

SAFETY DATA SHEET

according to 1907/2006/EC, Article 3

Version no. : 2.2
Prepared on : 17.11.2025
Revised on : 20.07.2026

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

1.1 Product identifiers

Product name 3% Dichloroacetic Acid in Dichloromethane
Product Number PSR48532
Brand PureSynth research chemicals
CAS No. NA

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

Identified uses : PurOligo

1.3 Details of the supplier of the safety data sheet

Company PureSynth Research Chemicals GmbH.
64683 Einhausen Marie-Curie-StraBe. 3, Germany

1.4 Emergency telephone number

Worldwide Helpline No.: 1800-8908-260

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Skin Irrit. 2	H315
Eye Dam. 1	H318
Carc. 2	H351
Repr. 1B	H360FD
STOT SE 3	H336
Aquatic Acute 1	H400

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word Danger

Hazard statement(s)

H315	Causes skin irritation.
H318	Causes serious eye damage.
H336	May cause drowsiness or dizziness
H351	Suspected of causing cancer
H360FD	May damage fertility. May damage the unborn child.
H400	Very toxic to aquatic life.
H362	May cause harm to breast-fed children.

Precautionary statement(s)

P202	Do not handle until all safety precautions have been read and understood.
P273	Avoid release to the environment.
P280	Wear protective gloves, protective clothing, eye protection, face protection.
P302+P352	IF ON SKIN: Wash with plenty of 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.
P308+P313	IF exposed or concerned: Get medical advice/attention.
Supplemental Hazard Statements	none

2.3 Other hazards: This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher

SECTION 3: Composition / information on ingredients

3.1 Substances

Common names & Synonyms	Mol. formula	CAS number
-	-	-
Component	Classification	Concentration
Dichloromethane	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336 Met. Corr. 1, H290	93 – 98%
Dichloroacetic acid	Acute Tox. 3 (Dermal), H311 Skin Corr. 1A, H314 Eye Dam. 1, H318 Carc. 2, H351 Repr. 1B, H360FD Lact., H362 STOT RE 2, H373 Aquatic Acute 1, H400	2 – 7%

SECTION 4: First aid measures

Description of first aid measures

General advice	Consult a doctor. Show this safety data sheet to the doctor in attendance.
If inhaled	Move person to fresh air and ensure comfortable breathing. Give oxygen or artificial respiration if necessary. Ask for medical advice.
In case of skin contact	Take off immediately all contaminated clothing and wash it before reuse. Gently wash with plenty of soap and water. Ask for medical advice.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes. Immediately call a POISON CENTER/doctor. Remove contact lenses, if possible. Continue rinsing.
If swallowed	Drink water immediately (max. 2 cups). Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. Do not give an unconscious person anything to drink.
Most important symptoms and effects, both acute and delayed	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Fire fighting measures

Extinguishing media	Carbon dioxide. Dry powder. Alcohol-resistant foam. Water spray
Suitable extinguishing media	
Special hazards arising from the substance or mixture	Non- combustible. May form flammable/explosive vapour-air mixture. Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.
Advice for fire-fighters	Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.
Further information	No data available

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures	Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. Do not breathe vapours, spray. Avoid substance contact. Ensure adequate ventilation, observe emergency procedures, consult an expert. Evacuate area. For personal protection see section 8.
Environmental precautions	Do not allow to enter drains or water courses. Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material. Dispose of properly. Clean up affected area.
Methods and materials for containment and cleaning up	
Reference to other sections	For disposal see section 13.

SECTION 7: Handling and storage

Precautions for safe handling	Use under laboratory hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols. For precautions see section 2.2.
Hygiene measures	Take off immediately all contaminated clothing and wash it before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Apply preventive skin protection.
Conditions for safe storage, including any incompatibilities	Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons Store at 5 – 25 °C Storage class (TRGS 510)
Specific end use(s)	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls / Personal protection

Control parameters	Ingredients with workplace control parameters
Exposure controls	
Personal protective equipment:	
Eye / face protection	Wear eye protection. Wear closed safety glasses. EN 166. Use face shield for larger quantities.
Skin protection	Wear protective gloves. 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.
Body Protection	Wear protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection	Wear respiratory protection. Required when vapours/aerosols are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type ABEK.
Control of environmental exposure	Do not let product enter drains. Prevent further leakage or spillage if safe to do so.

SECTION 9: Physical and chemical properties

Appearance	Form: Liquid Colour: No data available
Odour	No data available
pH - Value	No data available
Density	1.325 g/cm ³
Boiling Point	40 °C
Melting Point	-97 °C
Solubility in water	completely soluble
Flash point	No data available
Vapour pressure	470.9 hPa
Auto-ignition temperature	No data available
Vapour density	No data available
Flammability (solid, gas)	No data available
Evaporation rate	No data available
Partition coefficient: n- octanol / water	No data available
Viscosity	No data available
Explosive properties	No data available
Upper / lower flammability or explosive limits	Lower explosion limit: 12 vol % Upper explosion limit: 19 vol %
Oxidizing properties	No data available

Other safety information: No data available

SECTION 10: Stability and reactivity

Reactivity	No data available
Chemical stability	Stable under the specified storage conditions
Possibility of hazardous reactions	No data available
Condition to avoid	Direct sunlight. Heat. Open flame. Extremely high or low temperatures
Incompatible materials	Alkali metals, Strong acids and Strong bases, Strong oxidizing agents, Strong reducing agents, Amines, Vinyl compounds, Aluminum, Magnesium.
Hazardous decomposition products	In the event of fire: see section 5.

SECTION 11: Toxicological information

Acute toxicity	No data available
Skin corrosion/irritation	Causes skin irritation
Serious eye damage/eye irritation	Causes serious eye damage
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	Test Type: Ames test Test system: Salmonella typhimurium Result: positive Suspected human carcinogens
Reproductive toxicity	May damage fertility. May damage the unborn child.
Specific target organ toxicity - single exposure	May cause drowsiness or dizziness
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
Additional Information	
Endocrine disrupting properties	
Assessment	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

SECTION 12: Ecological information

Toxicity	Very toxic to aquatic life
Persistence and degradability	No data available
Bio accumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at Levels of 0.1% or higher.
Endocrine disrupting properties	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Other adverse effects	

SECTION 13: Disposal considerations

Waste treatment methods	Offer surplus and non-recyclable solutions to a licensed disposal company. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleansed containers like the product itself.
Products	
Contaminated packaging	Dispose of as unused product.

SECTION 14: Transport information

	UN no.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
ADR / RID	1593	Dichloromethane, solution	6.1	III	No
IMDG	1593	Dichloromethane solution	6.1	III	No
IATA	1593	Dichloromethane solution	6.1	III	No

SECTION 15: Regulatory information

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

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

Chemical safety assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

The information in this SDS is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. The user must be determined suitability of this information for his application.