

# 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-K, catholyte  
**Product Number** PSR48214  
**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

H360 May damage fertility or the unborn child  
H318 Causes serious eye damage.  
H312 Harmful in contact with skin.  
H315 Causes skin irritation.

### 2.2 Label elements

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

**Pictogram**



**Signal word** Danger

**Hazard statement(s)**

H360 May damage fertility or the unborn child  
H318 Causes serious eye damage  
H312 Harmful in contact with skin  
H315 Causes skin irritation.

**Precautionary statement(s)**

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with 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.

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
N-methyl formamide	Reproductive. 1B, H360; Acute Tox. 4, H312	50-100%
bis(hydroxyethyl)ammonium chloride	Serious eye damage/irritation - Category 2A, H319 tetrahydro-2-furylmethanol	10-25%
tetrahydro-2-furylmethanol	Reproductive. 1B, H360Df; Acute Tox. 4, H302; Serious eye damage/irritation - Category 2A, H319; Flam. Liq. 4, H227	10-25%
iodine	STOT RE 1. H372: 1 Acute Tox. 4. H302: Acute Tox. 4. H312; Acute Tox. 4, H332; Skin Irritation. 2, H315; STOT SE 3. H335	≥2.5-<5%
imidazole	Reproductive. 1B, H360D; Skin Corr. 1C, H314; Acute Tox. 4, H302	≥2-<5%

### 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>	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. Then consult a doctor.
<b>If swallowed</b>	If symptoms persist consult doctor.
<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>	CO <sub>2</sub> , powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
<b>Suitable extinguishing media</b>	
<b>Unsuitable extinguishing media</b>	No data available
<b>Special hazards arising from the substance or mixture</b>	No data available
<b>Advice for fire-fighters</b>	No data available
<b>Further information</b>	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>	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.
<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>	No data available
<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>	100°C
<b>Melting Point</b>	No data available
<b>Solubility in water</b>	No data available
<b>Flash point</b>	74°C
<b>Vapour pressure</b>	2 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 does not present an explosion hazard.
<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>	Harmful in contact with skin.
<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>	May damage fertility or the unborn childz
<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

### Toxicity

**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**

## 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>	1760	CORROSIVE LIQUID, N.O.S. (bis(hydroxyethyl)ammonium chloride, N-methyl formamide)	3	III	No
<b>IMDG</b>	1760	CORROSIVE LIQUID, N.O.S. (bis(hydroxyethyl)ammonium chloride, N-methyl formamide)	3	III	No
<b>IATA</b>	1760	corrosive liquid, n.o.s. (bis(hydroxyethyl)ammonium chloride, n-methyl formamide)	3	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.