

# Safety Data Sheet

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BIOSYNTH®

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## 1 Identification of the substance

### 1.1 Product identifier

Identification of the substance 2,2,2-Trichloroacetaldehyde - anhydrous

#### Additional identification

Catalogue Number FT74876

REACH No. A registration number is not available for this substance as the substance or its uses are exempted from registration or the annual tonnage does not require a registration.

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

Identified uses other biochemicals

Restriction on use not for food or drug use, for laboratory use only

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

Company Biosynth Ltd  
8&9 Old Station Business Park  
COMPTON RG20 6NE

Phone +44 1635 578444

Mail customerservice@biosynth.com

### 1.4 Emergency telephone number

Phone 24hr/7days: +44 118 338 8269

## 2 Hazards identification

### 2.1 Classification of the substance or mixture

#### Physical Hazards

not classified

#### Health Hazards

Skin irritation (Category 2), H315

Eye irritation (Category 2), H319

Acute toxicity oral (Category 3), H301

Specific target organ toxicity, single exposure (Category 3), H335

#### Environmental Hazards

not classified

### 2.2 Label elements

#### Regulatory List

EC1272/08 Regulation (EC) 2020/8785 (GHS/CLP)

#### Symbol

GHS06 skull and crossbones

#### Pictogram



#### Signal Word

Danger Danger

#### Hazard Statement

H301 Toxic if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

#### Precautionary Statement

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P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P501	Dispose of contents / container in accordance with local / regional / national / international regulations.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P321	Specific treatment (see on this label).
P330	Rinse mouth.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove casualty to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Remove contact lenses, if possible.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P362+P364	Take off contaminated clothing and wash it before reuse.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

### 2.3 Other hazards

Caution! To the best of our knowledge the toxicological properties of this material have not been thoroughly investigated.

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## 3 Composition/information on ingredients

### Substance related information

<i>Substance name</i>	2,2,2-Trichloroacetaldehyde - anhydrous
<i>Synonyms</i>	
<i>Cas No.</i>	[75-87-6]
<i>Formula</i>	C <sub>2</sub> HCl <sub>3</sub> O

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## 4 First aid measures

### 4.1 Description of first aid measures

#### First Aid: Eye

Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Consult an ophthalmologist.

#### First Aid: Skin

Wash immediately with plenty of water and soap for at least 15 minutes. Remove contaminated clothing and shoes. Wash contaminated clothes before reuse. Call a physician.

#### First Aid: Ingestion

Wash out mouth with water provided person is conscious. Call a physician.

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

#### Hints for Physician: Symptoms

See Section 11 for additional information on health hazards

### 4.3 Indication of any immediate medical attention and special treatment needed

#### First Aid: Inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Call a physician.

#### Hints for Physician: Treatment

Treat symptomatically.

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## 5 Firefighting measures

### 5.1 Extinguishing Media

#### Suitable

foam, dry extinguishing powder, carbon dioxide (CO<sub>2</sub>), water spray jet

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

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

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**Hazards During Fire-Fighting**

toxic fumes

**5.3 Fire-Fighting/Further Advice**

Do not inhale explosion and combustion gases. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely.

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**6 Accidental release measures****6.1 Personal Precautions, protective equipment and emergency procedures**

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Provide adequate ventilation.

**6.2 Environmental Precautions**

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Ensure all waste water is collected and treated via a waste water treatment plant.

**6.3 Methods and material for containment and cleaning up**

not available

**6.4 Further Accidental Release Measures**

Collect in closed and suitable containers for disposal. Clear contaminated areas thoroughly. Ventilate affected area.

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**7 Handling and storage****7.1 Precautions for safe handling****Handling advice**

Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Avoid prolonged or repeated exposure. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling.

**7.2 Conditions for safe storage, including any incompatibilities****Storage temperature**

store at 10°C - 25°C

**Storage condition**

close container well

**Storage Requirements**

Keep container tightly closed in an upright position to prevent leakage. Keep away from incompatible substances. Keep container tightly closed when not in use.

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

No Specific end use

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**8 Exposure controles/personal protection****8.1 Exposure limit values**

Does not contain any substances with occupational exposure limits.

**8.2 Exposure controles****Industrial Hygiene**

Mechanical exhaust required. Safety shower and eye shower.

**8.3 Personal Protective Equipment****Respiratory Protection**

Wear NIOSH/MSHA or European Standard EN 149 approved respirator.

**Hand Protection**

Wear compatible chemical-resistant gloves to prevent skin exposure.

**Eye Protection**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA.

**Body Protection**

Wear compatible chemical-resistant gloves and clothing to prevent skin exposure.

**Advice on Safe Handling**

Wash contaminated clothing before reuse. Wear appropriate protective clothing to prevent exposure.

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**9 Physical and chemical properties**

**9.1 Information on basic Physical and chemical color properties***Form*

clear liquid

*Phase Transition Solid/Liquid*

-57.5 °C

*Phase Transition Liquid/Gas*

97.8 °C

*Density*1.512 g/cm<sup>3</sup>*Flash Point*

167 °C

**9.2 Other information***Molar Mass*

147.39 g/mol

**10 Stability and reactivity****10.1 Reactivity**

No Data Available

**10.2 Chemical stability**

No Data Available

**10.3 Possibility of hazardous reaction**

No Data Available

**10.4 Conditions to Avoid (SDS)**

incompatible materials

**10.5 Incompatible materials**

strong oxidizers

**10.6 Hazardous decomposition products**carbon dioxide (CO<sub>2</sub>), hydrogen chloride (HCl), carbon monoxide**11 Toxicological information****11.1 Information on toxicological effects****Acute Toxicity**

LD50 intraperitoneal, Mouse, 600 mg/kg

**Other Relevant Toxicity Information**

Only selected Registry of toxic effects of chemical substances (RTECS) data is presented here. For the complete information, consult current entry in RTECS.

**12 Ecological Information****12.1 Toxicity**

<b>Acute toxicity versus Fishing</b>	Test Type	Species	Method	Exposure Time	Value in standard unit mg/l
	No data available				
<b>Acute toxicity in aquatic plants</b>	Test Type	Species	Method	Exposure Time	Value in standard unit mg/l
	No data available				
<b>Acute toxicity versus Daphnia and others aquatic invertebrates</b>	Test Type	Species	Method	Exposure Time	Value in standard unit mg/l
	No data available				

**12.2 Persistence and degradability**

Remarks : no data available

**12.3 Bioaccumulative potential**

Remarks : no data available

**12.4 Mobility in soil**

no data available

**12.5 Results of PBT and vPvB assessment**

no data available

**12.6 Other adverse effects**

no data available

**13 Disposal considerations****Advice on Disposal and Packaging***Advice on Disposal*

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and Exhaust air. Dispose of waste according to laws applicable.

*Advice on Packaging*

not available

**14 Transport information**

	Road Transport(ADR/GGVS)	Air Transport(IATA)
<b>14.1 UN number</b>	2075	2075
<b>14.2 UN proper shipping name</b>	CHLORAL, ANHYDROUS, STABILIZED	CHLORAL, ANHYDROUS, STABILIZED
<b>14.3 Transport hazard class(es)</b>	6.1	6.1
<b>14.4 Packing group</b>	II	II
<b>14.5 Environmental hazard class(es)</b>	Not Dangerous Goods	Not Dangerous Goods
<b>14.6 Special precautions for user</b>	Transport in bulk or in tanks: see long text.	Not applicable
<b>14.7 Transport in bulk according to Annex 11 of MARPOL and the IBC code</b>	Not applicable	Not applicable

**15 Other regulations****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
2,2,2-Trichloroacetaldehyde - anhydrous	-----	-----	-----

*Regulatory List*

AREC, EINECS, ENCS, IECSC, INSQ, NZIOC, TCSI, TSCA

**15.2 Chemical safety assessment**

No chemical safety assessment has been carried out.

**16 Additional information**

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