

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 Working Medium K
Product Number PSR48207
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

Acute toxicity Category 2 - Oral	H300 Fatal if swallowed.
Acute toxicity Category 2 - Inhalation	H330 Fatal if inhaled.
Acute toxicity Category 1 - Dermal	H310 Fatal in contact with skin.
Skin irritation Category 2	H315 Causes skin irritation
Serious eye damage Category 1	H318 Causes serious eye damage.
Specific target organ toxicity - single exposure Category 3	H336 May cause drowsiness or dizziness
Carcinogenicity Category 2	H351 Suspected of causing cancer.
Reproductive toxicity Category 2	H361d Suspected of damaging the unborn child
Specific target organ toxicity - repeated exposure Category 1	H372 Causes damage to organs through prolonged or repeated exposure if swallowed and inhaled.
Long-term (chronic) aquatic hazard Category 2	H411 Toxic to aquatic life with long lasting effects

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word Danger

Hazard statement(s)

H300 + H310 + H330 Fatal if swallowed, in contact with skin or if inhaled.

H315	Causes skin irritation.
H318	Causes serious eye damage.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure if swallowed and inhaled.
H411	Toxic to aquatic life with long lasting effects.

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.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting..
P302 + P352	IF ON SKIN: Wash with plenty of water.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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	chloroform; trichloromethane 2-chloroethanol; ethylene chlorohydrin

Other hazards: Avoid exposure - obtain special instructions before use. Do not breathe vapours or spray mist. 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. This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Product does not contain substances that are persistent, mobile, and toxic (PMT/vPvM) at levels of 0.1 % or higher.

SECTION 3: Composition / information on ingredients

3.1 Substances

Common names & Synonyms	Mol. formula	CAS number
Component chloroform; trichloromethane	Classification Acute Tox. 4; H302; Oral Acute Tox. 3; H331; Inhalation Skin Irrit. 2; H315 Eye Irrit. 2; H319 Carc. 2; H351 Repr. 2; H361d STOT RE 1; H372 STOT SE 3; H336	Concentration >= 30 % - < 60 %
2-chloroethanol; ethylene chlorohydrin	Flam. Liq. 3; H226 Acute Tox. 2; H300; Oral Acute Tox. 2; H330; Inhalation Acute Tox. 1; H310; Dermal Eye Dam. 1; H318 Aquatic Chronic 2; H411 Met. Corr. 1; H290	>= 30 % - < 50 %

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

Move 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	No data available
Indication of any immediate medical attention and special treatment needed	Treat symptomatically

SECTION 5: Fire fighting measures

Extinguishing media	
Suitable extinguishing media	Water spray Foam Carbon dioxide (CO ₂) Dry powder
Unsuitable extinguishing media	High volume water jet.
Special hazards arising from the substance or mixture	Fire may cause evolution of: Phosgene.
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.
Environmental precautions	Should not be released into the environment.
Methods and materials for containment and cleaning up	Soak up with inert absorbent material. Pick for disposal in tightly closed containers .
Reference to other sections	For personal protection see section 8.

SECTION 7: Handling and storage

Precautions for safe handling	Advice on safe handling: Exhaust ventilation at the object is necessary. Advice on protection against fire and explosion: 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.
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	Occupational exposure limits
Exposure controls	Occupational exposure controls: Avoid exposure - obtain special instructions before use. The Personal Protective Equipment must be in accordance with EN standards: respirator EN 136, 140, 149; safety glasses EN 166; protective suit: EN 340, 463, 468, 943-1, 943-2; gloves EN 374, 511; safety shoes EN-ISO 20345.
Personal protective equipment:	
Eye / face protection	Safety goggles
Skin protection	Protective suit
Body Protection	Protective suit

Respiratory protection	In case of insufficient ventilation wear suitable respiratory equipment.
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: colorless
Odour	aromatic
pH - Value	7.0
Density	1.350 g/cm ³ at 20 °C
Boiling Point	ca. 60 °C at 1013 hPa
Melting Point	No data available
Solubility in water	completely miscible
Flash point	> 100 °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 moisture. .
Incompatible materials	Strong bases, Strong oxidizing agents, Magnesium, Lithium
Hazardous decomposition products	Phosgene

SECTION 11: Toxicological information

Acute toxicity	Acute oral toxicity: The product has not been tested. The information is derived from the properties of the individual components. Acute dermal toxicity: The product has not been tested. The information is derived from the properties of the individual components. Acute inhalation toxicity: The product has not been tested. The information is derived from the properties of the individual components.
Skin corrosion/irritation	The product has not been tested. The information is derived from the properties of the individual components

Serious eye damage/eye irritation	The product has not been tested. The information is derived from the properties of the individual components.
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.
Specific target organ toxicity - repeated exposure	The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.
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	The product should not be allowed to enter drains, water courses or the soil.

SECTION 13: Disposal considerations

Waste treatment methods	
Products	Dispose according to legal requirements.
Contaminated packaging	Legal requirements are to be considered in regard of reuse or disposal of used packaging materials

SECTION 14: Transport information

	UN no.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
ADR / RID	3382	TOXIC BY INHALATION LIQUID, N.O.S.(CHLOROFORM, ETHYLENE CHLOROHYDRIN)	6.1	I	No
IMDG	3382	TOXIC BY INHALATION LIQUID, N.O.S.(CHLOROFORM, ETHYLENE CHLOROHYDRIN)	6.1	I	No
IATA	3382	Toxic by inhalation liquid, n.o.s.(chloroform, ethylene chlorohydrin)	6.1	I	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.