

## **1. Identification of the substance/preparation and of the company/undertaking**

### *Identification of the product*

Trichloroacetic acid

### *Manufacturer/supplier identification*

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## **2. Hazards identification**

### **Classification of the substance or mixture**

#### **Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]**

Skin corrosion/irritation (Category 1A)

Serious eye damage/eye irritation (Category 1)

Specific target organ toxicity - single exposure (Category 3), respiratory tract irritation

Short-term (acute) aquatic hazard (Category 1)

Long-term (chronic) aquatic hazard (Category 1)

### **Label elements**

Pictogram



Signal word    Danger

### **Hazard statement(s)**

H314      Causes severe skin burns and eye damage.

H335      May cause respiratory irritation.

H410      Very toxic to aquatic life with long lasting effects.

### **Precautionary statement(s)**

P261      Do not breathe dust.

P264      Wash skin thoroughly after handling.

P271      Use only outdoors or in a well-ventilated area.

P273      Avoid release to the environment.

P280      Wear eye protection/ face protection.

P301 + P330 + P331    IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353    IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 + P310    IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

P305 + P351 + P338    IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P363      Wash contaminated clothing before reuse.

P391      Collect spillage.

P403 + P233      Store in a well-ventilated place. Keep container tightly closed.

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P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

Supplemental Hazard Statements  
none

### **3. Composition/information on ingredients**

#### *Synonyms*

Trichloroacetic acid

CAS-No.: 76-03-9

*M*: 163.38 g/mol

Molecular formula: C<sub>2</sub>HCl<sub>3</sub>O<sub>2</sub>

### **4. First aid measures**

#### **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### **In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

#### **In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### **If swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### **5. Fire-fighting measures**

#### **Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### **Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

### **6. Accidental release measures**

#### **Personal precautions**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

#### **Environmental precautions**

Do not let product enter drains. Discharge into the environment must be avoided.

#### **Methods and materials for containment and cleaning up**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### **7. Handling and storage**

#### **Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

#### **Conditions for safe storage**

Keep container tightly closed in a dry and well-ventilated place.

### **8. Exposure controls/personal protection**

#### **Appropriate engineering controls**

General industrial hygiene practice.

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## **Personal protective equipment**

### **Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

### **Body Protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### **Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

## **9. Physical and chemical properties**

**Form:** crystals

**Colour:** colorless

**Odour:** no data available

**pH value:** no data available

**Melting point:** 54°C~56 °C

**Boiling point:** 197°C

**Ignition temperature:** no data available

**Flash point:** no data available

**Autoignition temperature:** no data available

### **Explosion limits**

**lower:** no data available

**upper:** no data available

**Density :** 1.63 g/cm<sup>3</sup>

**Bulk density:** no data available

### **Solubility in**

**water (20 °C) :** soluble in water

**diluted acids (20 °C) :** no data available

**Thermal decomposition:** no data available

## **10. Stability and reactivity**

### **Chemical stability**

stable under recommended storage conditions.

### **Conditions to avoid**

Exposure to moisture. Heat.

**Materials to avoid**

Strong oxidizing agents, Bases

**Hazardous decomposition products**

no data available

**11. Toxicological information****Acute toxicity**

LD50 Oral - Rat -3320 mg/kg

**Skin corrosion/irritation**

Skin – Rabbit-5s

Result: Corrosive

**Serious eye damage/eye irritation**

No data available

**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Specific target organ toxicity - single exposure**

no data available

**Specific target organ toxicity - repeated exposure**

no data available

**Aspiration hazard**

no data available

**12. Ecological information****Toxicity**

Toxicity to daphnia and other aquatic invertebrates     static test EC50 - Daphnia magna (Water flea) -1,460 - 2,000 mg/l - 48 h

**Persistence and degradability**

Zahn-Wellens - Exposure time 27 d

Result: 5% - Not readily biodegradable.

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**PBT and vPvB assessment**

no data available

**Other adverse effects**

no data available

**13. Disposal considerations****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

## **14. Transport information**

### **ADR/RID**

UN-Number: 1839    Class: 8    Packing group: II  
Proper shipping name: TRICHLOROACETIC ACID, SOLID

### **IMDG**

UN-Number: 1839    Class: 8    Packing group: II  
Proper shipping name: TRICHLOROACETIC ACID, SOLID  
Marine pollutant : yes

### **IATA**

UN-Number: 1839    Class: 8    Packing group: II  
Proper shipping name: TRICHLOROACETIC ACID, SOLID

## **15. Regulatory information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

## **16. Other information**

General update.

*Regional representation:*

This information is given on the authorised Safety Data Sheet for your country.