

# Safety data sheet

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BASF Safety data sheet  
Date / Revised: 30.08.2025  
Product: **Amasil® 85**

Version: 2.0

(30041102/SDS\_GEN\_MY/EN)

Date of print: 22.10.2025

## 1. Identification of the chemical and of the supplier

### Amasil® 85

Use: feed additive(s)

Manufacturer/supplier:

BASF (Malaysia) Sdn Bhd  
Lot 19.02 Level 19, 1 Powerhouse  
No 1 Persiaran Bandar Utama  
47800 Petaling Jaya  
Selangor D.E, MALAYSIA  
Telephone: +60 3 7612 1888  
Telefax number: +60 3 7612 1777

Emergency information:

National emergency number:  
+603 7612 1999  
International emergency number:  
Telephone: +49 180 2273-112

## 2. Hazard identification

Classification of the substance and mixture:

Acute Tox. 3 (Inhalation - vapour)  
Acute Tox. 4 (oral)  
Skin Corr. 1B  
Eye Dam. 1

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

Label elements and precautionary statement:

Pictogram:



Signal Word:  
Danger

Hazard Statement:

H331 Toxic if inhaled.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.

Precautionary Statements (Prevention):

P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves, protective clothing and eye protection or face protection.  
P260 Do not breathe dust/gas/mist/vapours.  
P280 Wear eye protection.  
P270 Do not eat, drink or smoke when using this product.  
P264 Wash contaminated body parts thoroughly after handling.

Precautionary Statements (Response):

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER or physician.  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P363 Wash contaminated clothing before reuse.

Precautionary Statements (Storage):

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.

Other hazards which do not result in classification:

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

Corrosive to the respiratory tract.

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### 3. Composition/information on ingredients

#### Chemical nature

carboxylic acid, formic acid (Content (W/W): > 85 %)

#### Hazardous ingredients

##### formic acid

Content (W/W): $\geq 85\%$ - $\leq 86\%$	Flam. Liq. 3
CAS Number: 64-18-6	Acute Tox. 3 (Inhalation - vapour)
	Acute Tox. 4 (oral)
	Skin Corr. 1A
	Eye Dam. 1

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

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## 4. First-Aid Measures

#### General advice:

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). Immediately remove contaminated clothing.

#### If inhaled:

Keep patient calm, remove to fresh air, seek medical attention. Immediately administer a corticosteroid from a controlled/metered dose inhaler.

#### On skin contact:

Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.

#### On contact with eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

#### On ingestion:

Do not induce vomiting. Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

#### Note to physician:

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

#### Note to physician:

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

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## 5. Fire-Fighting Measures

#### Suitable extinguishing media:

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

#### Specific hazards:

carbon monoxide

The substances/groups of substances mentioned can be released if the product is involved in a fire.

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Special protective equipment:  
Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:  
Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

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## 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:  
Breathing protection required. Avoid contact with the skin, eyes and clothing.

Environmental precautions:  
Do not empty into drains.

Methods for cleaning up or taking up:  
For large amounts: Pump off product.  
For residues: Pick up with suitable absorbent material (e.g. acid binder). Dispose of absorbed material in accordance with regulations.

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## 7. Handling and Storage

### Handling

Ensure thorough ventilation of stores and work areas. Sealed containers should be protected against heat as this results in pressure build-up.

Protection against fire and explosion:  
Sources of ignition should be kept well clear.

### Storage

Segregate from alkalies and alkalizing substances.

Suitable materials for containers: Stainless steel 1.4571, Stainless steel 1.4404, High density polyethylene (HDPE), Low density polyethylene (LDPE), glass  
Unsuitable materials for containers: Paper/Fibreboard, Carbon steel (Iron)

Storage stability:  
Storage temperature: < 30 °C  
Storage duration: ≤ 36 Months  
From the data on storage duration in this safety data sheet no agreed statement regarding the warrantee of application properties can be deduced.

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## 8. Exposure controls and personal protection

### Components with occupational exposure limits

formic acid, 64-18-6;

### Personal protective equipment

#### Respiratory protection:

Suitable respiratory protection for lower concentrations or short-term effect: Gas filter for acid inorganic gases/vapours such as SO<sub>2</sub>, HCl (e.g. EN 14387 Type E). Gas filter for gases/vapours of inorganic compounds (e.g. EN 14387 Type B) Combination filter for gases/vapours of organic, inorganic, acid inorganic and alkaline compounds (e.g. EN 14387 Type ABEK). Suitable respiratory protection for higher concentrations or long-term effect: Self-contained breathing apparatus.

#### Hand protection:

Chemical resistant protective gloves (EN ISO 374-1)

Performance level 6, corresponding to a breakthrough time of >480 min according to EN ISO 374-1 chloroprene rubber (CR) - 0.5 mm coating thickness

butyl rubber (butyl) - 0.7 mm coating thickness

fluoroelastomer (FKM) - 0.7 mm coating thickness

Polyethylene-Laminate (PE laminate) - ca. 0.1 mm coating thickness

Performance level 5, corresponding to a breakthrough time of >240 min according to EN ISO 374-1 polyvinylchloride (PVC) - 0.7 mm coating thickness

Performance level 3, corresponding to a breakthrough time of >60 min according to EN ISO 374-1 natural rubber/natural latex (NR) - 0.5 mm coating thickness

Performance level 1, corresponding to a breakthrough time of >10 min 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:

Tightly fitting safety goggles (cage goggles) (e.g. EN 166) and face shield.

#### Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

#### General safety and hygiene measures:

Contact with eyes and skin must be avoided. Avoid inhalation of vapour. Avoid contact with skin and eyes. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Hands and/or face should be washed before breaks and at the end of the shift. When using, do not eat, drink or smoke.

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## 9. Physical and Chemical Properties

Form:	liquid
Colour:	colourless to yellow
Odour:	of formic acid, pungent odour
Odour threshold:	not determined

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pH value:	2.2 (10 g/l, 20 °C)	
pKA:	3.70 (20 °C)	(OECD Guideline 112)
Melting point:	-13 °C	
Boiling point:	107.3 °C	
Flash point:	65 °C Refers to Formic acid 85%	(DIN 51755)
Information on: formic acid		
Flash point:	49.5 °C	(Directive 92/69/EEC, A.9, closed cup)
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Evaporation rate:	Value can be approximated from Henry's Law Constant or vapor pressure.	
Flammability (solid/gas):	Combustible liquid.	(derived from flash - and boiling point)
Lower explosion limit:	14.9 %(V)	
Upper explosion limit:	47.6 %(V)	
Ignition temperature:	500 °C	(DIN 51794)
Self heating ability:	not applicable, the product is a liquid	
Explosion hazard:	Based on the chemical structure there is no indication of explosive properties.	
Fire promoting properties:	Based on its structural properties the product is not classified as oxidizing.	
Vapour pressure:	24.2 hPa (20 °C) 112.5 hPa (50 °C)	
Density:	1.195 g/cm3 (20 °C) 1.20 g/cm3 (15 °C) 1.173 g/cm3 (40 °C) 1.161 g/cm3 (50 °C) 1.15 g/cm3 (55 °C)	
Relative vapour density (air):	Water content greater than 10%.	
Solubility in water:	miscible (20 °C, 1,013.25 hPa)	

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Miscibility with water:	miscible in all proportions	
Solubility (qualitative) solvent(s):	organic solvents	
	miscible	
Partitioning coefficient n-octanol/water (log Pow):	-1.9	
	(23 °C; pH value: 5)	
Adsorption/water - soil:	KOC: < 17.8; log KOC: 1.25	(OECD Guideline 121)
Surface tension:	71.5 mN/m	(OECD Guideline 115)
	(20 °C; 1 g/l)	
Viscosity, dynamic:	1.70 mPa.s	
	(20 °C)	
	0.92 mPa.s	
	(55 °C)	
Viscosity, kinematic:	1.42 mm <sup>2</sup> /s	
	(20 °C)	
	0.8 mm <sup>2</sup> /s	
	(55 °C)	
Molar mass:	46.03 g/mol	

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## 10. Stability and Reactivity

Conditions to avoid:  
Temperature: > 30 °C

Substances to avoid:  
bases, non-coated metals, base metals

Corrosion to metals: No corrosive effect on metal.

Hazardous reactions:  
Reacts with alkalies. Reacts with amines. Exothermic reaction.

Hazardous decomposition products:  
carbon monoxide

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

Chemical stability:  
Slow decomposition possible.

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## 11. Toxicological Information

### Acute toxicity

Assessment of acute toxicity:  
Of moderate toxicity after single ingestion. Of pronounced toxicity after short-term inhalation.

Experimental/calculated data:  
LD50 rat (oral): 730 mg/kg (OECD Guideline 401)

LC50 rat (by inhalation): 7.85 mg/l 4 h (BASF-Test)

(dermal): No data available. Study scientifically not justified.

### **Irritation**

Assessment of irritating effects:  
Highly corrosive! Damages skin and eyes.

Experimental/calculated data:  
Skin corrosion/irritation rabbit: Corrosive. (OECD Guideline 404)  
Literature data.

Serious eye damage/irritation: Study scientifically not justified. As the product corrodes the skin, it can be expected to have a similar effect on the eyes also.

### **Respiratory/Skin sensitization**

Assessment of sensitization:  
Skin sensitizing effects were not observed in animal studies.

Experimental/calculated data:  
Buehler test guinea pig: Non-sensitizing. (OECD Guideline 406)

### **Germ cell mutagenicity**

Assessment of mutagenicity:  
No mutagenic effect was found in various tests with bacteria and mammalian cell culture. The substance was not mutagenic in an insect test.

### **Carcinogenicity**

Assessment of carcinogenicity:  
In long-term studies in rats and mice in which the substance was given by feed, a carcinogenic effect was not observed. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### **Reproductive toxicity**

Assessment of reproduction toxicity:  
The results of animal studies gave no indication of a fertility impairing effect. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### **Developmental toxicity**

Assessment of teratogenicity:  
No indications of a developmental toxic / teratogenic effect were seen in animal studies. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.



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

Assessment of STOT single:

Corrosive to the respiratory tract.

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

Assessment of repeated dose toxicity:

No substance-specific organotoxicity was observed after repeated administration to animals. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### **Aspiration hazard**

No aspiration hazard expected.

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## **12. Ecological Information**

### **Ecotoxicity**

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms. Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

The product gives rise to pH shifts.

Toxicity to fish:

LC50 (96 h) 130 mg/l, *Brachydanio rerio* (OECD 203; ISO 7346; 92/69/EWG, C.1, static)

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

LC50 (96 h) 68 mg/l, *Leuciscus idus* (DIN 38412 Part 15, static)

The details of the toxic effect relate to the nominal concentration. After neutralization, it is no longer toxic.

Aquatic invertebrates:

EC50 (48 h) 365 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. The statement of the toxic effect relates to the analytically determined concentration.

EC50 (48 h) 32.19 mg/l, *Daphnia magna* (Directive 79/831/EEC, static)

The details of the toxic effect relate to the nominal concentration. The product will cause changes in the pH value of the test system. The result refers to an unneutralized sample.

Aquatic plants:

EC50 (72 h) 1,240 mg/l (growth rate), *Selenastrum capricornutum* (OECD Guideline 201, static)

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

EC50 (72 h) 32.64 mg/l (growth rate), *Scenedesmus subspicatus* (DIN 38412 Part 9, static)  
The details of the toxic effect relate to the nominal concentration. The product will cause changes in the pH value of the test system. The result refers to an unneutralized sample.

Microorganisms/Effect on activated sludge:  
EC10 (13 d) 72 mg/l, activated sludge, domestic, non-adapted (other, aerobic)

Chronic toxicity to fish:  
Study scientifically not justified.

Chronic toxicity to aquatic invertebrates:  
No observed effect concentration (21 d),  $\geq 100$  mg/l, *Daphnia magna* (OECD Guideline 211, semistatic)  
The statement of the toxic effect relates to the analytically determined concentration. The product will cause changes in the pH value of the test system. The result refers to a neutralized sample. No effects at the highest test concentration.

Assessment of terrestrial toxicity:  
Study scientifically not justified.

Other terrestrial non-mammals:  
LD50 (18 h)  $\geq 111$  mg/kg, *Agelaius phoeniceus*  
Literature data.

## **Mobility**

Assessment transport between environmental compartments:  
The substance will not evaporate into the atmosphere from the water surface.  
Adsorption to solid soil phase is not expected.

## **Persistence and degradability**

Elimination information:  
100 % DOC reduction (9 d) (OECD 301E/92/69/EWG, C.4-B) (aerobic, municipal sewage treatment plant effluent)

Assessment of stability in water:  
According to structural properties, hydrolysis is not expected/probable.

Information on Stability in Water (Hydrolysis):  
 $t_{1/2} > 5$  d (50 °C, pH value 4), (Directive 92/69/EEC, C.7, pH 4)

$t_{1/2} > 5$  d (50 °C, pH value 7), (Directive 92/69/EEC, C.7, pH 7)

$t_{1/2} > 5$  d (50 °C, pH value 9), (Directive 92/69/EEC, C.7, pH 9)

## **Bioaccumulation potential**

Bioaccumulation potential:  
Significant accumulation in organisms is not to be expected.

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### 13. Disposal Information

Incinerate in suitable incineration plant, observing local authority regulations.

Do not discharge into waterways or sewer systems without proper authorization.

A waste code in accordance with the European waste catalog (EWC) cannot be specified, due to dependence on the usage.

The waste code in accordance with the European waste catalog (EWC) must be specified in cooperation with disposal agency/manufacturer/authorities.

Contaminated packaging:

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

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### 14. Transportation Information

#### **Domestic transport:**

Hazard class: 8  
Packing group: II  
ID number: UN 1779  
Hazard label: 8, 3  
Proper shipping name: FORMIC ACID

#### **Further information**

Hazchem Code: 2W  
IERG Number: 36

#### **Sea transport**

IMDG

Hazard class: 8  
Packing group: II  
ID number: UN 1779  
Hazard label: 8, 3  
Marine pollutant: NO  
Proper shipping name: FORMIC ACID

#### **Air transport**

IATA/ICAO

Hazard class: 8  
Packing group: II  
ID number: UN 1779  
Hazard label: 8, 3  
Proper shipping name: FORMIC ACID

#### **Transport in bulk according to Annex II of MARPOL and the IBC Code**

Regulation: IBC  
Shipment approved: 1

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Pollution name:	Formic acid (over 85%)
Pollution category:	Y
Ship Type:	3

## 15. Regulatory Information

Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013  
 OSHA 1994 and relevant regulations  
 Environmental Quality Act, 1974

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

## 16. Other Information

Date of Preparation / Date of Revision: 30.08.2025

Information Source and References:

This SDS is prepared using data and information saved in our internal IT-based system and supplied by our company's service providers.

Key Abbreviations:

ATE - Acute Toxicity Estimates  
 GHS - Globally Harmonized System  
 IATA / ICAO - International Air Transport Association / International Civil Aviation Organization  
 IBC - Intermediate Bulk Container  
 IMDG - International Maritime Dangerous Goods  
 LC - Lethal Concentration  
 LD - Lethal Dose  
 OECD - Organisation for Economic Co-operation and Development  
 OEL - Occupational Exposure Limit  
 OSHA - Occupational Safety and Health Act  
 STOT - Specific Target Organ Toxicity

flue gas desulphurization rubber industry textile industry leather industry plastics processing industry

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

Unst. Expl.	Unstable explosives
Expl. 1.1	Explosives division 1.1
Expl. 1.2	Explosives division 1.2
Expl. 1.3	Explosives division 1.3
Expl. 1.4	Explosives division 1.4
Expl. 1.5	Explosives division 1.5
Expl. 1.6	Explosives division 1.6
Flam. Gas 1	Flammable gases category 1
Flam. Gas 2	Flammable gases category 2
Flam. Aerosol 1	Flammable aerosols category 1
Flam. Aerosol 2	Flammable aerosols category 2
Flam. Liq. 1	Flammable liquids category 1

Flam. Liq. 2	Flammable liquids category 2
Flam. Liq. 3	Flammable liquids category 3
Flam. Sol. 1	Flammable solids category 1
Flam. Sol. 2	Flammable solids category 2
Ox. Gas 1	Oxidizing gases category 1
Ox. Liq. 1	Oxidizing liquids category 1
Ox. Liq. 2	Oxidizing liquids category 2
Ox. Liq. 3	Oxidizing liquids category 3
Ox. Sol. 1	Oxidizing solids category 1
Ox. Sol. 2	Oxidizing solids category 2
Ox. Sol. 3	Oxidizing solids category 3
Press. Gas	Gases under pressure
Self-react. A	Self-reactive chemicals type A
Self-react. B	Self-reactive chemicals type B
Self-react. CD	Self-reactive chemicals type C and D
Self-react. EF	Self-reactive chemicals type E and F
Self-react. G	Self-reactive chemicals type G
Pyr. Liq. 1	Pyrophoric liquids category 1
Pyr. Sol. 1	Pyrophoric solids category 1
Self-heat. 1	Self-heating chemicals category 1
Self-heat. 2	Self-heating chemicals category 2
Water-react. 1	Chemicals which, if in contact with water, emits flammable gases category 1
Water-react. 2	Chemicals which, if in contact with water, emits flammable gases category 2
Water-react. 3	Chemicals which, if in contact with water, emits flammable gases category 3
Org. Perox. A	Organic peroxides type A
Org. Perox. B	Organic peroxides type B
Org. Perox. CD	Organic peroxides type C and D
Org. Perox. EF	Organic peroxides type E and F
Org. Perox. G	Organic peroxides type G
Met. Corr. 1	Corrosive to metals category 1
Acute Tox. 1	Acute toxicity category 1
Acute Tox. 2	Acute toxicity category 2
Acute Tox. 3	Acute toxicity category 3
Acute Tox. 4	Acute toxicity category 4
Skin Corr. 1A	Skin corrosion or irritation category 1A
Skin Corr. 1B	Skin corrosion or irritation category 1B
Skin Corr. 1C	Skin corrosion or irritation category 1C
Skin Irrit. 2	Skin corrosion or irritation category 2
Eye Dam. 1	Serious eye damage or eye irritation category 1
Eye Irrit. 2	Serious eye damage or eye irritation category 2
Resp. Sens. 1	Respiratory sensitization category 1
Skin Sens. 1	Skin sensitization category 1
Muta. 1A	Germ cell mutagenicity category 1A
Muta. 1B	Germ cell mutagenicity category 1B
Muta. 2	Germ cell mutagenicity category 2
Carc. 1A	Carcinogenicity category 1A
Carc. 1B	Carcinogenicity category 1B
Carc. 2	Carcinogenicity category 2
Repr. 1A	Reproductive toxicity category 1A
Repr. 1B	Reproductive toxicity category 1B
Repr. 2	Reproductive toxicity category 2

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Lact.	Effect on or via lactation
STOT SE 1	Specific target organ toxicity – single exposure category 1
STOT SE 2	Specific target organ toxicity – single exposure category 2
STOT SE 3	Specific target organ toxicity – single exposure category 3
STOT RE 1	Specific target organ toxicity – repeated exposure category 1
STOT RE 2	Specific target organ toxicity – repeated exposure category 2
Asp. Haz.	Aspiration hazard category 1
Aquatic Acute 1	Hazardous to the aquatic environment – acute hazard category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – chronic hazard category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – chronic hazard category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – chronic hazard category 3
Aquatic Chronic 4	Hazardous to the aquatic environment – chronic hazard category 4
Ozone	Hazardous to the ozone layer category 1

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

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