

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 Formamide, dry (max. 0.02% H₂O), for analysis
Product Number PSR48198
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

H351 Suspected of causing cancer.
H360 May damage fertility or the unborn child.
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
H360 May damage fertility or the unborn child.
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.
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
Formamide	-	-

SECTION 4: First aid measures

Description of first aid measures

If inhaled	Supply fresh air; consult doctor in case of complaints.
In case of skin contact	Generally the product does not irritate the skin.
In case of eye contact	Rinse opened eye for several minutes under running water.
If swallowed	If symptoms persist consult doctor.
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	No data available

SECTION 5: Fire fighting measures

Extinguishing media	Use fire extinguishing methods suitable to surrounding conditions.
Suitable extinguishing media	
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

Personal precautions, protective equipment and emergency procedures	No data available
Environmental precautions	Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.
Methods and materials for containment and cleaning up	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Reference to other sections	For disposal see section 13.

SECTION 7: Handling and storage

Precautions for safe handling	Open and handle receptacle with care. Do not eat, drink or smoke during use. Wash hands after handling.
Conditions for safe storage, including any incompatibilities	No data available
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	Goggles recommended during refilling
Skin protection	The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Respiratory protection	Not required.
Control of environmental exposure	Do not let product enter drains.

SECTION 9: Physical and chemical properties

Appearance	Form: Liquid Colour: Colourless
Odour	Odourless
pH - Value	No Data Available
Density	1.1339 g/cm ³
Boiling Point	210.5 °C
Melting Point	2.5 °C
Solubility in water	Fully miscible.
Flash point	175 °C
Vapour pressure	0.03 hPa
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	No Data Available

Other safety information: No data available

SECTION 10: Stability and reactivity

Reactivity	No Data Available
Chemical stability	No decomposition if used according to specifications.
Possibility of hazardous reactions	No dangerous reactions known.
Condition to avoid	Heat Basis
Incompatible materials	Strong oxidising agents. Hydrogen peroxide, odides, Pyridine, Sulphur oxides
Hazardous decomposition products	No Data Available

SECTION 11: Toxicological information

Acute toxicity	Oral LD50 5,325 mg/kg (rat) Dermal LD50 >3,000 mg/kg (rat) Inhalative LC50/4 h 21 mg/l (rat)
Skin corrosion/irritation	Fur - Rabbit Result: No skin irritation - 20 h
Serious eye damage/eye irritation	Eyes - Rabbit Result: Mild irritation
Germ cell mutagenicity	Eyes - Rabbit Result: Mild irritation Ames Test Escherichia coli Salmonella typhimurium Result: negative In vitro test Other cell types Result: positive
Carcinogenicity	In vitro test - Embryo Result: negative Mouse - Red blood cells (erythrocytes) Result: negative Mouse - Bone marrow Positive result Drosophila melanogaster Result: negative
Reproductive toxicity	May damage fertility or the unborn child.
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	Oral - May cause damage to organs through prolonged or repeated exposure. Blood.
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

LC50 static test - Leuciscus idus (Golden orfe) - 6569 mg/L - 96 h

Toxicity to fish

Toxicity to daphnia and other aquatic invertebrates

EC50 static test - Ceriodaphnia (Water flea) - >500 mg/L - 48 h

Toxicity to algae

ErC50 static test - Desmodesmus subspicatus (green algae) - >500 mg/L - 96 h

Toxicity to bacteria

EC50 static test- Activated sludge-1000 mg/L-30 min

Biodegradability

Persistence and degradability

Aerobic - Exposure time: 28 d

Result: 99 % - 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

Danger to drinking water supplies.

Discharge into the environment must be avoided.

SECTION 13: Disposal considerations

Waste treatment methods Products

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.

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.