

Safety Data Sheet

according to UK REACH Regulation

Picric Acid, pure (moistened with water)

Revision date: 10.07.2023

Product code: 12358.xxxxx

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

1.1. Product identifier

Picric Acid, pure (moistened with water)

UFI: Y073-01K5-3003-H4MC

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

Use of the substance/mixture

Use as laboratory reagent.

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

Desen. Expl. 1; H206
Acute Tox. 3; H311
Acute Tox. 3; H331
Acute Tox. 4; H302

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

picric acid

Signal word: Danger

Pictograms:



Hazard statements

H206 Fire, blast or projection hazard; increased risk of explosion if desensitising agent is reduced.
H302 Harmful if swallowed.
H311+H331 Toxic in contact with skin or if inhaled.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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| | |
|----------------|---|
| P212 | Avoid heating under confinement or reduction of the desensitising agent. |
| P230 | Keep wetted with water. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P370+P380+P375 | In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |

Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger

Pictograms:



Hazard statements

H206-H311+H331

Precautionary statements

P210-P212-P230-P280-P370+P380+P375

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

Chemical characterization

Picric acid (stabilized with about 40% water)

Hazardous components

| CAS No | Chemical name | | | Quantity |
|---------|--|--------------|----------|----------|
| | EC No | Index No | REACH No | |
| | Classification (GB CLP Regulation) | | | |
| 88-89-1 | picric acid | | | 50<70 % |
| | 201-865-9 | 609-009-00-X | | |
| | Expl. 1.1, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3; H201 H331 H311 H301 | | | |

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 | | |
| 88-89-1 | 201-865-9 | picric acid | 50<70 % |
| | inhalation: ATE = 3 mg/l (vapours); inhalation: LC50 = 0,51 mg/l (dusts or mists); dermal: LD50 = 300,1 mg/kg; oral: LD50 = 200 mg/kg | | |

Further Information

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

SECTION 4: First aid measures

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4.1. Description of first aid measures**General information**

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. Call a physician immediately. In case of accident by inhalation: remove casualty to fresh air and keep at rest. Immediately call a POISON CENTER/doctor/. Put victim at rest, cover with a blanket and keep warm. In case of breathing difficulties administer oxygen. In case of irregular breathing or respiratory arrest provide artificial respiration.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Call a physician immediately.

After contact with eyes

After eye contact: Rinse immediately carefully and thoroughly with eye-bath or water. In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water. Immediately call a POISON CENTER/doctor/. Never give anything by mouth to an unconscious person or a person with cramps.

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

Eyes: burning, yellowing of the conjunctiva maybe (delayed) conjunctivitis, lesion of the cornea Skin: local yellow coloring; Irritation i.a. only after massive or repeated contact of at damaged skin, allergic reactions (including generalized!) possible. Inhalation: burning of the mucous membranes, sneezing, rhinitis, coughing, in extreme cases risk of lung injury Resorptive impact possible with massive exposure. Ingestion: mostly fast spontaneous vomiting caused bitter taste; persistent nausea, vomit, diarrhea, abdominal pain.

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**

Water spray jet, Carbon dioxide (CO₂), Foam, Extinguishing powder

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 (CO₂). Nitrogen oxides (NO_x).
Explosion hazard: Dry material is highly explosive. If the material especially larger amounts is affected by a fire, evacuate the area and let the material burn. If not affected by fire keep moist.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

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General advice

Remove all sources of ignition. Provide adequate ventilation. Avoid dust formation. Do not breathe dust. Avoid contact with skin, eyes and clothes. Use personal protection equipment. Remove persons to safety.

Provide adequate ventilation. Avoid exposure.

Do not breathe gas/fumes/vapour/spray. Remove all sources of ignition.

Wear personal protection equipment. (See section 8.)

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Explosion risk. Discharge into the environment must be avoided.

6.3. Methods and material for containment and cleaning up**Other information**

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal. Put the spilled material in a non-metallic, watertight container. Keep spilled material moist with water. Do not allow to dry! Absorb the remaining spillage with a moistened fleece. Keep the fleece in a non-metallic, watertight container with water added. Dispose of spilled material and absorbent fleece according to official 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**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Avoid dust formation. Do not breathe dust. Avoid exposure. Keep away from sources of ignition - No smoking.

Wear suitable protective clothing. (See section 8.)

Provide adequate ventilation as well as local exhaustion at critical locations.

Use extractor hood (laboratory).

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

Vapours can form explosive mixtures with air. Handle with care - avoid bumps, friction and impact.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff. Always close containers tightly after the removal of product. Remove contaminated clothing immediately and dispose off safely. Wash contaminated clothing prior to re-use. Used working clothes should not be worn outside the work area. Street clothing should be stored separately from work clothing.

Further information on handling

Always remove adhering product residues from lids and closures before closing the product.

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

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Recommended storage temperature: 15-25 °C

Storage: Just as long as necessary. Unsuitable materials for Container: metal.

Hints on joint storage

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances. Do not store together with: Gas. Aerosol dispensers. Explosives. Flammable liquids. Oxidizing liquids. Oxidizing solids. ammonium nitrate. Non-combustible toxic substances. Radioactive substances. Infectious substances.

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Further information on storage conditions

Keep away from heat. Protect from sunlight.

Keep material always moist. Do not let material run dry.

The purchasing data for each container must be recorded. Material that is older than 2 years should be eliminated. Check every 6 months and add water as needed. Turn container upside down every three months in order to distribute the water.

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 ³ | fibres/ml | Category | Origin |
|---------|-------------|-----|-------------------|-----------|---------------|--------|
| 88-89-1 | Picric acid | - | 0.1 | | TWA (8 h) | WEL |
| | | - | 0.3 | | STEL (15 min) | WEL |

8.2. Exposure controls

Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust.

Provide adequate ventilation as well as local exhaustion at critical locations. Use extractor hood (laboratory).

Individual protection measures, such as personal protective equipment
Eye/face protection

Wear eye/face protection. Suitable eye protection: Tightly sealed safety glasses. EN 166

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Pull-over gloves of rubber. EN ISO 374

 Breakthrough time \geq 8h

Suitable material:

FKM (fluororubber). Thickness of glove material: (0,7 mm)

Butyl rubber. Thickness of glove material: (0,5 mm)

Before using check leak tightness / impermeability. In the case of wanting to use the gloves again, clean them before taking off and air them well.

Skin protection

Use of protective clothing. Suitable protective clothing: Lab apron.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

exceeding exposure limit values

aerosol or mist generation.

Insufficient ventilation.

insufficient absorption.

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Suitable respiratory protective equipment:
 particulates filter device (DIN EN 143). Type: P3
 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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|-----------------------|
| Physical state: | solid |
| Colour: | yellow |
| Odour: | characteristic |
| Melting point/freezing point: | 121 °C |
| Boiling point or initial boiling point and boiling range: | not determined |
| Flammability: | not applicable |
| Lower explosion limits: | not determined |
| Upper explosion limits: | not determined |
| Flash point: | 150 °C |
| Auto-ignition temperature: | 300 °C |
| Decomposition temperature: | not determined |
| pH-Value: | not determined |
| Viscosity / kinematic: | not determined |
| Water solubility: (at 20 °C) | completely miscible |
| Solubility in other solvents Acetone. Ethanol. Ether. | |
| Partition coefficient n-octanol/water: | not determined |
| Vapour pressure: (at 195 °C) | 1 hPa |
| Density (at 20 °C): | 1,8 g/cm ³ |
| Bulk density: | not determined |
| Relative vapour density: | not determined |

9.2. Other information

Information with regard to physical hazard classes

| | |
|---|-------------------|
| Explosive properties Risk of explosion in case of drying up. | |
| Sustaining combustion: | No data available |
| Self-ignition temperature | |
| Solid: | not determined |
| Gas: | not applicable |
| Oxidizing properties Not oxidising. | |

Other safety characteristics

| | |
|--------------------------|----------------|
| Evaporation rate: | not determined |
| Solvent separation test: | not determined |
| Solvent content: | not determined |
| Solid content: | not determined |
| Viscosity / dynamic: | not determined |
| Flow time: | not determined |

SECTION 10: Stability and reactivity

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10.1. Reactivity

Flammable. Explosive. Stable under normal storage and handling conditions.

10.2. Chemical stability

Unstable explosives. Conditions leading to instability: Warning: This material is classified as an explosive in the dry state. The solid is wetted with > 30% water. Unstable at temperatures above 160 ° C. Conditions to avoid: picric acid forms complexes with metals (lead, iron, zinc, nickel, copper, etc.) salts, which are sensitive to heat, friction or shock and are considered as dangerous. Contact of picric acid with concrete can lead to the formation of friction sensitive calcium salt.

10.3. Possibility of hazardous reactions

The product is stable under storage at normal ambient temperatures.

10.4. Conditions to avoid

Do not dry up the product. Explosive when dry. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Keep away from heat.

10.5. Incompatible materials

Reducing agent Oxidizing agents. Aluminium. Ammonia. Base. Heavy metal salts. fluorine. potassium.

10.6. Hazardous decomposition products

 In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO₂). Nitrogen oxides (NO_x).

SECTION 11: Toxicological information
11.1. Information on hazard classes as defined in GB CLP Regulation
Acute toxicity

Toxic in contact with skin.

Toxic if inhaled.

Harmful if swallowed.

ATEmix calculated

ATE (oral) 333,3 mg/kg; ATE (dermal) 500,2 mg/kg; ATE (inhalation vapour) 5,000 mg/l; ATE (inhalation dust/mist) 0,8500 mg/l

| CAS No | Chemical name | | | | |
|---------|----------------------------|------------------|---------|--------|--------|
| | Exposure route | Dose | Species | Source | Method |
| 88-89-1 | picric acid | | | | |
| | oral | LD50 200 mg/kg | Rat | RTECS | |
| | dermal | LD50 300,1 mg/kg | | | |
| | inhalation vapour | ATE 3 mg/l | | | |
| | inhalation (4 h) dust/mist | LC50 0,51 mg/l | | | |

Irritation and corrosivity

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

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.

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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.

Further information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. Special hazards arising from the substance or mixture!

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

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

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

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. Do not allow to enter into soil/subsoil. Do not allow uncontrolled discharge of product into the environment.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

If recycling is not possible, waste must be disposed in accordance with local authority requirements.

Waste disposal must be performed by trained personnel.

Keep material always moist.

Indefinable residues and contaminated packaging residues should be disposed under code: 160403.

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

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150202 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; absorbents, filter materials, wiping cloths and protective clothing; absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by hazardous substances; hazardous waste

Contaminated packaging

Hazardous waste according to Directive 2008/98/EC (waste framework directive). Handle contaminated packages in the same way as the substance itself.

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

14.1. UN number or ID number: UN 1344
14.2. UN proper shipping name: Trinitrophenol (Picric acid), wetted
14.3. Transport hazard class(es): 4.1
14.4. Packing group: I
 Hazard label: 4.1



Classification code: D
 Limited quantity: 0
 Excepted quantity: E0
 Transport category: 1
 Tunnel restriction code: B

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1344
14.2. UN proper shipping name: Trinitrophenol (Picric acid), wetted
14.3. Transport hazard class(es): 4.1
14.4. Packing group: I
 Hazard label: 4.1



Classification code: D
 Limited quantity: 0
 Excepted quantity: E0

Marine transport (IMDG)

14.1. UN number or ID number: UN 1344
14.2. UN proper shipping name: Trinitrophenol (Picric acid), wetted
14.3. Transport hazard class(es): 4.1
14.4. Packing group: I
 Hazard label: 4.1



Marine pollutant: NO
 Special Provisions: 28
 Limited quantity: 0
 Excepted quantity: E0
 EmS: F-B, S-J

Air transport (ICAO-TI/IATA-DGR)

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| 14.1. UN number or ID number: | UN 1344 |
| 14.2. UN proper shipping name: | Trinitrophenol (Picric acid), wetted |
| 14.3. Transport hazard class(es): | 4.1 |
| 14.4. Packing group: | I |
| Hazard label: | 4.1 |



| | |
|--|-----------|
| Special Provisions: | A40 |
| Limited quantity Passenger: | Forbidden |
| Passenger LQ: | Forbidden |
| Excepted quantity: | E0 |
| IATA-packing instructions - Passenger: | 451 |
| IATA-max. quantity - Passenger: | 1 kg |
| IATA-packing instructions - Cargo: | 451 |
| IATA-max. quantity - Cargo: | 15 kg |

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Warning: Flammable solids. Refer to section 6-8

14.7. Maritime transport in bulk according to IMO instruments

not relevant

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 75

Information according to 2012/18/EU (SEVESO III): H2 ACUTE TOXIC

Additional information

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

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D): 2 - obviously hazardous to water

Skin resorption/Sensitization: Permeates easily through outer skin and causes poisoning.

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information
Changes

This data sheet contains changes from the previous version in section(s): 1,2,4,5,6,7,8,9,10,11,12,13,15,16.

28.10.2012 Rev. 1.00 Initial release

02.10.2015 Rev. 2.00 Changes in chapter: 1-16

10.07.2023; Rev. 3,0; general adjustment(s) revision of the classification

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Abbreviations and acronyms

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
CLP: Classification, labelling and Packaging
REACH: Registration, Evaluation and Authorization of Chemicals
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
UN: United Nations
CAS: Chemical Abstracts Service
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration
ATE: Acute toxicity estimate
LL50: Lethal loading, 50%
EL50: Effect loading, 50%
EC50: Effective Concentration 50%
ErC50: Effective Concentration 50%, growth rate
NOEC: No Observed Effect Concentration
BCF: Bio-concentration factor
PBT: persistent, bioaccumulative, toxic
vPvB: very persistent, very bioaccumulative
ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Regulations concerning the international carriage of dangerous goods by rail
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation)

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intérieures)

EmS: Emergency Schedules

MFAG: Medical First Aid Guide

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container

For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>**Classification for mixtures and used evaluation method according to GB CLP Regulation**

| Classification | Classification procedure |
|----------------------|--------------------------|
| Desen. Expl. 1; H206 | On basis of test data |
| Acute Tox. 3; H311 | Calculation method |
| Acute Tox. 3; H331 | Calculation method |
| Acute Tox. 4; H302 | Calculation method |

Relevant H and EUH statements (number and full text)

| | |
|-----------|--|
| H201 | Explosive; mass explosion hazard. |
| H206 | Fire, blast or projection hazard; increased risk of explosion if desensitising agent is reduced. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H311 | Toxic in contact with skin. |
| H311+H331 | Toxic in contact with skin or if inhaled. |
| H331 | Toxic if inhaled. |

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. 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.

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