

Safety data sheet

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BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from time to time.

Date / Revised: 06.11.2023

Version: 4.0

Date previous version: 04.05.2023

Previous version: 3.0

Date / First version: 29.07.2015

Product: **Dispex® CX 4230**

(ID no. 30535654/SDS_GEN_GB/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

Contact address:

BASF plc
4th and 5th Floors, 2 Stockport Exchange
Railway Road, Stockport, SK1 3GG
UNITED KINGDOM

Telephone: +44 161 475 3000

E-mail address: product-safety-uk-and-ireland@basf.com

1.4. Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

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 GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

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

2.2. Label elements

According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

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

2.3. Other hazards

According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

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

Hazardous ingredients (GHS)

propan-2-ol

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Content (W/W): $\geq 1\%$ - $< 5\%$
 CAS Number: 67-63-0
 EC-Number: 200-661-7
 REACH registration number: 01-2119457558-25
 INDEX-Number: 603-117-00-0

Flam. Liq. 2
 Eye Dam./Irrit. 2
 STOT SE 3 (drowsiness and dizziness)
 H225, H319, H336

methacrylic acid

Content (W/W): $\geq 0\%$ - $< 0.8\%$
 CAS Number: 79-41-4
 EC-Number: 201-204-4
 REACH registration number: 01-2119463884-26
 INDEX-Number: 607-088-00-5

Acute Tox. 4 (oral)
 Acute Tox. 4 (Inhalation - mist)
 Acute Tox. 3 (dermal)
 Skin Corr./Irrit. 1A
 Eye Dam./Irrit. 1
 STOT SE 3 (irr. to respiratory syst.)
 H311, H335, H314, H302 + H332

Specific concentration limit:

STOT SE 3, irr. to respiratory syst.: $\geq 1\%$

ammonia%

Content (W/W): $\geq 0.3\%$ - $< 1\%$
 CAS Number: 1336-21-6
 EC-Number: 215-647-6
 REACH registration number: 01-2119488876-14
 INDEX-Number: 007-001-01-2

Skin Corr./Irrit. 1B
 Eye Dam./Irrit. 1
 STOT SE 3 (irr. to respiratory syst.)
 Aquatic Acute 1
 Aquatic Chronic 2
 H335, H314, H411, H400

Specific concentration limit:

STOT SE 3, irr. to respiratory syst.: $\geq 5\%$

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:

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

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.

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.

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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.

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

67-63-0: propan-2-ol

TWA value 999 mg/m³ ; 400 ppm (WEL/EH 40 (UK))

STEL value 1,250 mg/m³ ; 500 ppm (WEL/EH 40 (UK))

Ceiling limit value/factor: 15 min

79-41-4: methacrylic acid

TWA value 72 mg/m³ ; 20 ppm (WEL/EH 40 (UK))

STEL value 143 mg/m³ ; 40 ppm (WEL/EH 40 (UK))

Ceiling limit value/factor: 15 min

1336-21-6: ammonia%

STEL value 25 mg/m³ ; 35 ppm (WEL/EH 40 (UK))

Ceiling limit value/factor: 15 min

TWA value 18 mg/m³ ; 25 ppm (WEL/EH 40 (UK))

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

indicative

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

indicative

Components with PNEC

67-63-0: propan-2-ol

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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

STP: 100 mg/l
 freshwater: 0.82 mg/l
 marine water: 0.082 mg/l
 sediment (freshwater): 3.09 mg/kg
 sediment (marine water): 0.309 mg/kg
 soil: 0.137 mg/kg

| 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: 39.3 mg/m³
 worker: Long-term exposure - local effects, dermal: 0.38 mg/cm²
 worker: Long-term exposure - local effects, Inhalation: 44 mg/m³
 consumer: Long-term exposure- systemic effects, dermal: 5.35 mg/kg
 consumer: Long-term exposure- systemic effects, Inhalation: 11.7 mg/m³
 consumer: Long-term exposure- systemic effects, oral: 5.35 mg/kg

| 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

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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. 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

Form:	liquid	
Colour:	yellow cloudy	
Odour:	ammonia-like	
Odour threshold:	Not determined due to potential health hazard by inhalation.	
pH value:	7.5 - 8.0 (as such)	
Freezing point:	approx. 0 - 5 °C	
Boiling point:	Information applies to the solvent. approx. 100 °C	
Flash point:	Information applies to the solvent. > 93.4 °C	(ASTM D93)
Evaporation rate:		
Flammability:	not determined	
Lower explosion limit:	not flammable	
	For liquids not relevant for classification and labelling., The lower explosion point may be 5 - 15 °C below the flash point.	

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Upper explosion limit:	For liquids not relevant for classification and labelling.	
Ignition temperature:	Based on the water content the product does not ignite.	
Vapour pressure:	not determined	
Density:	1.0904 - 1.1144 g/cm ³ (20 °C)	
Relative density:	1.0904 - 1.1144 (20 °C)	
Relative vapour density (air):	not determined	
Solubility in water:	dispersible (20 °C)	
Partitioning coefficient n-octanol/water (log K _{ow}):	not applicable for mixtures	
Self ignition:	not self-igniting	Test type: Spontaneous self-ignition at room-temperature.
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.	
Viscosity, dynamic:	50.00 - 250.00 mPa*s (23 °C)	
Viscosity, kinematic:	approx. 45 - 230 mm ² /s (23 °C)	(calculated (from dynamic viscosity))
Explosion hazard:	not explosive	
Fire promoting properties:	not fire-propagating	

9.2. Other information

Self heating ability: Study scientifically not justified.

Hygroscopy: Non-hygroscopic

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.

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.

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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 toxicological effects

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 eye damage/irritation

rabbit: non-irritant

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

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

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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.

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)

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not determined

Microorganisms/Effect on activated sludge:

EC50 (0.5 h), bacteria (other)

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/EWG, C.4-C) (aerobic)

12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

The product has not been tested.

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. Other adverse effects

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

12.7. Additional information

Add. remarks environm. fate & pathway:

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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.

The UK Environmental Protection (Duty of Care) Regulations (EP) and amendments should be noted (United Kingdom).

Contaminated packaging:

Untamminated 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

Land transport

ADR

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

RID

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

Inland waterway transport

ADN

Not classified as a dangerous good under transport regulations

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UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user:	None known

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

Air transport

IATA/ICAO

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

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.

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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.

SECTION 15: Regulatory Information

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

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

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

The data should be considered when making any assessment under the Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, for example, 'COSHH Essentials' (United Kingdom).

The product contains a substance (Schedule 1A) regulated under United Kingdom Poisons Act 1972. This may result in obligations for your company according to the statutory requirements of the aforementioned regulation and the respective national implementing regulations.

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

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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
Aquatic Chronic	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 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.