

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

1.1. Product identifier

Product form : Mixture
Trade name : CAFLON E39 / DISSOLVINE E39
Type of product : Water-based dispersion / solution.

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial
For professional use only
Function or use category : Intermediates

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Rewah NV
Nijverheidsweg 24
B-2240 Zandhoven
Belgique-België
T +32 (0)3 475 14 14
info@rewah.com, www.rewah.com

1.4. Emergency telephone number

Emergency number : +32 (0)70 245 245

Country/Area	Organisation	Emergency number
Belgium	Centre Anti-Poisons/Antigifcentrum. c/o Hôpital Central de la Base - Reine Astrid. Rue Bruyn 1 1120 Bruxelles/Brussel.	+ 32 (0)70 245 245

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute Tox. 4 (Oral) H302
Acute Tox. 4 (Inhalation:dust,mist) H332
Skin Irrit. 2 H315
Eye Dam. 1 H318
STOT RE 2 H373

Full text of hazard classes, H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :



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Signal word (CLP)	: Danger
Contains	: tetrasodium ethylene diamine tetraacetate; SODIUM GLYCOLATE; sodium hydroxide; caustic soda
Hazard statements (CLP)	: H290 - May be corrosive to metals. H332 - Harmful if inhaled. H315 - Causes skin irritation. H318 - Causes serious eye damage. H373 - May cause damage to organs through prolonged or repeated exposure.
Precautionary statements (CLP)	: P260 - Do not breathe vapours, spray. P280 - Wear protective gloves, protective clothing, eye protection, face protection. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P314 - Get medical advice/attention if you feel unwell. P390 - Absorb spillage to prevent material damage. P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
tetrasodium ethylene diamine tetraacetate	CAS-No.: 64-02-8 EC-No.: 200-573-9 EC Index-No.: 607-428-00-2 REACH-no: 01-2119486762-27	30-60	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Eye Dam. 1, H318 STOT RE 2, H373
trisodium nitrilotriacetate	CAS-No.: 5064-31-3 EC-No.: 225-768-6 EC Index-No.: 607-620-00-6 REACH-no: 01-2119519239-36	1 – 5	Carc. 2, H351 Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319
trisodium 2,2'-((2-((carboxylatomethyl)amino)ethyl)imino)diacetate	CAS-No.: 19019-43-3	1 – 5	Eye Irrit. 2, H319
SODIUM GLYCOLATE	CAS-No.: 2836-32-0 EC-No.: 220-624-9	1 – 5	Skin Irrit. 2, H315 Eye Dam. 1, H318
sodium hydroxide; caustic soda	CAS-No.: 1310-73-2 EC-No.: 215-185-5 EC Index-No.: 011-002-00-6 REACH-no: 01-2119457892-27	< 2	Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318

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Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
trisodium nitrilotriacetate	CAS-No.: 5064-31-3 EC-No.: 225-768-6 EC Index-No.: 607-620-00-6 REACH-no: 01-2119519239-36	(5 ≤ C < 100) Carc. 2; H351
sodium hydroxide; caustic soda	CAS-No.: 1310-73-2 EC-No.: 215-185-5 EC Index-No.: 011-002-00-6 REACH-no: 01-2119457892-27	(0,5 ≤ C < 2) Eye Irrit. 2; H319 (0,5 ≤ C < 2) Skin Irrit. 2; H315 (2 ≤ C < 5) Skin Corr. 1B; H314 (5 ≤ C < 100) Skin Corr. 1A; H314

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Get medical attention if any discomfort continues.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Get medical attention if any discomfort continues.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get immediate medical advice/attention. Continue rinsing. Consult an eye specialist.
First-aid measures after ingestion	: Rinse mouth thoroughly with water. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Drink plenty of water. Get medical attention if any discomfort continues.

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

Symptoms/effects after inhalation	: Harmful if inhaled.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye damage. Risk of serious permanent damages to eyes if the product is not rapidly removed.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Alcohol-resistant foam. Carbon dioxide. Dry powder. Water spray.
Unsuitable extinguishing media	: Do not use water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire	: Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Nitrous gasses. Ammonia. Amines.
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5.3. Advice for firefighters

Firefighting instructions	: Wear a self-contained breathing apparatus and appropriate personal protective equipment (PPE).
Protection during firefighting	: Beware of reignition.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Do not breathe aerosol. Avoid contact with skin and eyes. Ensure adequate air ventilation.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment.

6.2. Environmental precautions

Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. Do not allow to enter drains or water courses. Do not discharge into the subsoil/soil.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Collect the residue by means of a non-combustible absorbent material. Collect and place spilled material in suitable waste disposal containers and seal securely. See Section 13 for disposal information.

6.4. Reference to other sections

See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid spills / leaks. Avoid contact with skin and eyes. Avoid inhalation of vapour and spray mist. Provide adequate ventilation. Keep container closed when not in use.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store tightly closed in a dry, cool and well-ventilated place. Store in original container. Do not store for extended periods.

Storage temperature : 18 – 50 °C

Special rules on packaging : Do not store in unlabeled containers. Always keep container in upright position. Unsuitable container materials: Non ferrous metals (Al, Cu, Zn) and their alloys.

7.3. Specific end use(s)

See Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

sodium hydroxide; caustic soda (1310-73-2)	
Belgium - Occupational Exposure Limits	
Local name	Sodium (hydroxyde de)
OEL TWA	2 mg/m ³
Remark	M
Regulatory reference	Koninklijk besluit/Arrêté royal 16/11/2023
United Kingdom - Occupational Exposure Limits	
Local name	Sodium hydroxide

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sodium hydroxide; caustic soda (1310-73-2)	
WEL STEL (OEL STEL)	2 mg/m ³
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

CAFLON E39 / DISSOLVINE E39	
DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	2,5 mg/m ³
Acute - local effects, inhalation	2,5 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, inhalation	1,5 mg/m ³
Acute - local effects, inhalation	1,5 mg/m ³
Long-term - systemic effects, oral	25 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	2,2 mg/l
PNEC aqua (marine water)	0,22 mg/l
PNEC (Soil)	
PNEC soil	0,72 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	43 mg/l

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Avoid inhalation of vapours. Follow the exposure limits given on this material safety data sheet.

8.2.2. Personal protection equipment

Personal protective equipment:

Opaque eye protection must be worn. Wear respiratory protection. Wear protective gloves.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Chemical splash-proof acid goggles. EN 166

8.2.2.2. Skin protection

Skin and body protection:

If repeated skin contact or contamination of clothing is likely, protective clothing should be worn. Long sleeved protective clothing

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Hand protection:

Wear protective gloves. Time of penetration is to be checked with the glove producer. Butyl-rubber protective gloves. Neoprene. Nitrile rubber. Polyethylene. Polyvinylchloride (PVC). Material(s) to avoid. Polyvinylalcohol (PVA). ISO 374-1

8.2.2.3. Respiratory protection

Respiratory protection:

Wear suitable respiratory equipment in case of insufficient ventilation. In case of fumes or aerosols: wear a respirator half mask P2. Full-/half-/quarter-face masks (DIN EN 136/140)

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Other information:

When using, do not eat, drink or smoke. Wash hands and face before break and at end of works. Take off immediately all contaminated clothing and wash it before reuse.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Yellow.
Odour	: Ammoniacal.
Odour threshold	: No data available
pH	: No data available
pH solution	: 11 – 12 @ 1% solution
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: < 0,8
Melting point	: -31 °C
Freezing point	: No data available
Boiling point	: 105 – 110 °C
Flash point	: No data available
Auto-ignition temperature	: > 200 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20°C	: No data available
Relative density	: 1,15 – 1,38 @ 25°C
Solubility	: Completely soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: < 0
Viscosity, kinematic	: 10 – 19 mm ² /s @ 20°C
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

None under normal conditions.

10.2. Chemical stability

The product is stable if the regulations / instructions for storage and handling are followed.

10.3. Possibility of hazardous reactions

Does not polymerize.

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10.4. Conditions to avoid

Avoid excessive heat for prolonged periods of time. Avoid contact with aluminium.

10.5. Incompatible materials

strong oxidising compounds. Aluminium. Zinc (Zn). Nickel (Ni). Copper (Cu).

10.6. Hazardous decomposition products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Nitrogen oxides. Ammonia. Amines.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Inhalation:dust,mist: Harmful if inhaled.
Additional information	: Irritates mucous membranes in the mouth, throat, esophagus and in gastrointestinal area

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LD50 oral rat	3030 mg/kg
LD50 dermal rat	5000 mg/kg
ATE CLP (gases)	11250 ppmv/4h
ATE CLP (vapours)	27,5 mg/l

tetrasodium ethylene diamine tetraacetate (64-02-8)

LD50 oral rat	1780 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LC50 Inhalation - Rat	1 – 5 mg/l/4h

trisodium nitrilotriacetate (5064-31-3)

LD50 oral rat	1740 mg/kg
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trisodium 2,2'-((2-((carboxylatomethyl)amino)ethyl)imino)diacetate (19019-43-3)

LD50 oral rat	1780 mg/kg
LC50 Inhalation - Rat	> 1 – < 5 mg/l

sodium hydroxide; caustic soda (1310-73-2)

LD50 oral rat	500 mg/kg
LD50 oral	> 500 mg/kg Rabbit
LC50 Inhalation - Rat	> 1 – < 5 mg/l

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Can cause chemical eye burns
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Damage to kidneys

tetrasodium ethylene diamine tetraacetate (64-02-8)

NOAEC (inhalation, rat, gas, 90 days)	3
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

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Aspiration hazard : Harmful if inhaled

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Viscosity, kinematic	10 – 19 mm ² /s @ 20°C
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SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product components are not classified as environmentally hazardous. Large or regular discharges can have dangerous effects on the environment.

Ecology - water : The product may affect the acidity (pH) of the water, which may have harmful effects on aquatic organisms.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

tetrasodium ethylene diamine tetraacetate (64-02-8)

LC50 - Fish [1]	> 100 mg/l
EC50 - Crustacea [1]	> 500 mg/l
EC50 72h - Algae [1]	> 100 mg/l

sodium hydroxide; caustic soda (1310-73-2)

LC50 - Fish [1]	33 – 189 mg/l
LC50 - Fish [2]	45,5 mg/l <i>Oncorhynchus mykiss</i>
EC50 - Other aquatic organisms [1]	40 – 240 mg/l <i>Daphnia magna</i>

12.2. Persistence and degradability

CAFLON E39 / DISSOLVINE E39

Persistence and degradability	Rapidly degradable
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12.3. Bioaccumulative potential

CAFLON E39 / DISSOLVINE E39

Partition coefficient n-octanol/water (Log Pow)	< 0
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tetrasodium ethylene diamine tetraacetate (64-02-8)

BCF - Fish [1]	1,8 <i>Lepomis macrochirus</i>
Partition coefficient n-octanol/water (Log Pow)	-13
Bioaccumulative potential	There is no bioaccumulation.

12.4. Mobility in soil

CAFLON E39 / DISSOLVINE E39

Ecology - soil	Soluble in water.
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sodium hydroxide; caustic soda (1310-73-2)

Ecology - soil	Soluble in water.
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12.5. Results of PBT and vPvB assessment

No additional information available

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12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Waste is classified as hazardous waste. Do not puncture or incinerate, even when empty.
Product/Packaging disposal recommendations	: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

SECTION 14: Transport information

In accordance with / ADR / IMDG / IATA

14.1 UN number

UN-No. (ADR)	: UN 3267
UN-No. (IMDG)	: UN 3267
UN-No. (IATA)	: UN 3267

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
Proper Shipping Name (IMDG)	: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
Proper Shipping Name (IATA)	: Corrosive liquid, basic, organic, n.o.s.
Transport document description (ADR) (ADR)	: UN 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S., 8, III, (E)
Transport document description (IMDG)	: UN 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S., 8, III
Transport document description (IATA)	: UN 3267 Corrosive liquid, basic, organic, n.o.s., 8, III

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR)	: 8
Danger labels (ADR)	: 8



IMDG

Transport hazard class(es) (IMDG)	: 8
Danger labels (IMDG)	: 8



IATA

Transport hazard class(es) (IATA)	: 8
Danger labels (IATA)	: 8



14.4. Packing group

Packing group (ADR)	: III
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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Packing group (IMDG) : III
Packing group (IATA) : III

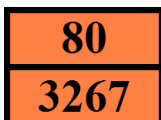
14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

14.6. Special precautions for user

Overland transport

Classification code (ADR) : C7
Special provisions (ADR) : 274
Limited quantities (ADR) : 5I
Excepted quantities (ADR) : E1
Packing instructions (ADR) : P001, IBC03, LP01, R001
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T7
Portable tank and bulk container special provisions (ADR) : TP1, TP28
Tank code (ADR) : L4BN
Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Hazard identification number (Kemler No.) : 80
Orange plates :



Tunnel restriction code (ADR) : E
EAC code : 2X

Transport by sea

Special provisions (IMDG) : 223, 274
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : P001, LP01
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) : T7
Tank special provisions (IMDG) : TP1, TP28
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-B
Stowage category (IMDG) : A
Stowage and handling (IMDG) : SW2
Segregation (IMDG) : SGG18, SG35
Properties and observations (IMDG) : Reacts violently with acids. Causes burns to skin, eyes and mucous membranes.

Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y841
PCA limited quantity max net quantity (IATA) : 1L
PCA packing instructions (IATA) : 852
PCA max net quantity (IATA) : 5L
CAO packing instructions (IATA) : 856
CAO max net quantity (IATA) : 60L
Special provisions (IATA) : A3, A803
ERG code (IATA) : 8L

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (EC 273/2004)

Does not contain a substance covered by Regulation (EC) No 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and placing on the market of certain substances used in the unlawful production of narcotic drugs and psychotropic substances .

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Carc. 2	Carcinogenicity, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Full text of H- and EUH-statements:

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Acute Tox. 4 (Oral)	H302	Calculation method
Acute Tox. 4 (Inhalation:dust,mist)	H332	Calculation method
Skin Irrit. 2	H315	Calculation method
Eye Dam. 1	H318	Calculation method
STOT RE 2	H373	Calculation method

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.