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 B, 16 % NMI in THF (Tetrahydrofuran / N-methylimidazole, V / V = 84 : 16)
Product Number	PSR48552
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

Flam. Liq. 2	H225
Acute Tox. 4 (Oral)	H302
Acute Tox. 4 (Dermal)	H312
Skin Corr. 1B	H314
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+H312	Harmful if swallowed or in contact with skin.
H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation
H351	Suspected of causing cancer.

Precautionary statement(s)	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe vapours, mist, gas
P280	Wear protective gloves, protective clothing, eye protection, face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P370+P378	In case of fire: Use extinguishing powder, dry sand to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
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	75 – 95%
1-Methylimidazole	Acute Tox. 4 (Dermal), H312Acute Tox. 4 (Oral), H302Skin Corr. 1B, H314	5 – 25%

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 doctor.
In case of skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediatelycall a POISON CENTER/doctor.
In case of eye contact	Rinse cautiously with water for several minutes. Immediately call a POISONCENTER/doctor. Remove contact lenses, if possible. Continue rinsing.
If swallowed	Drink water immediatly (max. 2 cups). Do NOT induce vomiting. Immediately call a POISONCENTER/doctor. No attempts at neutralization.
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 **Suitable extinguishing media**	Foam. Dry powder. Carbon dioxide. Water spray.
Unsuitable extinguishing media	There are no extinguishing agent restrictions for this substance.
Special hazards arising from the substance or mixture	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. In the event of a fire, the following may be released: Nitrogen oxides
Advice for fire-fighters	In the event of a fire, dangerous fire gases or vapours may be produced. Be careful, the product may re-ignite. 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. 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	For personal protection see section 8. Do not breathe vapours, mist, gas, spray. Avoid substance contact. Ensure adequate ventilation, observe emergency procedures, consult an expert. Keep away from heat and sources of ignition. Evacuate area.
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	Take off immediately all contaminated clothing and wash it before reuse. Apply preventive skin protection. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
Conditions for safe storage, including any incompatibilities	Protected from light. Keep container tightly closed in a dry, well-ventilated place. Keep away from heat and sources of ignition. Keep contents under inert gas. Dry residue is explosive. Test for peroxide formation periodically and before distillation. Storage temperature : 5 – 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. Wear closed safety glasses. EN 166. Use face shield for larger quantities.
Skin protection	Wear protective gloves. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.
Body Protection	Wear protective clothing. Flame retardant antistatic protective clothing
Respiratory protection	Wear respiratory protection. Recommended filter type: Filter A
Control of environmental exposure	Do not let product enter drains. Risk of explosion.

SECTION 9: Physical and chemical properties

Appearance	Form: Liquid Colour: Colourless to light yellow
Odour	No data available
pH - Value	No data available
Density	No data available
Boiling Point	65 – 66 °C
Melting Point	-108.5 °C
Solubility in water	soluble
Flash point	-20 °C
Vapour pressure	173 hPa at 20 °C
Auto -ignition temperature	230 °C
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	Peroxides may be formed. Vapors can form an explosive mixture with air.
Chemical stability	Air and light sensitive. The product is chemically stable under standard ambient conditions (room temperature).
Possibility of hazardous reactions	A risk of explosion and/or of toxic gas formation exists with the following substances: Alkali hydroxides Hydrides Oxidizing agents Bromine Oxygen The constituents may react with: Acid chlorides Acid anhydrides Acids.
Condition to avoid	Moisture. Direct sunlight. Heat.
Incompatible materials	Several plastics. Rubber. Tin.
Hazardous decomposition products	Peroxides. In the event of fire: see section 5.

SECTION 11: Toxicological information

Acute toxicity	Harmful if swallowed. Harmful in contact with skin.
Skin corrosion/irritation	Causes severe skin burns.
Serious eye damage/eye irritation	Assumed to cause 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	0 – 10 % Aerobic - Exposure time 28 d Result: Not readily biodegradable.
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 Products	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.
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. (Solution of NMethylimidazole in Tetrahydrofuran)	3 (8)	II	No
IMDG	2924	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Solution of NMethylimidazole in Tetrahydrofuran)	3 (8)	II	No
IATA	2924	Flammable liquid, corrosive, n.o.s. (Solution of N-Methylimidazole in 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.