

SAFETY DATA SHEET

according to 1907/2006/EC, Article 3

Version no. : 2.1
Prepared on : 16.10.2025
Revised on : -

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

1.1 Product identifiers

Product name HydraTrace Compozit 1
Product Number PSR48180
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-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

Carcinogenicity Category 2 H351: Suspected of causing cancer
Reproductive toxicity Category 1B H360Df: May damage the unborn child. Suspected of damaging fertility
Specific target organ toxicity - repeated exposure Category 2 H373: May cause damage to organs through prolonged or repeated exposure.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word Danger

Hazard statement(s)

H351 Suspected of causing cancer.
H360Df May damage the unborn child. Suspected of damaging fertility.
H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statement(s)

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

P284	In case of inadequate ventilation wear respiratory protection.
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
-	-	NA
Component	Classification	Concentration
2-(2- Ethoxyethoxy)ethanol		>= 60 % - < 90 %
imidazole	Acute Tox. 4; H302; Oral Skin Corr. 1C; H314 Eye Dam. 1; H318 Repr. 1B; H360D	>= 5 % - < 10 %
2-methylimidazole	Acute Tox. 4; H302; Oral Skin Corr. 1C; H314 Eye Dam. 1; H318 Carc. 2; H351 Repr. 1B; H360Df	>= 5 % - < 10 %
sulfur dioxide	Press. Gas Liquefied gas; H280 Acute Tox. 3; H331; Inhalation Skin Corr. 1B; H314 STOT SE 1; H370; Inhalation; Respiratory system	>= 5 % - < 10 %
iodine	Acute Tox. 4; H302; Oral Acute Tox. 4; H332; Inhalation Acute Tox. 4; H312; Dermal Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335; Respiratory system STOT RE 1; H372	>= 1 % - < 5 %
1H-Imidazole monohydriodide	Aquatic Acute 1; H400 Acute Tox. 4; H302; Oral Repr. 1B; H360D	>= 1 % - < 5 %

SECTION 4: First aid measures

Description of first aid measures

General advice

First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately

If inhaled

Remove to fresh air. Keep patient warm and at rest. Call a physician immediately.

In case of skin contact

Wash off immediately with plenty of water. If skin irritation persists, call a physician.

In case of eye contact	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Protect unharmed eye.
If swallowed	When swallowed, allow water to be drunk. Do NOT induce vomiting. Call a physician immediately.
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	Treat symptomatically.

SECTION 5: Fire fighting measures

Extinguishing media	Water spray Foam Carbon dioxide (CO ₂) Dry powder
Suitable extinguishing media	
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.
	Fire may cause evolution of:
	Carbon monoxide
Special hazards arising from the substance or mixture	Carbon dioxide (CO ₂)
	Sulphur oxides
	Nitrogen oxides (NO _x)
Advice for fire-fighters	In the event of fire, wear self-contained breathing apparatus. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Further information	No data available

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures	Evacuate personnel to safe areas. Wear personal protective equipment. Unprotected persons must be kept away. Ensure adequate ventilation. Remove all sources of ignition.
Environmental precautions	Should not be released into the environment.
Methods and materials for containment and cleaning up	Ventilate the area. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Reference to other sections	For disposal see section 13.

SECTION 7: Handling and storage

Precautions for safe handling	Wear personal protective equipment. Use only in well-ventilated areas. Keep away from sources of ignition - No smoking. Normal measures for preventive fire protection.
Hygiene measures	Take off all contaminated clothing immediately. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday. When using do not eat or drink.
Conditions for safe storage, including any incompatibilities	Requirements for storage areas and containers: Keep only in the original container, tightly closed, in a well-ventilated place. Store at room temperature. (Ambient temperature: > 0 < 35°C) Protect from atmospheric moisture and water. Do not store for longer

	periods (not > 1 month) at temperatures above 25°C. Higher temperature leads to an accelerated decrease in titer.
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	Safety goggles
Skin protection	Glove material: Nitrile rubber Break through time: > 480 min Glove thickness: 0,4 mm Camatril® 730 Gloves must be inspected prior to use. Replace when worn
Body Protection	Protective suit
Respiratory protection	Recommended Filter type: ABEK
Control of environmental exposure	Handle in accordance with local environmental regulations and good industrial practices.

SECTION 9: Physical and chemical properties

Appearance	Form: liquid Colour: brown
Odour	characteristic
pH - Value	3.0 – 4.0 at 20 °C
Density	ca. 1.110 g/cm ³ at 20 °C
Boiling Point	194 °C at 1.013 hPa
Melting Point	No data available
Solubility in water	completely miscible
Flash point	97 °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	none

Other safety information: No data available

SECTION 10: Stability and reactivity

Reactivity	Stable under recommended storage conditions.
Chemical stability	No decomposition if used as directed.
Possibility of hazardous reactions	Hazardous polymerisation does not occur.
Condition to avoid	Protect from atmospheric moisture and water. Heat, flames and sparks.
Incompatible materials	Strong oxidizing agents
Hazardous decomposition products	In case of fire hazardous decomposition products may be produced such as: Carbon monoxide Carbon dioxide (CO ₂) Sulphur oxides Nitrogen oxides (NO _x)

SECTION 11: Toxicological information

Acute toxicity	Acute oral toxicity: LD50 Species: Rat Value: > 2.000 mg/kg Acute dermal toxicity: LD50 Species: Rat Value: > 2.000 mg/kg Acute inhalation toxicity: Acute toxicity estimate Value: > 5 mg/l Exposure time: 4 h
Skin corrosion/irritation	Species: Rabbit Classification: non-irritant
Serious eye damage/eye irritation	Species: rabbit eye Classification: non-irritant
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	Test Method: Ames test Result: negative
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
Additional Information	No data available
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	Biodegradation: 78 % Exposure time: 14 d Result: 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	No data available

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	-	Not dangerous goods	-	-	No
IMDG	-	Not dangerous goods	-	-	No
IATA	-	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.