

# SAFETY DATA SHEET

according to 1907/2006/EC, Article 3

Version no. : 2.1  
Prepared on : 07.11.2025  
Revised on : -

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

### 1.1 Product identifiers

**Product name** HydraTrace Coulomet CG, catholyte  
**Product Number** PSR48211  
**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

H225 Highly flammable liquid and vapour.  
H331 Toxic if inhaled.  
H370 Causes damage to the central nervous system and the visual organs  
H318 Causes serious eye damage.  
H315 Causes skin irritation.

### 2.2 Label elements

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

**Pictogram**



**Signal word** Danger

**Hazard statement(s)**

H225 Highly flammable liquid and vapour.  
H331 Toxic if inhaled  
H370 Causes damage to the central nervous system and the visual organs  
H318 Causes serious eye damage  
H315 Causes skin irritation

**Precautionary statement(s)**

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated

P305 + P351 + P338	clothing. Rinse skin with water. 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
bis(hydroxyethyl)ammonium chloride	Serious eye damage/irritation, Category 2A, H319	50-100%
methanol	Flam. Liq. 2, H225; Acute Toxic 3, H301; Acute Toxic	25-50%
2,2'-iminodiethanol	Eye Dam. 1, H318; Acute toxic 4 H302; Skin Irritation2,	23-<5%
iodine	Acute Toxic 4, H302; Acute Toxic 4, H332; Skin Irritation 2	

### 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>	Supply fresh air or oxygen; call for doctor. In case of unconsciousness place patient stably in side position for transportation.
<b>In case of skin contact</b>	Immediately wash with water and soap and rinse thoroughly.
<b>In case of eye contact</b>	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
<b>If swallowed</b>	Do not induce vomiting; call for medical help immediately.
<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>	CO2, sand, extinguishing powder. Do not use water.
<b>Suitable extinguishing media</b>	
<b>Unsuitable extinguishing media</b>	Water with full jet

Special hazards arising from the substance or mixture	No data available
Advice for fire-fighters	No data available
Further information	No data available

#### SECTION 6: Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Wear protective equipment. Keep unprotected persons away.
<b>Environmental precautions</b>	Do not allow to enter sewers/surface or ground water
<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 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>	Ensure good ventilation/exhaustion at the workplace.
<b>Hygiene measures</b>	Prevent formation of aerosols.
<b>Conditions for safe storage, including any incompatibilities</b>	Keep container tightly sealed. Store in cool, dry conditions in well-sealed receptacles.
<b>Specific end use(s)</b>	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). Tightly fitting safety goggles
<b>Skin protection</b>	required
<b>Body Protection</b>	Flame retardant antistatic protective clothing.
<b>Respiratory protection</b>	In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
<b>Control of environmental exposure</b>	Do not let product enter drains.

## SECTION 9: Physical and chemical properties

<b>Appearance</b>	Form: Liquid
	Colour: Brown
<b>Odour</b>	Characteristic Odor
<b>pH - Value</b>	No data available
<b>Density</b>	No data available
<b>Boiling Point</b>	64.7°C
<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>	128 hPa
<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>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
<b>Upper / lower flammability or explosive limits</b>	No data available
<b>Oxidizing properties</b>	No data available

**Other safety information:** No data available

## SECTION 10: Stability and reactivity

<b>Reactivity</b>	No data available
<b>Chemical stability</b>	No data available
<b>Possibility of hazardous reactions</b>	No data available
<b>Condition to avoid</b>	No data available
<b>Incompatible materials</b>	No data available
<b>Hazardous decomposition products</b>	No data available

## SECTION 11: Toxicological information

<b>Acute toxicity</b>	Toxic if inhaled.
<b>Skin corrosion/irritation</b>	Causes skin irritation.
<b>Serious eye damage/eye irritation</b>	Causes serious eye damage.
<b>Respiratory or skin sensitization</b>	Based on available data, the classification criteria are not met.
<b>Germ cell mutagenicity</b>	No data available
<b>Carcinogenicity</b>	No data available
<b>Reproductive toxicity</b>	No data available
<b>Specific target organ toxicity - single exposure</b>	Causes damage to the central nervous system and the visual organs.

<b>Specific target organ toxicity - repeated exposure</b>	No data available
<b>Aspiration hazard</b>	No data available
<b>Additional Information</b>	No data available
<b>Endocrine disrupting properties</b>	No data available
<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>	
<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>	

## 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 uncleansed 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>	2924	Flammable liquids	3 (8)	III	No
<b>IMDG</b>	2924	Flammable liquids	3 (8)	III	No
<b>IATA</b>	2924	Flammable liquids	3 (8)	III	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.