

## Safety Data Sheet

according to UK REACH Regulation

### Acetic Acid 10 %

Revision date: 18.03.2024

Product code: 13431.xxxxx

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

### 1.1. Product identifier

Acetic Acid 10 %

UFI: R466-3163-R003-9EVK

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

#### Use of the substance/mixture

Use as laboratory reagent. The product is intended for research, analysis and scientific education.

#### Uses advised against

Any non-intended use.

### 1.3. Details of the supplier of the safety data sheet

Company name: MORPHISTO GmbH  
Street: Schumannstr. 142/144  
Place: D-63069 Offenbach  
Telephone: +49 (0) 69 / 400 3019-60      Telefax: +49 (0) 69 / 400 3019-64  
E-mail: info@morphisto.de  
Contact person: Morphisto GmbH  
E-mail: gefahrstoffmanagement@morphisto.de  
Internet: http://www.morphisto.de

### 1.4. Emergency telephone number:

Poison Information Center Mainz, Germany, Tel: +49(0)6131/19240

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### GB CLP Regulation

Skin Irrit. 2; H315

Eye Irrit. 2; H319

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

#### GB CLP Regulation

Signal word: Warning

Pictograms:



#### Hazard statements

H315 Causes skin irritation.  
H319 Causes serious eye irritation.

#### Precautionary statements

P280 Wear protective gloves and eye/face protection.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.

#### Labelling of packages where the contents do not exceed 125 ml

Signal word: Warning

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#### Pictograms:



#### 2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulating and toxic (PBT) or very persistent and very bioaccumulating (vPvB) at levels of 0.1% or higher. Ecological information: The substance/mixture does not contain any components that are considered to be hazardous according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in amounts of 0.1 % or more have endocrine disrupting properties. Toxicological information: The substance/mixture does not contain any components that are to be classified according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1 % or more have endocrine disrupting properties.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Relevant ingredients

| CAS No  | Chemical name                          |              |                  | Quantity    |
|---------|--|--------------|------------------|-------------|
|         | EC No                                  | Index No     | REACH No         |             |
|         | Classification (GB CLP Regulation)     |              |                  |             |
| 64-19-7 | Acetic acid...%                        |              |                  | 10 - < 15 % |
|         | 200-580-7                              | 607-002-00-6 | 01-2119475328-30 |             |
|         | Flam. Liq. 3, Skin Corr. 1A; H226 H314 |              |                  |             |

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

##### Specific Conc. Limits, M-factors and ATE

| CAS No  | EC No  | Chemical name   | Quantity    |
|---------|--|-----------------|-------------|
|         | Specific Conc. Limits, M-factors and ATE   |                 |             |
| 64-19-7 | 200-580-7  | Acetic acid...% | 10 - < 15 % |
|         | inhalation: LC50 = >40 mg/l (vapours); oral: LD50 = 3530 mg/kg Skin Corr. 1A; H314: >= 90 - 100 Skin Corr. 1B; H314: >= 25 - < 90 Skin Irrit. 2; H315: >= 10 - < 25 Eye Irrit. 2; H319: >= 10 - < 25 |                 |             |

##### Further Information

This product contains no substances of very high concern (SVHC) (>0,1%) which are included in the Candidate List according to Article 59 of REACH.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Remove contaminated, saturated clothing immediately.

##### After inhalation

Provide fresh air. In case of respiratory tract irritation, consult a physician.

##### After contact with skin

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with: Water. In case of skin irritation, seek medical treatment.

##### After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

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rinsing. In case of eye irritation consult an ophthalmologist.

#### After ingestion

Rinse mouth thoroughly with water. Call a physician immediately. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting.

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

No information available.

#### 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

Carbon dioxide (CO<sub>2</sub>). Dry extinguishing powder. alcohol resistant foam. Atomized water.

##### Unsuitable extinguishing media

High power water jet.

#### 5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO<sub>2</sub>).

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

#### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Co-ordinate fire-fighting measures to the fire surroundings.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### General advice

Provide adequate ventilation.

Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes.

Wear personal protection equipment. (See section 8.)

#### 6.2. Environmental precautions

Discharge into the environment must be avoided.

#### 6.3. Methods and material for containment and cleaning up

##### Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Treat the recovered material as prescribed in the section on waste disposal.

Clean contaminated objects and areas thoroughly observing environmental regulations.

#### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### Advice on safe handling

Wear suitable protective clothing. (See section 8.)

Use extractor hood (laboratory).

##### Advice on protection against fire and explosion

Usual measures for fire prevention.

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**Advice on general occupational hygiene**

Always close containers tightly after the removal of product. When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work.

**Further information on handling**

Avoid contact with skin, eyes and clothes.  
 General protection and hygiene measures: See section 8.

**7.2. Conditions for safe storage, including any incompatibilities**
**Requirements for storage rooms and vessels**

Keep container tightly closed in a cool, well-ventilated place.  
 Suitable material for Container: polyethylene. Glass.

**Hints on joint storage**

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances. Food and animal feedingstuff, Food and fodder.

**Further information on storage conditions**

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.  
 Recommended storage temperature: 15-25 °C  
 Protect against: frost. UV-radiation/sunlight. heat. Humidity

**7.3. Specific end use(s)**

Use as laboratory reagent.

**SECTION 8: Exposure controls/personal protection**
**8.1. Control parameters**
**Exposure limits (EH40)**

| CAS No  | Substance   | ppm | mg/m <sup>3</sup> | fibres/ml | Category      | Origin |
|---------|-------------|-----|-------------------|-----------|---------------|--------|
| 64-19-7 | Acetic acid | 10  | 25                |           | TWA (8 h)     | WEL    |
|         |             | 20  | 50                |           | STEL (15 min) | WEL    |

**DNEL/DMEL values**

| CAS No  | Substance                | Exposure route | Effect | Value                |
|---------|--------------------------|----------------|--------|----------------------|
| 64-19-7 | Acetic acid...%          |                |        |                      |
|         | Worker DNEL, long-term   | inhalation     | local  | 25 mg/m <sup>3</sup> |
|         | Worker DNEL, acute       | inhalation     | local  | 25 mg/m <sup>3</sup> |
|         | Consumer DNEL, long-term | inhalation     | local  | 25 mg/m <sup>3</sup> |
|         | Consumer DNEL, acute     | inhalation     | local  | 25 mg/m <sup>3</sup> |

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#### PNEC values

| CAS No   | Substance       |             |
|--|-----------------|-------------|
| Environmental compartment                        |                 | Value       |
| 64-19-7  | Acetic acid...% |             |
| Freshwater                                       |                 | 3,058 mg/l  |
| Freshwater (intermittent releases)               |                 | 30,58 mg/l  |
| Marine water                                     |                 | 0,306 mg/l  |
| Freshwater sediment                              |                 | 11,36 mg/kg |
| Marine sediment                                  |                 | 1,136 mg/kg |
| Micro-organisms in sewage treatment plants (STP) |                 | 85 mg/l     |
| Soil   |                 | 0,47 mg/kg  |

#### 8.2. Exposure controls



##### Appropriate engineering controls

Use extractor hood (laboratory).

##### Individual protection measures, such as personal protective equipment

##### Eye/face protection

Suitable eye protection: Eye glasses with side protection EN 166

##### Hand protection

Pull-over gloves of rubber. EN ISO 374

Suitable material:

(penetration time (maximum wearing period):  $\geq$  8 h):

Butyl rubber. (0,5 mm)

Protective clothing should be selected, depending on concentration and quantity of the hazardous substance.

The chemical resistance of the products should be discussed with suppliers.

##### Skin protection

Suitable protective clothing: Lab apron.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

##### Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at: generation/formation of aerosols, exceeding exposure limit values

Suitable respiratory protective equipment: Combination filtering device (EN 14387) - Type EP2/3

Details on the requirements for use and maximum concentrations can be found in the "Rules for the use of respiratory protective devices" (BGR 190). The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

##### Environmental exposure controls

No special measures are necessary.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                 |            |
|-----------------|------------|
| Physical state: | liquid     |
| Colour:         | colourless |
| Odour:          | stinging   |

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|   |                           |
|---|---------------------------|
| Melting point/freezing point:                             | not determined            |
| Boiling point or initial boiling point and boiling range: | not determined            |
| Flammability:   | not determined            |
| Lower explosion limits:                                   | not determined            |
| Upper explosion limits:                                   | not determined            |
| Flash point:  | >100 °C                   |
| Auto-ignition temperature:                                | not determined            |
| Decomposition temperature:                                | not determined            |
| pH-Value (at 20 °C):                                      | 2-3                       |
| Viscosity / kinematic:                                    | not determined            |
| Water solubility:   | miscible.                 |
| Partition coefficient n-octanol/water:                    | not determined            |
| Vapour pressure:  | not determined            |
| Density (at 20 °C):                                       | 1,0-1,1 g/cm <sup>3</sup> |
| Relative vapour density:                                  | not determined            |

**9.2. Other information****Information with regard to physical hazard classes**Explosive properties  
noneOxidizing properties  
none**Other safety characteristics**

|                      |                |
|----------------------|----------------|
| Solid content:       | not determined |
| Sublimation point:   | not determined |
| Softening point:     | not determined |
| Pour point:          | not determined |
| Viscosity / dynamic: | not determined |
| Flow time:           | not determined |

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No information available.

**10.2. Chemical stability**

The product is chemically stable under recommended conditions of storage, use and temperature.

**10.3. Possibility of hazardous reactions**

Reacts with : Substances that form flammable gases when in contact with water. Oxidizing agents, strong peroxides. Hydrogenium peroxide. Nitric acid. Perchlorsäure. Kaliumperoxid.

**10.4. Conditions to avoid**

Keep away from heat. Protect from moisture.

**10.5. Incompatible materials**

Substances that form flammable gases when in contact with water. Oxidizing agents, strong peroxides. Hydrogenium peroxide. Nitric acid.

**10.6. Hazardous decomposition products**In case of fire may be liberated: Carbon monoxide. Carbon dioxide (CO<sub>2</sub>).**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in GB CLP Regulation**

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**Acute toxicity**

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

**ATEmix calculated**

ATE (oral) &gt; 2000 mg/kg; ATE (dermal) &gt; 2000 mg/kg; ATE (inhalation vapour) &gt; 20 mg/l; ATE (inhalation dust/mist) &gt; 5 mg/l

| CAS No  | Chemical name           |               |          |         |                |        |
|---------|-------------------------|---------------|----------|---------|----------------|--------|
|         | Exposure route          | Dose          |          | Species | Source         | Method |
| 64-19-7 | Acetic acid...%         |               |          |         |                |        |
|         | oral                    | LD50<br>mg/kg | 3530     | Rat     | GESTIS         |        |
|         | inhalation (4 h) vapour | LC50          | >40 mg/l | Rat     | suppliers SDS. |        |

**Irritation and corrosivity**

Causes skin irritation.

Causes serious eye irritation.

**Sensitising effects**

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

**Carcinogenic/mutagenic/toxic effects for reproduction**

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

**STOT-single exposure**

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

**STOT-repeated exposure**

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

**Aspiration hazard**

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

**11.2. Information on other hazards**
**Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

**Other information**

This preparation is hazardous in the sense of regulation (EC) No 1272/2008 [GHS].

**SECTION 12: Ecological information**
**12.1. Toxicity**

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

| CAS No  | Chemical name            |               |           |         |                      |              |
|---------|--------------------------|---------------|-----------|---------|----------------------|--------------|
|         | Aquatic toxicity         | Dose          | [h]   [d] | Species | Source               | Method       |
| 64-19-7 | Acetic acid...%          |               |           |         |                      |              |
|         | Acute fish toxicity      | LC50<br>mg/l  | >300      | 96 h    | Oncorhynchus mykiss  | ECHA Dossier |
|         | Acute algae toxicity     | ErC50<br>mg/l | >300      | 72 h    | Skeletonema costatum | ECHA Dossier |
|         | Acute crustacea toxicity | EC50<br>mg/l  | >300      | 48 h    | Daphnia magna        | ECHA Dossier |

**12.2. Persistence and degradability**

The product has not been tested.

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| CAS No  | Chemical name   |       |   |                |
|---------|---|-------|---|----------------|
|         | Method  | Value | d | Source         |
|         | Evaluation  |       |   |                |
| 64-19-7 | Acetic acid...%   |       |   |                |
|         | Other guideline   | 95%   | 5 | suppliers SDS. |
|         | Easily biodegradable (concerning to the criteria of the OECD) |       |   |                |

#### **12.3. Bioaccumulative potential**

The product has not been tested.

#### **Partition coefficient n-octanol/water**

| CAS No  | Chemical name   | Log Pow |
|---------|-----------------|---------|
| 64-19-7 | Acetic acid...% | -0,17   |

#### **BCF**

| CAS No  | Chemical name   | BCF  | Species | Source |
|---------|-----------------|------|---------|--------|
| 64-19-7 | Acetic acid...% | 3,16 |         |        |

#### **12.4. Mobility in soil**

No information available.

#### **12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

#### **12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

#### **12.7. Other adverse effects**

No information available.

#### **Further information**

Do not allow to enter into surface water or drains.

## SECTION 13: Disposal considerations

### **13.1. Waste treatment methods**

#### **Disposal recommendations**

Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal.

Non-contaminated packages may be recycled.

According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

#### **List of Wastes Code - residues/unused products**

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

#### **List of Wastes Code - used product**

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

#### **List of Wastes Code - contaminated packaging**

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste



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**Contaminated packaging**

Handle contaminated packages in the same way as the substance itself.

**SECTION 14: Transport information****Land transport (ADR/RID)**

|  |  |
|--|--|
| <b>14.1. UN number or ID number:</b>     | No dangerous good in sense of this transport regulation. |
| <b>14.2. UN proper shipping name:</b>    | No dangerous good in sense of this transport regulation. |
| <b>14.3. Transport hazard class(es):</b> | No dangerous good in sense of this transport regulation. |
| <b>14.4. Packing group:</b>              | No dangerous good in sense of this transport regulation. |

**Inland waterways transport (ADN)**

|  |  |
|--|--|
| <b>14.1. UN number or ID number:</b>     | No dangerous good in sense of this transport regulation. |
| <b>14.2. UN proper shipping name:</b>    | No dangerous good in sense of this transport regulation. |
| <b>14.3. Transport hazard class(es):</b> | No dangerous good in sense of this transport regulation. |
| <b>14.4. Packing group:</b>              | No dangerous good in sense of this transport regulation. |

**Marine transport (IMDG)**

|  |  |
|--|--|
| <b>14.1. UN number or ID number:</b>     | No dangerous good in sense of this transport regulation. |
| <b>14.2. UN proper shipping name:</b>    | No dangerous good in sense of this transport regulation. |
| <b>14.3. Transport hazard class(es):</b> | No dangerous good in sense of this transport regulation. |
| <b>14.4. Packing group:</b>              | No dangerous good in sense of this transport regulation. |

**Air transport (ICAO-TI/IATA-DGR)**

|  |  |
|--|--|
| <b>14.1. UN number or ID number:</b>     | No dangerous good in sense of this transport regulation. |
| <b>14.2. UN proper shipping name:</b>    | No dangerous good in sense of this transport regulation. |
| <b>14.3. Transport hazard class(es):</b> | No dangerous good in sense of this transport regulation. |
| <b>14.4. Packing group:</b>              | No dangerous good in sense of this transport regulation. |

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

Not restricted

**14.7. Maritime transport in bulk according to IMO instruments**

Not restricted

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40

Information according to Directive 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

**Additional information**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly hazardous to water

**15.2. Chemical safety assessment**

For the following substances of this mixture a chemical safety assessment has been carried out:

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**SECTION 16: Other information**
**Changes**

This data sheet contains changes from the previous version in section(s): 1,3,7,11,12,14,15,16.

Rev. 1,0; 10.02.2010, Initial release

Rev. 2,0; 06.09.2016, Changes in chapter: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16.

Rev. 2,1; 31.05.2023; general adjustment(s)

Rev. 2,2; 18.03.2024; Change of transport labelling

**Abbreviations and acronyms**

Flam. Liq: Flammable liquids

Skin Corr: Skin corrosion

Skin Irrit: Skin irritation

Eye Irrit: Eye irritation

ADR: Accord européen sur le transport des marchandises dangereuses par Route

CAS Chemical Abstracts Service

DNEL: Derived No Effect Level

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

LOAEL: Lowest observed adverse effect level

LOAEC: Lowest observed adverse effect concentration

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOAEL: No observed adverse effect level

NOAEC: No observed adverse effect level

NTP: National Toxicology Program

N/A: not applicable

OSHA: Occupational Safety and Health Administration

PNEC: predicted no effect concentration

PBT: Persistent bioaccumulative toxic

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail )

SARA: Superfund Amendments and Reauthorization Act

SVHC: substance of very high concern

TRGS Technische Regeln fuerGefahrstoffe

TSCA: Toxic Substances Control Act

VOC: Volatile Organic Compounds

VwVwS: Verwaltungsvorschrift wassergefaehrdender Stoffe

WGK: Wassergefaehrdungsklasse

**Classification for mixtures and used evaluation method according to GB CLP Regulation**

| Classification      | Classification procedure |
|---------------------|--------------------------|
| Skin Irrit. 2; H315 | Calculation method       |
| Eye Irrit. 2; H319  | Calculation method       |

**Relevant H and EUH statements (number and full text)**

|      |  |
|------|--|
| H226 | Flammable liquid and vapour.             |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation.                  |

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H319 Causes serious eye irritation.

#### Further Information

Classification according EC regulation 1272/2008 (CLP): - Classification procedure:

Health hazards: Calculation method.

Environmental hazards: Calculation method.

Physical hazards: On basis of test data and / or calculated and / or estimated.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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*(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*