

# SAFETY DATA SHEET

according to 1907/2006/EC, Article 3

Version no. : 2.1  
Prepared on : 05.11.2025  
Revised on : -

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

### 1.1 Product identifiers

**Product name** HydraTrace Buffer, acid  
**Product Number** PSR48196  
**Brand** PureSynth research chemicals  
**CAS No.** NA

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

**Identified uses** : HydraTrace

### 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

Flammable liquids, (Category 2)	H225: Highly flammable liquid and vapor.
Acute toxicity, (Category 3)	H301: Toxic if swallowed.
Acute toxicity, (Category 3)	H331: Toxic if inhaled.
Acute toxicity, (Category 3)	H311: Toxic in contact with skin.
Skin irritation, (Category 2)	H315: Causes skin irritation.
Eye irritation, (Category 2)	H319: Causes serious eye irritation.
Reproductive toxicity, (Category 1B)	H360D: May damage the unborn child.
Specific target organ toxicity - single exposure, (Category 1), Eyes	H370: Causes damage to organs.
Specific target organ toxicity - single exposure, (Category 3), Respiratory system	H335: May cause respiratory irritation.

### 2.2 Label elements

**Labelling according Regulation (EC) No 1272/2008**

**Pictogram**



**Signal word** Danger

**Hazard statement(s)**

H225 Highly flammable liquid and vapor.  
H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled.

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H360D	May damage the unborn child.
H370	Causes damage to organs (Eyes).

**Precautionary statement(s)**

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P311	IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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.
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
dimethyl sulphite	Flam. Liq. 3; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H226, H315, H319, H335	>= 50 - < 70 %
Methanol	Flam. Liq. 2; Acute Tox. 3; STOT SE 1; H225, H301, H331, H311, H370 Concentration limits: >= 10 %: STOT SE 1, H370; 3 - < 10 %: STOT SE 2, H371; Acute Tox. 4; Skin Corr. 1C; Eye Dam. 1; Repr. 1B; H302, H314, H318, H360D	>= 30 - < 50 %
Imidazole		>= 1 - < 3 %

**SECTION 4: First aid measures**

**Description of first aid measures**

**General advice**

First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

**If inhaled**

After inhalation: fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

<b>In case of skin contact</b>	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.
<b>In case of eye contact</b>	After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.
<b>If swallowed</b>	After swallowing: fresh air. Make victim drink ethanol (e.g. 1 drinking glass of a 40% alcoholic beverage). Call a doctor immediately (mention methanol ingestion). Only in exceptional cases, if no medical care is available within one hour, induce vomiting (only in fully conscious persons) and make victim drink ethanol again (approx. 0.3 ml of a 40% alcoholic beverage/kg body weight/hour).
<b>Most important symptoms and effects, both acute and delayed</b>	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
<b>Indication of any immediate medical attention and special treatment needed</b>	No data available

## SECTION 5: Fire fighting measures

<b>Extinguishing media</b>	Carbon dioxide (CO <sub>2</sub> ) Dry powder Foam
<b>Suitable extinguishing media</b>	
<b>Unsuitable extinguishing media</b>	For this substance/mixture no limitations of extinguishing agents are given.
	Carbon oxides
	Nitrogen oxides (NO <sub>x</sub> )
	Sulfur oxides
	Hydrogen cyanide (hydrocyanic acid)
	Combustible.
<b>Special hazards arising from the substance or mixture</b>	Fire may cause evolution of: Sulfur oxides, nitrogen oxides Pay attention to flashback. Vapors are heavier than air and may spread along floors. Development of hazardous combustion gases or vapours possible in the event of fire.
<b>Advice for fire-fighters</b>	Forms explosive mixtures with air at ambient temperatures. Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.
<b>Further information</b>	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.

## SECTION 6: Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.
<b>Environmental precautions</b>	Do not let product enter drains. Risk of explosion.

<b>Methods and materials for containment and cleaning up</b>	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.
<b>Reference to other sections</b>	For disposal see section 13.

## SECTION 7: Handling and storage

<b>Precautions for safe handling</b>	Work under 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.
<b>Hygiene measures</b>	Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.
<b>Conditions for safe storage, including any incompatibilities</b>	Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Keep locked up or in an area accessible only to qualified or authorized persons. Recommended storage temperature see product label.
<b>Specific end use(s)</b>	Storage class (TRGS 510): 3: Flammable liquids Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## SECTION 8: Exposure controls / Personal protection

<b>Control parameters</b>	Ingredients with workplace control parameters
<b>Exposure controls</b>	
<b>Personal protective equipment:</b>	
<b>Eye / face protection</b>	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves
<b>Skin protection</b>	
<b>Body Protection</b>	Flame retardant antistatic protective clothing.
<b>Respiratory protection</b>	Recommended Filter type: Filter AX (EN 371)
<b>Control of environmental exposure</b>	Do not let product enter drains. Risk of explosion.

**SECTION 9: Physical and chemical properties**

<b>Appearance</b>	Form: liquid
<b>Odour</b>	Colour: light yellow methanolic
<b>pH - Value</b>	6.8 at 20 °C
<b>Density</b>	0.97 g/cm <sup>3</sup> at 20 °C
<b>Boiling Point</b>	No data available
<b>Melting Point</b>	No data available
<b>Solubility in water</b>	No data available
<b>Flash point</b>	9.7 °C - closed cup - c.c. - Methanol
<b>Vapour pressure</b>	No data available
<b>Auto -ignition temperature</b>	No data available
<b>Vapour density</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Partition coefficient: n- octanol / water</b>	No data available
<b>Viscosity</b>	No data available
<b>Explosive properties</b>	Not classified as explosive.
<b>Upper / lower flammability or explosive limits</b>	Upper explosion limit: 44 %(V) - Methanol Lower explosion limit: 5.5 %(V) - Methanol
<b>Oxidizing properties</b>	None

**Other safety information:** No data available

**SECTION 10: Stability and reactivity**

<b>Reactivity</b>	Vapors may form explosive mixture with air.
<b>Chemical stability</b>	<p>The product is chemically stable under standard ambient conditions (room temperature) .</p> <p>Risk of explosion with:</p> <p>Oxidizing agents</p> <p>perchloric acid</p> <p>perchlorates</p> <p>salts of oxyhalogenic acids</p> <p>chromium(VI) oxide</p> <p>halogen oxides</p> <p>nitrogen oxides</p> <p>nonmetallic oxides</p> <p>chromosulfuric acid</p> <p>chlorates</p> <p>hydrides</p> <p>zinc diethyl</p> <p>Halogens</p> <p>powdered magnesium</p> <p>hydrogen peroxide</p> <p>Nitric acid</p> <p>sulfuric acid</p> <p>permanganic acid</p> <p>sodium hypochlorite</p> <p>Exothermic reaction with:</p> <p>acid halides</p> <p>Acid anhydrides</p> <p>Reducing agents</p> <p>Acids</p> <p>Bromine</p> <p>Chlorine</p> <p>Chloroform</p> <p>Magnesium</p> <p>tetrachloromethane</p> <p>TITANIUM TETRACHLORIDE</p> <p>Risk of ignition or formation of inflammable gases or vapours with:</p> <p>Fluorine</p> <p>Oxides of phosphorus</p> <p>Raney-nickel</p> <p>Generates dangerous gases or fumes in contact with:</p> <p>Alkaline earth metals</p> <p>Alkali metals</p>
<b>Possibility of hazardous reactions</b>	<p>Warming</p> <p>various plastics, Magnesium, zinc alloys</p>
<b>Condition to avoid</b>	
<b>Incompatible materials</b>	
<b>Hazardous decomposition products</b>	In the event of fire: see section 5

## SECTION 11: Toxicological information

	Oral: No data available
<b>Acute toxicity</b>	Acute toxicity estimate Inhalation - 4 h – 7.87 mg/l - vapor Symptoms: Possible symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages: damage of respiratory tract Acute toxicity estimate Dermal – 761.68 mg/kg
<b>Skin corrosion/irritation</b>	Mixture causes skin irritation.
<b>Serious eye damage/eye irritation</b>	Mixture causes serious eye irritation.
<b>Respiratory or skin sensitization</b>	No data available
<b>Germ cell mutagenicity</b>	No data available
<b>Carcinogenicity</b>	No data available
<b>Reproductive toxicity</b>	May harm the unborn child.
<b>Specific target organ toxicity - single exposure</b>	Mixture causes damage to organs. - Eyes Mixture may cause respiratory irritation.
<b>Specific target organ toxicity - repeated exposure</b>	No data available
<b>Aspiration hazard</b>	No data available
<b>Additional Information</b>	
<b>Endocrine disrupting properties</b>	
<b>Assessment</b>	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

<b>Toxicity</b>	No data available
<b>Persistence and degradability</b>	No data available
<b>Bio accumulative potential</b>	No data available
<b>Mobility in soil</b>	No data available
<b>Results of PBT and vPvB assessment</b>	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. 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.
<b>Endocrine disrupting properties</b>	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.
<b>Other adverse effects</b>	Discharge into the environment must be avoided.

## SECTION 13: Disposal considerations

<b>Waste treatment methods</b>	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 uncleaned containers like the product itself.
<b>Products</b>	
<b>Contaminated packaging</b>	Dispose of as unused product.

**SECTION 14: Transport information**

	UN no.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
<b>ADR / RID</b>	1992	FLAMMABLE LIQUID, TOXIC, N.O.S. (Methanol, Dimethyl sulfite)	3 (6.1)	II	No
<b>IMDG</b>	1992	FLAMMABLE LIQUID, TOXIC, N.O.S. (Methanol, Dimethyl sulfite)	3 (6.1)	II	No
<b>IATA</b>	1992	Flammable liquid, toxic, n.o.s. (Methanol, Dimethyl sulfite)	3 (6.1)	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.