

# SAFETY DATA SHEET

according to 1907/2006/EC, Article 3

Version no. : 2.1  
Prepared on : 01.11.2025  
Revised on : -

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

### 1.1 Product identifiers

**Product name** HydraTrace Composit 5K  
**Product Number** PSR48188  
**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

Skin irritation, (Category 2)	H315: Causes skin irritation.
Eye irritation, (Category 2)	H319: Causes serious eye irritation.
Carcinogenicity, (Category 2)	H351: Suspected of causing cancer.
Reproductive toxicity, (Category 1B)	H360D: May damage the unborn child.
Specific target organ toxicity - repeated exposure, (Category 1), Thyroid	H372: Causes damage to organs through prolonged or repeated exposure if swallowed.

### 2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

**Pictogram**



**Signal word** Danger

**Hazard statement(s)**

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H351	Suspected of causing cancer.
H360D	May damage the unborn child.
H372	Causes damage to organs (Thyroid) through prolonged or repeated exposure if swallowed.

**Precautionary statement(s)**

P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe mist or vapors.
P264	Wash skin thoroughly after handling.
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
Iodine	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; STOT RE 1; Aquatic Acute 1; H302, H332, H312, H315, H319, H335, H372, H400 M-Factor - Aquatic Acute: 1	>= 10 - < 20 %
Imidazole	Acute Tox. 4; Skin Corr. 1C; Eye Dam. 1; Repr. 1B; H302, H314, H318, H360D	>= 1 - < 3 %
2-Methylimidazole	Acute Tox. 4; Skin Corr. 1C; Eye Dam. 1; Carc. 2; Repr. 1B; H302, H314, H318, H351, H360Df	>= 1 - < 3 %

**SECTION 4: First aid measures**

**Description of first aid measures**

<b>General advice</b>	Show this material safety data sheet to the doctor in attendance.
<b>If inhaled</b>	After inhalation: fresh air. Call in physician.
<b>In case of skin contact</b>	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.
<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: immediately make victim drink water (two glasses at most). Consult a physician.

<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>	Water Foam Carbon dioxide (CO <sub>2</sub> ) Dry powder
<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> ) Hydrogen iodide
<b>Special hazards arising from the substance or mixture</b>	Hydrogen cyanide (hydrocyanic acid) Combustible. Fire may cause evolution of: Sulfur oxides, hydrogen iodide, nitrogen oxides Development of hazardous combustion gases or vapours possible in the event of fire.
<b>Advice for fire-fighters</b>	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>	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. 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.
<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.
<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>	Tightly closed. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons. Recommended storage temperature see product label.

**Specific end use(s)**

Storage class (TRGS 510): 6.1C: Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects  
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>	protective clothing
<b>Respiratory protection</b>	Recommended Filter type: filter ABEK
<b>Control of environmental exposure</b>	Do not let product enter drains.

**SECTION 9: Physical and chemical properties**

<b>Appearance</b>	Form: liquid Colour: dark brown
<b>Odour</b>	No data available
<b>pH - Value</b>	No data available
<b>Density</b>	1.16 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>	No data available
<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>	No data available
<b>Oxidizing properties</b>	None

**Other safety information:** No data available

## SECTION 10: Stability and reactivity

<b>Reactivity</b>	No data available
<b>Chemical stability</b>	Reacts with air to form peroxides. The product is chemically stable under standard ambient conditions (room temperature) . Exothermic reaction with: Strong oxidizing agents Generates dangerous gases or fumes in contact with: Aluminum Possible formation of: Hydrogen Violent reactions possible with: Metals Acid chlorides Acid anhydrides Acids
<b>Possibility of hazardous reactions</b>	no information available
<b>Condition to avoid</b>	Aluminum, artificial and/or natural resins, Copper
<b>Incompatible materials</b>	In the event of fire: see section 5
<b>Hazardous decomposition products</b>	

## SECTION 11: Toxicological information

<b>Acute toxicity</b>	Acute toxicity estimate Oral - > 2.000 mg/kg Symptoms: Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract. Acute toxicity estimate Inhalation - 4 h - > 5 mg/l - dust/mist Symptoms: Possible symptoms:, mucosal irritations
<b>Skin corrosion/irritation</b>	Acute toxicity estimate Dermal - > 2.000 mg/kg 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>	Evidence of a carcinogenic effect.
<b>Reproductive toxicity</b>	May harm the unborn child.
<b>Specific target organ toxicity - single exposure</b>	No data available
<b>Specific target organ toxicity - repeated exposure</b>	Mixture causes damage to organs through prolonged or repeated exposure. - Thyroid
<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>	
<b>Other adverse effects</b>	No data available

## 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>	-	Not dangerous goods	-	-	No
<b>IMDG</b>	-	Not dangerous goods	-	-	No
<b>IATA</b>	-	Not dangerous goods	-	-	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.