substances for which the localized effect has an assigned exposure

limit or for substances with a sensitizing effect in respiratory passages

OEL 180 mg/m3; 50 ppm (TRGS 900 (DE))

Ceiling limit value/factor: 2

If the occupational exposure limit value (AGW) and the biological limit value (BGW) are complied with, there should be no risk of damage for the unborn child (see TRGS 900, Number 2.7)

1336-21-6: ammonia%

STEL value 36 mg/m3; 50 ppm (OEL (EU))

indicative

TWA value 14 mg/m3; 20 ppm (OEL (EU))

indicative

OEL 14 mg/m3; 20 ppm (TRGS 900 (DE))

Ceiling limit value/factor: 2

If the occupational exposure limit value (AGW) and the biological limit value (BGW) are complied with, there should be no risk of damage for the unborn child (see TRGS 900, Number 2.7)

Short Term Exposure Classification: (TRGS 900 (DE))

Category I: Substances for which the localized effect has an assigned exposure

limit or for substances with a sensitizing effect in respiratory passages

Components with PNEC

67-63-0: propan-2-ol

freshwater: 140,9 mg/l marine water: 140,9 mg/l intermittent release: 140,9 mg/l

STP: 2251 mg/l

sediment (freshwater): 552 mg/kg sediment (marine water): 552 mg/kg

soil: 28 mg/kg

oral (secondary poisoning): 160 mg/kg

79-41-4: methacrylic acid

freshwater: 0,82 mg/l marine water: 0,82 mg/l intermittent release: 0,82 mg/l sediment (freshwater):

Exposure of sediment is not expected

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sediment (marine water):

Exposure of sediment is not expected

soil: 1,2 mg/kg STP: 10 mg/l

1336-21-6: ammonia%

freshwater: 0,165 mg/l marine water: 0,0165 mg/l intermittent release: 0,28 mg/l

STP: 8,58 mg/l

sediment (freshwater): 0,0165 mg/kg

soil: 32,3 mg/kg

Components with DNEL

67-63-0: propan-2-ol

worker: Long-term exposure- systemic effects, Inhalation: 500 mg/m3 worker: Long-term exposure- systemic effects, dermal: 888 mg/kg consumer: Long-term exposure- systemic effects, Inhalation: 89 mg/m3 consumer: Long-term exposure- systemic effects, dermal: 319 mg/kg consumer: Long-term exposure- systemic effects, oral: 26 mg/kg

79-41-4: methacrylic acid

worker: Long-term exposure- systemic effects, dermal: 4,25 mg/kg worker: Long-term exposure- systemic effects, Inhalation: 29,6 mg/m3 worker: Long-term exposure - local effects, Inhalation: 88 mg/m3 consumer: Long-term exposure- systemic effects, dermal: 2,55 mg/kg consumer: Long-term exposure- systemic effects, Inhalation: 6,3 mg/m3 consumer: Long-term exposure - local effects, Inhalation: 6,55 mg/m3

1336-21-6: ammonia%

worker: Short-term exposure - local effects, Inhalation: 28 mg/m3 worker: Long-term exposure - local effects, Inhalation: 14 mg/m3

8.2. Exposure controls

Personal protective equipment

Respiratory protection:

Suitable respiratory protection for higher concentrations or long-term effect: Gas filter for gases/vapours of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A)

Hand protection:

Chemical resistant protective gloves (EN ISO 374-1)

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): nitrile rubber (NBR) - 0.4 mm coating thickness

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g.

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temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing. Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

General safety and hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

State of matter: liquid Form: liquid

Colour: yellow cloudy Odour: ammonia-like

Odour threshold:

Not determined due to potential

health hazard by inhalation.

Freezing point: approx. 0 - 5 °C

Information applies to the solvent.

Boiling point: approx. 100 °C

Information applies to the solvent.

Flammability: not flammable

Lower explosion limit:

For liquids not relevant for classification and labelling., The lower explosion point may be 5 - 15

°C below the flash point.

Upper explosion limit:

For liquids not relevant for classification and labelling.

Flash point: > 93,4 °C (ASTM D93)

Auto-ignition temperature:

Based on the water content the

product does not ignite.

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

pH value:

7,5 - 8,0 (as such)

Viscosity, kinematic: approx. 45 - 230 mm2/s (calculated (from dynamic

viscosity))

(23 °C) Viscosity, dynamic: 50,00 - 250,00 mPa*s

(23 °C)

Thixotropy: not thixotropic

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Solubility in water: dispersible

(20°C)

Partitioning coefficient n-octanol/water (log Kow):

not applicable for mixtures

Vapour pressure:

not determined

Relative density: 1,0904 - 1,1144

(20 °C)

Density: 1,0904 - 1,1144 g/cm3

(20 °C)

Relative vapour density (air):

not determined

9.2. Other information

Information with regard to physical hazard classes

Explosives

Explosion hazard: not explosive

Oxidizing properties

Fire promoting properties: not fire-propagating

Pyrophoric properties

Self-ignition temperature: Test type: Spontaneous self-

ignition at room-temperature.

not self-igniting

Self-heating substances and mixtures

Self heating ability: Study scientifically not justified.

Other safety characteristics

Hygroscopy: Non-hygroscopic

SAPT-Temperature:

Product does not fulfil criteria for polymerizing substances according to

transport regulations.

Evaporation rate:

not determined

SECTION 10: Stability and Reactivity

10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

10.2. Chemical stability

The product is chemically stable.

to Regulation (EC) No 1907/2006.

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10.3. Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.

10.4. Conditions to avoid

See SDS section 7 - Handling and storage.

10.5. Incompatible materials

Substances to avoid: strong oxidizing agents

10.6. Hazardous decomposition products

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11: Toxicological Information

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

Acute toxicity

Experimental/calculated data:

LD50 rat (oral): > 5.000 mg/kg

The product has not been tested. The statement has been derived from the properties of the individual components.

LC50 rat (by inhalation): 4 h

not determined

LD50 rat (dermal): > 5.000 mg/kg

The product has not been tested. The statement has been derived from the properties of the individual components.

Irritation

Experimental/calculated data:

Skin corrosion/irritation

rabbit: non-irritant

The product has not been tested. The statement has been derived from the properties of the individual components.

Serious eve damage/irritation

rabbit: non-irritant

The product has not been tested. The statement has been derived from the properties of the individual components.

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Respiratory/Skin sensitization

Experimental/calculated data:

other other: Non-sensitizing.

The product has not been tested. The statement has been derived from the properties of the individual components.

Germ cell mutagenicity

Assessment of mutagenicity:

Based on the ingredients, there is no suspicion of a mutagenic effect.

Carcinogenicity

Assessment of carcinogenicity:

No data available.

Reproductive toxicity

Assessment of reproduction toxicity:

Based on the ingredients, there is no suspicion of a toxic effect on reproduction.

Developmental toxicity

Assessment of teratogenicity:

Based on the ingredients, there is no suspicion of a teratogenic effect.

Specific target organ toxicity (single exposure)

Remarks: No data available.

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

Assessment of repeated dose toxicity:

The information available on the product provides no indication of toxicity on target organs after repeated exposure.

Aspiration hazard

No aspiration hazard expected.

Interactive effects

No data available.

11.2. Information on other hazards

Endocrine disrupting properties

Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

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SECTION 12: Ecological Information

12.1. Toxicity

Toxicity to fish:

LC50 (96 h) > 100 mg/l, Fish

The product has not been tested. The statement has been derived from the properties of the individual components.

Aquatic invertebrates: LC50 (48 h), daphnia (other) not determined

Aquatic plants: EC50 (72 h), algae (other)

Microorganisms/Effect on activated sludge: EC50 (0,5 h), bacteria (other)

not determined

not determined

Chronic toxicity to fish: No data available.

Chronic toxicity to aquatic invertebrates:

No data available.

Assessment of terrestrial toxicity:

No data available concerning terrestrial toxicity.

12.2. Persistence and degradability

Assessment biodegradation and elimination (H2O): Not readily biodegradable (by OECD criteria).

Elimination information:

20 - 30 % (28 d) (OECD 301B; ISO 9439; 92/69/EEC, C.4-C) (aerobic)

12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

The product has not been tested.

to Regulation (EC) No 1907/2006.

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12.4. Mobility in soil

Assessment transport between environmental compartments: Volatility: No data available.

12.5. Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

12.6. Endocrine disrupting properties

Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

The substance is not listed in Annex I of Regulation (EC) 2037/2000 on substances that deplete the ozone layer.

12.8. Additional information

Add. remarks environm. fate & pathway:

Treatment in biological waste water treatment plants has to be performed according to local and administrative regulations.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Must be disposed of or incinerated in accordance with local regulations.

Contaminated packaging:

Uncontaminated packaging can be re-used.

Packs that cannot be cleaned should be disposed of in the same manner as the contents.

SECTION 14: Transport Information

to Regulation (EC) No 1907/2006.

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Land transport

ADR

Not classified as a dangerous good under transport regulations

UN number or ID number:
UN proper shipping name:
Transport hazard class(es):
Packing group:
Not applicable
Not applicable
Not applicable
Not applicable
Not applicable

None known

Special precautions for

user

RID

Not classified as a dangerous good under transport regulations

UN number or ID number:
UN proper shipping name:
Transport hazard class(es):
Packing group:
Environmental hazards:
Special precautions for

Not applicable
Not applicable
Not applicable
Not applicable
Not applicable
Not applicable

user

Inland waterway transport

ADN

Not classified as a dangerous good under transport regulations

UN number or ID number:
UN proper shipping name:
Transport hazard class(es):
Packing group:
Environmental hazards:
Special precautions for

Not applicable
Not applicable
Not applicable
Not applicable
Not applicable
Not applicable

user:

Transport in inland waterway vessel

Not evaluated

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

UN number or ID number: Not applicable UN proper shipping name: Not applicable Transport hazard class(es): Not applicable

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Packing group:
Environmental hazards:
Special precautions for
Not applicable
None known

user

Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

UN number or ID number:
UN proper shipping name:
Transport hazard class(es):
Packing group:
Environmental hazards:
Special precautions for

Not applicable
Not applicable
Not applicable
Not applicable
Not applicable

user

14.1. UN number or ID number

See corresponding entries for "UN number or ID number" for the respective regulations in the tables above.

14.2. UN proper shipping name

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

14.3. Transport hazard class(es)

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

14.4. Packing group

See corresponding entries for "Packing group" for the respective regulations in the tables above.

14.5. Environmental hazards

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

14.6. Special precautions for user

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

14.7. Maritime transport in bulk according to IMO instruments

Maritime transport in bulk is not intended.

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SECTION 15: Regulatory Information

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

Hazardous Incident Ordinance (Germany):

Listed in above regulation: no

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU): Listed in above regulation: no

Water hazard class (§8/§10 AwSV (Self-classification of the mixture according to calculation method)): (1) Weakly water polluting.

Law on the Protection of Working Youth

German Regulation TA Luft (Technical Instruction on Air Quality Control, i.e. first Directive to the Federal Immission Control Ordinance)

15.2. Chemical Safety Assessment

Assessment of safe use has been performed for the mixture and the result is documented in section 7 and 8 of the SDS

SECTION 16: Other Information

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned

in section 2 or 3:

Flam. Liq. Flammable liquids

Eye Dam./Irrit. Serious eye damage/eye irritation

STOT SE Specific target organ toxicity — single exposure

Acute Tox. Acute toxicity

Skin Corr./Irrit. Skin corrosion/irritation

Aquatic Acute Hazardous to the aquatic environment - acute Hazardous to the aquatic environment - chronic

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

H311 Toxic in contact with skin.
H335 May cause respiratory irritation.

H314 Causes severe skin burns and eye damage.

H302 + H332 Harmful if swallowed or if inhaled

H411 Toxic to aquatic life with long lasting effects.

H400 Very toxic to aquatic life.

Abbreviations

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road. ADN = The European Agreement concerning the International Carriage of Dangerous Goods by Inland

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waterways. ATE = Acute Toxicity Estimates. CAO = Cargo Aircraft Only. CAS = Chemical Abstract Service. CLP = Classification, Labelling and Packaging of substances and mixtures. DIN = German national organization for standardization. DNEL = Derived No Effect Level. EC50 = Effective concentration median for 50% of the population. EC = European Community. EN = European Standards. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IBC-Code = Intermediate Bulk Container code. IMDG = International Maritime Dangerous Goods Code. ISO = International Organization for Standardization. STEL = Short-Term Exposure Limit. LC50 = Lethal concentration median for 50% of the population. LD50 = Lethal dose median for 50% of the population. TLV = Threshold Limit Value. MARPOL = The International Convention for the Prevention of Pollution from Ships. NEN = Dutch Norm. NOEC = No Observed Effect Concentration. OEL = Occupational Exposure Limit. OECD = Organization for Economic Cooperation and Development. PBT = Persistent, Bioaccumulative and Toxic. PNEC = Predicted No Effect Level. PPM = Parts per million. RID = The European Agreement concerning the International Carriage of Dangerous Goods by Rail. TWA = Time Weight Average. UN-number = UN number at transport. vPvB = very Persistent and very Bioaccumulative.

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.

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