

# Safety data sheet

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BASF Safety data sheet according to UN GHS 4th rev.

Date / Revised: 29.07.2020 Version: 5.0

Product: Meltatox® 385 EC

(ID no. 30656972/SDS\_CPA\_00/EN)

Date of print 05.10.2022

## 1. Identification

## **Product identifier**

# Meltatox® 385 EC

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

Relevant identified uses: fungicide

# Details of the supplier of the safety data sheet

Company:
BASF SE
67056 Ludwigshafen
GERMANY
Operating Division Crop Protection

Telephone: +49 621 60-27777

E-mail address: Produktinformation-Pflanzenschutz@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

Flam. Liq. 4 Skin Corr./Irrit. 2 Eye Dam./Irrit. 1 Repr. 2 (unborn child)

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STOT RE (Liver) 2 Aquatic Acute 2

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 (GHS)

#### Pictogram:



# Signal Word:

Danger

#### Hazard Statement:

H227 Combustible liquid. H315 Causes skin irritation.

H318 Causes serious eye damage.

H361 Suspected of damaging the unborn child.

H373 May cause damage to organs (Liver) through prolonged or repeated

exposure.

H401 Toxic to aquatic life.

# Precautionary Statement:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

# Precautionary Statements (Prevention):

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and

understood.

P210 Keep away from heat, hot surfaces, sparks, open flames and other

ignition sources. No smoking.

P260 Do not breathe mist.

P264 Wash contaminated body parts thoroughly after handling.

P280 Wear protective gloves/clothing/eye protection.

## Precautionary Statements (Response):

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P303 + P352 IF ON SKIN (or hair): Wash with plenty of soap and water.

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.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P370 + P378 In case of fire: Use water spray, dry powder, foam or carbon dioxide for

extinction.

Precautionary Statements (Storage): P405 Store locked up.

P403 Store in a well-ventilated place.

Precautionary Statements (Disposal):

P501 Dispose of contents and container to hazardous or special waste

collection point.

Labeling of special preparations (GHS):

May produce an allergic reaction. Contains: Dodemorph

According to UN GHS criteria

Hazard determining component(s) for labelling: Dodemorph, Acetic acid

#### Other hazards

#### According to UN GHS criteria

See section 12 - Results of PBT and vPvB assessment.

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.

# 3. Composition/Information on Ingredients

# **Substances**

Not applicable

#### **Mixtures**

#### Chemical nature

crop protection product, fungicide, Emulsifiable concentrate (EC)

Hazardous ingredients (GHS)

According to UN GHS criteria

dodemorph (ISO); 4-cyclododecyl-2,6-dimethylmorpholine

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Content (W/W): 31,63 % CAS Number: 1593-77-7 EC-Number: 216-474-9

Skin Corr./Irrit. 1C Eye Dam./Irrit. 1 Skin Sens. 1A

Repr. 2 (unborn child) STOT RE (Liver) 2 (oral)

Aquatic Acute 1 Aquatic Chronic 1

H317, H361, H373, H314, H400, H410

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified; [A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C9 thro ugh C16 and boiling in the range of approximately 165 oC to 290 oC (330 oF to 554 oF).]

Content (W/W): < 25 % CAS Number: 64742-94-5 Asp. Tox. 1 Aquatic Acute 2 Aquatic Chronic 2 H304, H401, H411

Polyether-modified trisiloxane

Content (W/W): < 15 %

Acute Tox. 4 (Inhalation - vapour)

CAS Number: 134180-76-0

Acute Tox. 5 (oral)

Acute Tox. 4 (dermal)

Eye Dam./Irrit. 2A

Aquatic Acute 2

Aquatic Acute 2 Aquatic Chronic 2

H319, H312, H332, H303, H401, H411

2-Methylnaphthalene

Content (W/W): < 10 % CAS Number: 91-57-6 EC-Number: 202-078-3 Acute Tox. 4 (oral) Aquatic Chronic 2 H302, H411

Acetic acid

Content (W/W): < 10 % CAS Number: 64-19-7 EC-Number: 200-580-7 INDEX-Number: 607-002-00-6 Flam. Liq. 3 Skin Corr./Irrit. 1A Eye Dam./Irrit. 1 H226, H314

Specific concentration limit:
Skin Corr./Irrit. 2: 10 - < 25 %
Eye Dam./Irrit. 2: 10 - < 25 %
Skin Corr./Irrit. 1A: >= 90 %
Skin Corr./Irrit. 1B: 25 - < 90 %

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 Content (W/W): < 10 %</td>
 Acute Tox. 4 (oral)

 CAS Number: 90-12-0
 Aquatic Chronic 2

 EC-Number: 201-966-8
 H302, H411

Alcohols, C9-11-iso-, C10-rich, ethoxylated

Content (W/W): < 3 % Acute Tox. 5 (oral)
CAS Number: 78330-20-8 Eye Dam./Irrit. 2B
CLP C&L Number: 022119549526-31-0000 H320, H303, H402

Biphenyl

Content (W/W): < 3 % Acute Tox. 5 (oral)
CAS Number: 92-52-4 Skin Corr./Irrit. 2
EC-Number: 202-163-5 Eye Dam./Irrit. 2A

INDEX-Number: 601-042-00-8 STOT SE 3 (irr. to respiratory syst.)

Aquatic Acute 1
Aquatic Chronic 3
M-factor acute: 1
M-factor chronic: 1

H319, H315, H303, H335, H412, H400

Phenanthrene

Content (W/W): < 0,5 % Acute Tox. 4 (oral)
CAS Number: 85-01-8 Aquatic Acute 1
EC-Number: 201-581-5 Aquatic Chronic 1
M-factor acute: 10
M-factor chronic: 1
H302, H400, H410

Naphthalene

Content (W/W): < 0,5 % Flam. Sol. 2 CAS Number: 91-20-3 Acute Tox. 4 (oral)

EC-Number: 202-049-5 Carc. 2

INDEX-Number: 601-052-00-2

Aquatic Acute 1

Aquatic Chronic 1

M-factor acute: 1

M-factor chronic: 1

H228, H302, H351, H400, H410

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## 4. First-Aid Measures

## Description of first aid measures

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:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

# Most important symptoms and effects, both acute and delayed

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., (Further) symptoms and / or effects are not known so far

# Indication of any immediate medical attention and special treatment needed

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

# 5. Fire-Fighting Measures

#### Extinguishing media

Suitable extinguishing media:

foam, dry powder, carbon dioxide, water spray

## Special hazards arising from the substance or mixture

Carbon monoxide, Carbon dioxide, nitrogen oxides

The substances/groups of substances mentioned can be released in case of fire.

#### Advice for fire-fighters

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. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Keep containers cool by spraying with water if exposed to fire. In case of fire and/or explosion do not breathe fumes.

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## 6. Accidental Release Measures

## Personal precautions, protective equipment and emergency procedures

Do not breathe vapour/spray. Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

# **Environmental precautions**

Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

## Methods and material for containment and cleaning up

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

For large amounts: Dike spillage. Pump off product.

Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

# 7. Handling and Storage

# Precautions for safe handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

Protection against fire and explosion:

Vapours may form ignitable mixture with air. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

## Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds.

Further information on storage conditions: Keep away from heat. Protect from direct sunlight.

Storage stability:

Storage duration: 24 Months

Protect from temperatures below: 10 °C

The product can crystallize below the limit temperature.

Protect from temperatures above: 40 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

#### 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.

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# 8. Exposure Controls/Personal Protection

# **Control parameters**

Components with occupational exposure limits

64-19-7: Acetic acid 92-52-4: Biphenyl

100-51-6: Benzyl alcohol

64742-94-5: Solvent naphtha (petroleum), heavy arom.

90-12-0: 1-Methylnaphthalene 91-57-6: 2-Methylnaphthalene

## **Exposure controls**

## Personal protective equipment

### Respiratory protection:

Suitable respiratory protection for lower concentrations or short-term effect: Combination filter for gases/vapours of organic, inorganic, acid inorganic and alkaline compounds (e.g. EN 14387 Type ABEK).

#### Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc.

#### Eye protection:

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

## 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

The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

# 9. Physical and Chemical Properties

# Information on basic physical and chemical properties

Form: liquid
Colour: yellow
Odour: characteristic

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Odour threshold:

Not determined due to potential

health hazard by inhalation.

approx. 4 - 6 pH value:

> (1 %(m), 20 °C) (as an emulsion)

crystallization temperature:

The product has not been tested.

Boiling point: approx. 158,1 °C

(965 mbar)

The data given are those of the

active ingredient.

Flash point: 84,6 °C

(ASTM D93)

Evaporation rate:

not applicable

Flammability: not applicable

Lower explosion limit:

As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with

the intended use.

Upper explosion limit:

As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with

the intended use. approx. 262 °C

Ignition temperature: Vapour pressure:

The product has not been tested.

Density: approx. 1,0 g/cm3

(approx. 20 °C)

Relative vapour density (air):

not applicable

Solubility in water: emulsifiable

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

not applicable

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

Viscosity, dynamic: 75 mPa.s

(approx. 20 °C)

Viscosity, kinematic: approx. 28,2 mm2/s

(approx. 40 °C)

Explosion hazard: not explosive

Fire promoting properties: not fire-propagating

#### Other information

Other Information:

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If necessary, information on other physical and chemical parameters is indicated in this section.

# 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

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

### Conditions to avoid

See SDS section 7 - Handling and storage.

## Incompatible materials

Substances to avoid:

strong acids, strong bases, strong oxidizing agents

# **Hazardous decomposition products**

Hazardous decomposition products:

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

# 11. Toxicological Information

# Information on toxicological effects

## Acute toxicity

Assessment of acute toxicity:

Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation.

Experimental/calculated data: LD50 rat (oral): > 2.000 mg/kg

No mortality was observed.

LC50 rat (by inhalation): > 5 mg/l 4 h

An aerosol was tested.

LD50 rat (dermal): > 2.000 mg/kg

No mortality was observed.

#### Irritation

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#### Assessment of irritating effects:

May cause severe damage to the eyes. Skin contact causes irritation.

#### Experimental/calculated data:

Skin corrosion/irritation rabbit: Irritant.

Serious eye damage/irritation rabbit: Risk of serious damage to eyes.

#### Respiratory/Skin sensitization

#### Assessment of sensitization:

There is no evidence of a skin-sensitizing potential.

#### Experimental/calculated data:

Mouse Local Lymph Node Assay (LLNA): Skin sensitizing effects were not observed in animal studies.

### Germ cell mutagenicity

#### Assessment of mutagenicity:

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

# Information on: Benzyl alcohol

Assessment of mutagenicity:

The substance was mutagenic in various cell culture test systems; however, these results could not be confirmed in tests with mammals.

# Information on: Naphthalene Assessment of mutagenicity:

The substance was not mutagenic in bacteria. The substance was mutagenic in a mammalian cell culture test system. The substance was not mutagenic in a test with mammals. Literature data.

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## Carcinogenicity

## Assessment of carcinogenicity:

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

# Information on: Naphthalene Assessment of carcinogenicity:

In long-term studies in rats and mice in which the substance was given by inhalation, a carcinogenic effect was observed. EU-classification The substance was classified as a group 3 carcinogen by the German MAK-Commission (substances for which a suspicion of a carcinogenic potential exists). IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans).

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### Reproductive toxicity

Assessment of reproduction toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

#### Developmental toxicity

Assessment of teratogenicity:

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

Information on: dodemorph (ISO); 4-cyclododecyl-2,6-dimethylmorpholine

Assessment of teratogenicity:

Indications of possible developmental toxicity/teratogenicity were seen in animal studies.

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## Specific target organ toxicity (single exposure)

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

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

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

Assessment of repeated dose toxicity:

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

Information on: dodemorph (ISO); 4-cyclododecyl-2,6-dimethylmorpholine

Assessment of repeated dose toxicity:

Prolonged or repeated exposure may cause liver damage.

Information on: Benzyl alcohol

Assessment of repeated dose toxicity:

The substance may cause damage to the central nervous system after repeated ingestion of high doses.

Information on: Acetic acid

Assessment of repeated dose toxicity:

After repeated administration the prominent effect is the induction of corrosion.

Information on: Naphthalene

Assessment of repeated dose toxicity:

The substance may cause damage to the olfactory epithelium after repeated inhalation.

Information on: Biphenyl

Assessment of repeated dose toxicity:

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The substance may cause damage to the kidney after repeated ingestion of high doses, as shown in animal studies.

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#### Aspiration hazard

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

No aspiration hazard expected.

## Other relevant toxicity information

Misuse can be harmful to health.

# 12. Ecological Information

## **Toxicity**

Assessment of aquatic toxicity:

Toxic to aquatic life.

Toxicity to fish:

LC50 (96 h) 3,61 mg/l, Oncorhynchus mykiss

Aquatic invertebrates:

EC50 (48 h) 4,18 mg/l, Daphnia magna

Aquatic plants:

EC50 (72 h) 3,59 mg/l, Pseudokirchneriella subcapitata

EC10 (72 h) 2,23 mg/l, Pseudokirchneriella subcapitata

No observed effect concentration (72 h) 1,03 mg/l, Pseudokirchneriella subcapitata

## Persistence and degradability

Assessment biodegradation and elimination (H2O):

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

Information on: dodemorph (ISO); 4-cyclododecyl-2,6-dimethylmorpholine Assessment biodegradation and elimination (H2O): Not readily biodegradable (by OECD criteria).

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## Bioaccumulative potential

Assessment bioaccumulation potential:

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

Information on: dodemorph (ISO); 4-cyclododecyl-2,6-dimethylmorpholine

Bioaccumulation potential:

Bioconcentration factor: 469 - 746, Oncorhynchus mykiss

Accumulation in organisms is not to be expected.

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## Mobility in soil

Assessment transport between environmental compartments:

Adsorption in soil: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: dodemorph (ISO); 4-cyclododecyl-2,6-dimethylmorpholine

Assessment transport between environmental compartments:

Adsorption in soil: Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

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#### Results of PBT and vPvB assessment

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

#### Other adverse effects

The product does not contain substances that are listed in the Montreal Protocol on substances that deplete the ozone layer.

## **Additional information**

Other ecotoxicological advice:

Do not discharge product into the environment without control.

# 13. Disposal Considerations

#### Waste treatment methods

Must be sent to a suitable incineration plant, observing local regulations.

Contaminated packaging:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

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# 14. Transport Information

# **Land transport**

**ADR** 

Not classified as a dangerous good under transport regulations

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

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

user

**RID** 

Not classified as a dangerous good under transport regulations

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

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

user

# **Inland waterway transport**

ADN

Not classified as a dangerous good under transport regulations

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

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

user:

Transport in inland waterway vessel

Not evaluated

## Sea transport

**IMDG** 

Not classified as a dangerous good under transport regulations

UN number: Not applicable UN proper shipping name: Not applicable

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Not applicable Transport hazard class(es): Packing group: Not applicable Environmental hazards: Not applicable Special precautions for None known

user

## Air transport

#### IATA/ICAO

Not classified as a dangerous good under transport regulations

UN number: Not applicable UN proper shipping name: Not applicable Transport hazard class(es): Not applicable Packing group: Not applicable Not applicable Environmental hazards: None known

Special precautions for

user

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

Not evaluated Regulation: Shipment approved: Not evaluated Pollution name: Not evaluated Pollution category: Not evaluated Ship Type: Not evaluated

# 15. Regulatory Information

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

To avoid risks to man and the environment, comply with the instructions for use.

## 16. Other Information

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

Flam. Liq. Flammable liquids Skin Corr./Irrit. Skin corrosion/irritation

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

Repr. Reproductive toxicity

STOT RE Specific target organ toxicity — repeated exposure Aquatic Acute Hazardous to the aquatic environment - acute

Skin Sens. Skin sensitization

Aquatic Chronic Hazardous to the aquatic environment - chronic

Asp. Tox. Aspiration hazard

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Acute Tox.	Acute toxicity
STOT SE	Specific target organ toxicity — single exposure
Flam. Sol.	Flammable solids
Carc.	Carcinogenicity
H317	May cause an allergic skin reaction.
H361	Suspected of damaging the unborn child.
H373	May cause damage to organs (Liver) through prolonged or repeated exposure (oral).
H314	Causes severe skin burns and eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H304	May be fatal if swallowed and enters airways.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H319	Causes serious eye irritation.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H303	May be harmful if swallowed.
H302	Harmful if swallowed.
H226	Flammable liquid and vapour.
H320	Causes eye irritation.
H402	Harmful to aquatic life.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.
H228	Flammable solid.
H351	Suspected of causing cancer.

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.