

Safety data sheet

Page: 1/16

BASF Safety data sheet according to the United Nations' Globally Harmonized System (UN GHS)

Date / Revised: 22.07.2024

Version: 5.2

Product: **A-U-46S 0,4L**

(ID no. 50736267/SDS_GEN_00/EN)

Date of print 23.07.2024

1. Identification

Product identifier

A-U-46S 0,4L

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

Relevant identified uses: Coatings and related products

Details of the supplier of the safety data sheet

Company:

BASF Coatings GmbH
Postfach 6123
48136 Muenster
Deutschland

Telephone: +49/2501/143688

E-mail address: product-safety-coatings@basf.com

Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

2. Hazards Identification

Classification of the substance or mixture

According to UN GHS criteria

Skin Corr./Irrit. 2
Eye Dam./Irrit. 1
Skin Sens. 1
STOT SE 3 (May cause drowsiness and dizziness.)
Aquatic Acute 2
Aquatic Chronic 2
Flam. Aerosol 1
Flam. Aerosol 1

For the classifications not written out in full in this section the full text can be found in section 16.

Label elements

Globally Harmonized System, UN (GHS)

Pictogram:



Signal Word:

Danger

Hazard Statement:

H318	Causes serious eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.
H222	Extremely flammable aerosol.
H336	May cause drowsiness or dizziness.
H229	Pressurized container: May burst if heated.

Precautionary Statements (Prevention):

P251	Do not pierce or burn, even after use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves, protective clothing and eye protection or face protection.
P264	Wash contaminated body parts thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P211	Do not spray on an open flame or other ignition source.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.

Precautionary Statements (Response):

Safety data sheet according to the United Nations' Globally Harmonized System (UN GHS)

Date / Revised: 22.07.2024

Version: 5.2

Product: **A-U-46S 0,4L**

(ID no. 50736267/SDS_GEN_00/EN)

Date of print 23.07.2024

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.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P310	Immediately call a POISON CENTER or physician.
P333 + P313	If skin irritation or rash occurs: Get medical attention.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P391	Collect spillage.

Precautionary Statements (Storage):

P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.
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P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.

Precautionary Statements (Disposal):

P501	Dispose of contents and container to hazardous or special waste collection point.
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Labeling of special preparations (GHS):

Do not spray on an open flame or other ignition source.

Other hazards

According to UN GHS criteria

Container is under pressure. Protect from sun and temperatures above 50 °C. Do not open with force or incinerate even after use. Do not spray into flames or onto glowing objects.

3. Composition/Information on Ingredients

Substances

Not applicable

Mixtures

Chemical nature

fillers, organic solvent, inorganic acids, pigment, epoxy resin

Hazardous ingredients (GHS)

According to UN GHS criteria

Dimethyl ether

Safety data sheet according to the United Nations' Globally Harmonized System (UN GHS)

Date / Revised: 22.07.2024

Version: 5.2

Product: **A-U-46S 0,4L**

(ID no. 50736267/SDS_GEN_00/EN)

Date of print 23.07.2024

Content (W/W): $\geq 30\%$ - $< 50\%$ Press. Gas Liquef. Gas
 CAS Number: 115-10-6 Flam. Gas 1A
 EC-Number: 204-065-8 H280, H220, H230
 INDEX-Number: 603-019-00-8

Substance with EU occupational exposure limit

Acetone

Content (W/W): $\geq 20\%$ - $< 25\%$ Flam. Liq. 2
 CAS Number: 67-64-1 Eye Irrit. 2A
 EC-Number: 200-662-2 STOT SE 3 (drowsiness and dizziness)
 INDEX-Number: 606-001-00-8 H225, H319, H336
 EUH066

n-Butyl acetate

Content (W/W): $\geq 12,5\%$ - $< 15\%$ Flam. Liq. 3
 CAS Number: 123-86-4 STOT SE 3 (drowsiness and dizziness)
 EC-Number: 204-658-1 Aquatic Acute 3
 INDEX-Number: 607-025-00-1 H226, H336, H402
 EUH066

Butan-1-ol

Content (W/W): $\geq 5\%$ - $< 7\%$ Flam. Liq. 3
 CAS Number: 71-36-3 Acute Tox. 5 (oral)
 EC-Number: 200-751-6 Acute Tox. 5 (dermal)
 Skin Corr./Irrit. 2
 Eye Dam./Irrit. 1
 STOT SE 3 (drowsiness and dizziness)
 STOT SE 3 (irr. to respiratory syst.)
 H226, H318, H315, H336, H335, H303 + H313

Orthophosphoric acid

Content (W/W): $\geq 1\%$ - $< 2\%$ Met. Corr. 1
 CAS Number: 7664-38-2 Acute Tox. 4 (oral)
 EC-Number: 231-633-2 Skin Corr. 1B
 INDEX-Number: 015-011-00-6 Eye Dam. 1
 H290, H302, H314

Specific concentration limit:

Skin Corr./Irrit. 1B: $\geq 25\%$
 Eye Dam./Irrit. 2: $10 - < 25\%$
 Skin Corr./Irrit. 2: $10 - < 25\%$

Trizinc bis(orthophosphate)

Content (W/W): $\geq 1\%$ - $< 2\%$ Aquatic Acute 1
 CAS Number: 7779-90-0 Aquatic Chronic 1
 EC-Number: 231-944-3 M-factor acute: 1
 M-factor chronic: 1
 H400, H410

Safety data sheet according to the United Nations' Globally Harmonized System (UN GHS)

Date / Revised: 22.07.2024

Version: 5.2

Product: **A-U-46S 0,4L**

(ID no. 50736267/SDS_GEN_00/EN)

Date of print 23.07.2024

Zinc oxide

Content (W/W): $\geq 1\%$ - $< 2\%$
 CAS Number: 1314-13-2
 EC-Number: 215-222-5
 INDEX-Number: 030-013-00-7

Aquatic Acute 1
 Aquatic Chronic 1
 M-factor acute: 1
 M-factor chronic: 1
 H400, H410

Xylene

Content (W/W): $\geq 1\%$ - $< 2\%$
 CAS Number: 1330-20-7
 EC-Number: 215-535-7
 INDEX-Number: 601-022-00-9

Asp. Tox. 1
 Flam. Liq. 3
 Acute Tox. 5 (Inhalation - vapour)
 Acute Tox. 5 (oral)
 Skin Irrit. 2
 Eye Irrit. 2B
 STOT SE 3 (irr. to respiratory syst.)
 Aquatic Chronic 3
 STOT RE (Central nervous system, Liver, Kidney) 2
 Aquatic Acute 2
 H226, H320, H315, H304, H335, H373, H303 + H333, H412, H401

Ethylbenzene

Content (W/W): $\geq 1\%$ - $< 2\%$
 CAS Number: 100-41-4
 EC-Number: 202-849-4
 INDEX-Number: 601-023-00-4

Asp. Tox. 1
 Flam. Liq. 2
 Acute Tox. 4 (Inhalation - vapour)
 Acute Tox. 5 (oral)
 STOT RE (Auditory organ) 2
 Aquatic Acute 2
 Aquatic Chronic 3
 H225, H332, H303, H304, H373, H412, H401

Propan-2-ol

Content (W/W): $\geq 1\%$ - $< 2\%$
 CAS Number: 67-63-0
 EC-Number: 200-661-7
 INDEX-Number: 603-117-00-0

Flam. Liq. 2
 Acute Tox. 5 (oral)
 Eye Irrit. 2A
 STOT SE 3 (drowsiness and dizziness)
 H225, H319, H303, H336

2-Methoxy-1-methylethyl acetate

Content (W/W): $\geq 1\%$ - $< 2\%$
 CAS Number: 108-65-6
 EC-Number: 203-603-9
 INDEX-Number: 607-195-00-7

Flam. Liq. 3
 STOT SE 3 (drowsiness and dizziness)
 H226, H336

epoxy resin, molecular weight > 700

Safety data sheet according to the United Nations' Globally Harmonized System (UN GHS)

Date / Revised: 22.07.2024

Version: 5.2

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(ID no. 50736267/SDS_GEN_00/EN)

Date of print 23.07.2024

Content (W/W): $\geq 1\%$ - $< 2\%$

CAS Number: 25036-25-3

Skin Corr./Irrit. 2

Skin Sens. 1

Eye Dam./Irrit. 2A

H319, H315, H317

For the classifications not written out in full in this section the full text can be found in section 16.

4. First-Aid Measures

Description of first aid measures

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Remove affected person from danger area. Immediately remove contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

If inhaled:

Remove the affected individual into fresh air and keep the person calm. If symptoms persist, seek medical advice. If breathing is irregular or stopped, administer artificial respiration.

On skin contact:

If symptoms persist, seek medical advice. Remove contaminated clothing. Wash skin with soap and water, rinse abundantly. Do NOT use solvents or thinners.

On contact with eyes:

Remove contact lenses, if present. Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist. Immediate medical attention required.

On ingestion:

Do not induce vomiting. Rinse mouth thoroughly with water, seek medical attention. If adverse health effects develop seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms: allergic symptoms, dazed state, skin irritation, dizziness, 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.

Antidote: No known specific antidote.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:

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

Unsuitable extinguishing media for safety reasons:

water jet

Special hazards arising from the substance or mixture

carbon oxides, phosphorus oxides

Cool containers exposed to fire with water. Decomposition, pressure build-up and bursting of containers may occur.

Advice for fire-fighters

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.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours. For non-emergency personnel: Use personal protective clothing. Ensure adequate ventilation. Keep away from sources of ignition. For emergency responders: Advice on product handling can be found in sections 7 and 8 of this safety data sheet. Information regarding personal protective measures, see section 8.

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 and material for containment and cleaning 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.

7. Handling and Storage

Precautions for safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Do not return residues to the storage containers. Do not spray on an open flame or other ignition source. Handle with care - avoid bumps, friction and impact. Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws. 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. Avoid inhalation of vapour and spray mist. The workplace should be equipped with an emergency shower and eye-rinsing facility. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

Avoid all sources of ignition: heat, sparks, open flame. The relevant fire protection measures should be noted.

Conditions for safe storage, including any incompatibilities

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

Suitable materials for containers: Carbon steel (Iron), tinned carbon steel (Tinplate)

Further information on storage conditions: Keep container dry. Keep away from heat. Keep in a cool, well-ventilated place. Avoid direct sunlight. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. Always keep in containers of same material as the original one. Observe label precautions.

Specific end use(s)

Please refer to the technical leaflet for further information.

8. Exposure Controls/Personal Protection

Control parameters

Components with occupational exposure limits

67-64-1: Acetone
100-41-4: Ethylbenzene
108-65-6: 2-Methoxy-1-methylethyl acetate
115-10-6: Dimethyl ether
123-86-4: n-Butyl acetate
1330-20-7: Xylene
7664-38-2: Orthophosphoric acid

Exposure controls

Personal protective equipment

Respiratory protection:

Suitable respiratory protection: e.g. half-mask with A1P2 class combination filter

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 ISO 374-1 is suitable: e.g.

butyl rubber gloves - material thickness: 0.5 mm

Eye protection:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

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. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. 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.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

State of matter:	liquid	
Form:	liquid	
Colour:	grey	
Odour:	ether-like	
Melting point:	Study technically not feasible.	
onset of boiling:	-24 °C	(calculated)
Flammability:	Extremely flammable aerosol.	
Lower explosion limit:	1,2 %(V)	
Flash point:	not applicable, the product is a gas	
Auto-ignition temperature:	235,00 °C	
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.	
pH value:	substance/mixture is a gas	
Viscosity, kinematic:	9,8 mm ² /s (23 °C) without propellant	
	(40 °C) No data available.	
Partitioning coefficient n-octanol/water (log Kow):	not applicable for mixtures	
Vapour pressure:	> 999,00 hPa (20 °C) without propellant	(calculated)
	(50 °C) not determined	
Density:	0,750 g/cm ³ (20 °C)	
Relative vapour density (air):	Heavier than air.	

9.2. Other information

Information with regard to physical hazard classes

Explosives

Explosion hazard: not explosive

Oxidizing properties

Fire promoting properties: not fire-propagating

Flammable solids

Burning rate: The material doesn't meet the criteria (UN Test N.1 (ready specified in paragraph 33.2.4.4 of UN combustible solids)) manual of tests and criteria.

Self-heating substances and mixtures

Self heating ability: It is not a material capable of spontaneous heating

Other safety characteristics

Miscibility with water:

immiscible

Flow time:

35 s

(DIN EN ISO 2431; 3 mm)

(23 °C)

without propellant

10. Stability and Reactivity

Reactivity

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

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

Risk of bursting. Vapours may form explosive mixture with air.

Conditions to avoid

Avoid heat. Avoid direct sunlight.

Incompatible materials

Substances to avoid:

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

Hazardous decomposition products

:

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.

11. Toxicological Information

Information on toxicological effects

Acute toxicity

Assessment of acute toxicity:

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.

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

Irritation

Assessment of irritating effects:

The liquid splashed in the eyes may cause irritation and reversible damage. Skin contact causes irritation. May cause severe damage to the eyes.

Respiratory/Skin sensitization

Assessment of sensitization:

Sensitization after skin contact possible.

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:

Safety data sheet according to the United Nations' Globally Harmonized System (UN GHS)

Date / Revised: 22.07.2024

Version: 5.2

Product: **A-U-46S 0,4L**

(ID no. 50736267/SDS_GEN_00/EN)

Date of print 23.07.2024

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

Specific target organ toxicity (single exposure)

Assessment of STOT single:

Possible narcotic effects (drowsiness or dizziness).

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

Assessment of repeated dose toxicity:

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

Aspiration hazard

No aspiration hazard expected.

12. Ecological Information

Toxicity

Assessment of aquatic toxicity:

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

Persistence and degradability

Assessment biodegradation and elimination (H₂O):

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: n-Butyl acetate

Elimination information:

80 % BOD of the ThOD (5 d) (OECD 301D; 92/69/EWG, C.4-E) (aerobic, municipal sewage treatment plant effluent)

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.

Information on: Trizinc bis(orthophosphate)

Bioaccumulative potential

Bioaccumulation potential:

No data available.

Mobility in soil

Assessment transport between environmental compartments:

Adsorption in soil: No data available.

13. Disposal Considerations

Waste treatment methods

Do not discharge into drains/surface waters/groundwater.

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.

14. Transport Information

Land transport

ADR

UN number or ID number: UN1950

UN proper shipping name: AEROSOLS

Transport hazard class(es): 2.1, EHSM

Packing group: Not applicable

Environmental hazards: yes

Special precautions for user: Tunnel code: D

RID

UN number or ID number: UN1950

UN proper shipping name: AEROSOLS

Transport hazard class(es): 2.1, EHSM

Packing group: Not applicable

Environmental hazards: yes

Special precautions for user: None known

Safety data sheet according to the United Nations' Globally Harmonized System (UN GHS)

Date / Revised: 22.07.2024

Version: 5.2

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(ID no. 50736267/SDS_GEN_00/EN)

Date of print 23.07.2024

Inland waterway transport

ADN

UN number or ID number: UN1950
UN proper shipping name: AEROSOLS

Transport hazard class(es): 2.1, EHSM
Packing group: Not applicable
Environmental hazards: yes
Special precautions for user: None known

Transport in inland waterway vessel

Not evaluated

Sea transport

IMDG

UN number or ID number: UN 1950
UN proper shipping name: AEROSOLS (ZINC OXIDE)

Transport hazard class(es): 2.1, EHSM
Packing group: Not applicable
Environmental hazards: yes
Marine pollutant: YES
Special precautions for user: EmS: F-D; S-U

Air transport

IATA/ICAO

UN number or ID number: UN 1950
UN proper shipping name: AEROSOLS, FLAMMABLE

Transport hazard class(es): 2.1
Packing group: Not applicable
Environmental hazards: No Mark as dangerous for the environment is needed
Special precautions for user: None known

Maritime transport in bulk according to IMO instruments

Maritime transport in bulk is not intended.

15. Regulatory Information

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

Not applicable

16. Other Information

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

Full text of classifications, hazard symbols and hazard statements, if mentioned in section 2 or 3:

Skin Corr./Irrit.	Skin corrosion/irritation
Eye Dam./Irrit.	Serious eye damage/eye irritation
Skin Sens.	Skin sensitization
STOT SE	Specific target organ toxicity — single exposure
Aquatic Acute	Hazardous to the aquatic environment - acute
Aquatic Chronic	Hazardous to the aquatic environment - chronic
Flam. Aerosol	Flammable aerosols
Press. Gas	Gases under pressure
Flam. Gas	Flammable gases
Flam. Liq.	Flammable liquids
Eye Irrit.	Eye irritation
Acute Tox.	Acute toxicity
Met. Corr.	Corrosive to metals
Skin Corr.	Skin corrosion
Eye Dam.	Serious eye damage
Asp. Tox.	Aspiration hazard
Skin Irrit.	Skin irritation
STOT RE	Specific target organ toxicity — repeated exposure
H280	Contains gas under pressure; may explode if heated.
H220	Extremely flammable gas.
H230	May react explosively even in the absence of air.
H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H226	Flammable liquid and vapour.
H402	Harmful to aquatic life.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H303 + H313	May be harmful if swallowed or in contact with skin.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H320	Causes eye irritation.
H304	May be fatal if swallowed and enters airways.
H373	May cause damage to organs (Central nervous system, Liver, Kidney) through prolonged or repeated exposure.
H303 + H333	May be harmful if swallowed or if inhaled.

Safety data sheet according to the United Nations' Globally Harmonized System (UN GHS)

Date / Revised: 22.07.2024

Version: 5.2

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(ID no. 50736267/SDS_GEN_00/EN)

Date of print 23.07.2024

H412	Harmful to aquatic life with long lasting effects.
H401	Toxic to aquatic life.
H332	Harmful if inhaled.
H303	May be harmful if swallowed.
H317	May cause an allergic skin reaction.
EUH066	Repeated exposure may cause skin dryness or cracking.

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.