

SAFETY DATA SHEET

according to 1907/2006/EC, Article 3

Version no. : 2.1
Prepared on : 06.11.2025
Revised on : -

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

1.1 Product identifiers

Product name HydraTrace Coulomet A, anolyte
Product Number PSR48209
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 vapour
Acute toxicity Category 3 - Oral	H301 Toxic if swallowed.
Acute toxicity Category 3 - Inhalation	H331 Toxic if inhaled.
Acute toxicity Category 3 - Dermal	H311 Toxic in contact with skin.
Skin corrosion Category 1B	H314 Causes severe skin burns and 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 1B	H360D May damage the unborn child.
Specific target organ toxicity - single exposure Category 1	H370 Causes damage to organs.
Specific target organ toxicity - repeated exposure Category 1 - Inhalation	H372 Causes damage to organs through prolonged or repeated exposure if inhaled.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word

Danger

Hazard statement(s)

H225	Highly flammable liquid and vapour.
H301 + H311 + H331	Toxic if swallowed, in contact with skin or if inhaled.
H314	Causes severe skin burns and eye damage.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H360D	May damage the unborn child.
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure if inhaled.

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	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
methanol	Flam. Liq. 2; H225 Acute Tox. 3; H331; Inhalation Acute Tox. 3; H311; Dermal Acute Tox. 3; H301; Oral STOT SE 1; H370	>= 30 % - < 60 %
chloroform; trichloromethane	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	>= 30 % - < 60 %
imidazole	Acute Tox. 4; H302; Oral Skin Corr. 1C; H314 Eye Dam. 1; H318 Repr. 1B; H360D	>= 10 % - < 20 %

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 %
1H-Imidazole monohydriodide	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	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. Call a physician immediately.
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 powde
Suitable extinguishing media	
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.
	Flammable.
	Vapours may form explosive mixtures with air.
	Vapours are heavier than air and may spread along floors.
	Vapors may travel to areas away from work site before igniting/flashing back to vapor source.
Special hazards arising from the substance or mixture	In case of fire hazardous decomposition products may be produced such as: Carbon monoxide Carbon dioxide (CO ₂) Formaldehyde Phosgene Nitrogen oxides (NO _x) Sulphur oxides Hydrogen halides
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. Remove all sources of ignition. Ensure adequate ventilation. Wear personal protective equipment. Unprotected persons must be kept away.
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 disposal see section 13.

SECTION 7: Handling and storage

Precautions for safe handling	Wear personal protective equipment. Use only in well-ventilated areas. Keep product and empty container away from heat and sources of ignition. No smoking. Take precautionary measures against static discharges. Vapours may form explosive mixtures with air.
Hygiene measures	Take off all contaminated clothing immediately. Remove and wash contaminated clothing before re-use. When using do not eat or drink. Wash hands before breaks and at the end of workday.
Conditions for safe storage, including any incompatibilities	Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.
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	Protective gloves
Body Protection	Protective suit
Respiratory protection	In case of insufficient ventilation wear suitable respiratory equipment. Recommended Filter type: Organic gas and low boiling vapour type
Control of environmental exposure	Handle in accordance with local environmental regulations and good industrial practices.

SECTION 9: Physical and chemical properties

Appearance	Form: liquid
Odour	Colour: tan characteristic
pH - Value	6
Density	1.070 g/cm ³ at 20 °C
Boiling Point	59 °C at 1.013 hPa
Melting Point	No data available
Solubility in water	Water solubility: completely miscible
Flash point	11 °C
Vapour pressure	985 hPa at 55 °C
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	Lower explosion limit 5.5 %(V) Upper explosion limit 13 %(V)
Oxidizing properties	The substance or mixture is not classified as oxidizing.

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	Heat, flames and sparks. Extremes of temperature and direct sunlight.
Incompatible materials	Zinc Oxidizing agents Strong acids Acid chlorides Acid anhydrides Strong bases In case of fire hazardous decomposition products may be produced such as:
Hazardous decomposition products	Carbon monoxide Carbon dioxide (CO ₂) Formaldehyde Phosgene Nitrogen oxides (NO _x) Sulphur oxides Hydrogen halides

SECTION 11: Toxicological information

Acute toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	May damage the unborn child.
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	
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	Toxicity to fish: LC50 Species: Leuciscus idus (Golden orfe) Value: > 1.000 mg/l Exposure time: 96 h
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	Do not flush into surface water or sanitary sewer system.

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 uncleaned 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	1992	FLAMMABLE LIQUID, TOXIC, N.O.S.(METHANOL, CHLOROFORM)	3 (6.1)	II	No
IMDG	1992	FLAMMABLE LIQUID, TOXIC, N.O.S.(METHANOL,CHLO ROFORM)	3 (6.1)	II	No
IATA	1992	Flammable liquid, toxic, n.o.s.(Methanol, Chloroform)	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.