

SAFETY DATA SHEET

according to 1907/2006/EC, Article 3

Version no. : 2.1
Prepared on : 18.11.2025
Revised on : -

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

1.1 Product identifiers

Product name Capping A, 10 % Acetic Anhydride in THF (Tetrahydrofuran / Acetic Anhydride, V / V = 90 : 10)
Product Number PSR48547
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-Straße. 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

Flam. Liq. 2	H225
Acute Tox. 4 (Oral)	H302
Acute Tox. 4 (Inhalation)	H332
Skin Irrit. 2	H315
Eye Dam. 1	H318
Carc. 2	H351
STOT SE 3	H335

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word Danger

Hazard statement(s)

H225	Highly flammable liquid and vapour.
H302+H332	Harmful if swallowed or if inhaled.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer

Precautionary statement(s)

P280	Wear protective gloves, protective clothing, eye protection, face protection, hearing protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER, doctor if you feel unwell.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER, doctor if you feel unwell.
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	EUH019 - May form explosive peroxides.

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
Tetrahydrofuran	Flam. Liq. 2, H225Carc. 2, H351Eye Irrit. 2, H319STOT SE 3, H335	80 – 95%
Acetic anhydride	Flam. Liq. 3, H226Acute Tox. 4 (Inhalation), H332Acute Tox. 4 (Oral), H302Skin Corr. 1B, H314	5 – 20

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. Call a physician immediately. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.
In case of skin contact	After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Rinse skin with water/shower. Ask for medical advice.
In case of eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if possible. Continue rinsing. Get immediate medical advice/attention
If swallowed	Ask for medical advice. Drink water immediately (max. 2 cups).
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
Suitable extinguishing media	
Unsuitable extinguishing media	Do not use a heavy water stream.
	Combustible.
	Vapors are heavier than air and may spread along floors.
	Development of hazardous combustion gases or vapours possible in the event of fire. Forms explosive mixtures with air at ambient temperatures.
Special hazards arising from the substance or mixture	Carbon oxides. Nitrous gases (NO _x). Fire may cause evolution of: Nitrogen oxides Caution! in contact with water product releases: Organic acids Pay attention to flashback. Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.
Advice for fire-fighters	Remove container from danger zone and cool with water. Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.
Further information	No data available

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures	Avoid breathing vapours, mist, gas, spray. Avoid substance contact. Ensure adequate ventilation, observe emergency procedures, consult an expert. Keep away from heat and sources of ignition For personal protection see section 8.
Environmental precautions	Do not allow to enter drains or water courses. Be careful of explosion risk.
Methods and materials for containment and cleaning up	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.
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. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.
Hygiene measures	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Remove contaminated clothes.
Conditions for safe storage, including any incompatibilities	Keep container tightly closed in a dry, well-ventilated place. Keep away from heat and sources of ignition. Storage temperature : 2 – 20 °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. Safety glasses. EN 166
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. Flame retardant antistatic protective clothing
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. Risk of explosion.

SECTION 9: Physical and chemical properties

Appearance	Form: Liquid Colour: Colourless
Odour	No data available
pH - Value	No data available
Density	No data available
Boiling Point	64 °C
Melting Point	No data available
Solubility in water	Soluble in water.
Flash point	-20 °C
Vapour pressure	No data available
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	No data available
Oxidizing properties	No data available

Other safety information: No data available

SECTION 10: Stability and reactivity

Reactivity	Vapors can form an explosive mixture with air. Peroxides may be formed.
Chemical stability	The product is chemically stable under standard ambient conditions (room temperature). Sensitivity to light. Air sensitive. A risk of explosion and/or of toxic gas formation exists with the following substances:
Possibility of hazardous reactions	Alkali hydroxides Hydrides Oxidizing agents Bromine Oxygen.
Condition to avoid	High temperature. Heat. Moisture.
Incompatible materials	Rubber. Several plastics. Tin
Hazardous decomposition products	In the event of fire: see section 5.

SECTION 11: Toxicological information

Acute toxicity	Harmful if swallowed. Harmful if inhaled.
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	Suspected of causing cancer
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	May cause respiratory irritation
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	No data available
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	2924	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Mixture of Acetic anhydride and Tetrahydrofuran)	3 (8)	II	No
IMDG	2924	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Mixture of Acetic anhydride and Tetrahydrofuran)	3 (8)	II	No
IATA	2924	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Mixture of Acetic anhydride and Tetrahydrofuran)	3 (8)	II	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.