

# SAFETY DATA SHEET

according to 1907/2006/EC, Article 3

Revision date: 12/08/2025

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

### 1.1 Product identifiers

<b>Product name</b>	Ammonium formate
<b>Product Number</b>	PSR36296 / PSR44946
<b>Brand</b>	PureSynth research chemicals
<b>CAS No.</b>	540-69-2

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : PurChrom

### 1.3 Details of the supplier of the safety data sheet

<b>Company</b>	PureSynth Research Chemicals GmbH. 64683 Einhausen Marie-Curie-StraBe. 3, Germany
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### 1.4 Emergency telephone number

Worldwide Helpline No.: 1800-8908-260

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Eye irritation (Category 2), H319

### 2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

**Pictogram**



**Signal word**

Warning

**Hazard statement(s)**

H319 Causes serious eye irritation

**Precautionary statement(s)**

P264	Wash skin thoroughly after handling.
P280	Wear protective gloves, protective clothing, face protection.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337 + P313	If eye irritation persists: 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
Formic acid ammonium salt	CH <sub>5</sub> NO <sub>2</sub>	540-69-2
Component	Classification	Concentration
ammonium formate	Eye Irrit. 2; H319	<= 100 %

## SECTION 4: First aid measures

### Description of first aid measures

<b>General advice</b>	Consult a physician. Show this safety data sheet to the doctor in attendance.
<b>If inhaled</b>	After inhalation: fresh air.
<b>In case of skin contact</b>	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.
<b>In case of eye contact</b>	After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.
<b>If swallowed</b>	After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.
<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>	Water Foam Carbon dioxide (CO <sub>2</sub> ) Dry powder
<b>Suitable extinguishing media</b>	
<b>Special hazards arising from the substance or mixture</b>	Carbon oxides Nitrogen oxides (NO <sub>x</sub> ) Combustible. Development of hazardous combustion gases or vapors possible in the event of fire
<b>Advice for fire-fighters</b>	In the event of fire, wear self-contained breathing apparatus.
<b>Further information</b>	Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system

## SECTION 6: Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust. For personal protection see section 8.
<b>Environmental precautions</b>	Do not let product enter drains.
<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 dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.
<b>Reference to other sections</b>	For disposal see section 13.

## SECTION 7: Handling and storage

<b>Precautions for safe handling</b>	For precautions see section 2.2
<b>Conditions for safe storage, including any incompatibilities</b>	Tightly closed. Dry. Hygroscopic room temperature.
<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>	Components with workplace control parameters
<b>Exposure controls</b>	
<b>Appropriate engineering controls</b>	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
<b>Personal protective equipment:</b>	
<b>Eye / face protection</b>	Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses
<b>Skin protection</b>	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
<b>Body Protection</b>	protective clothing
<b>Respiratory protection</b>	Required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type P2 The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
<b>Control of environmental exposure</b>	Do not let product enter drains.

## SECTION 9: Physical and chemical properties

<b>Appearance</b>	Form: crystalline Colour: White
<b>Odour</b>	No data available
<b>pH - Value</b>	5.5 - 7,5 at 63,1 g/l at 25 °C
<b>Density</b>	1.26 g/mL at 25 °C
<b>Boiling Point</b>	180 °C
<b>Melting Point</b>	119 - 121 °C
<b>Solubility in water</b>	63.1 g/l at 20 °C - completely soluble
<b>Flash point</b>	No data available
<b>Vapour pressure</b>	No data available
<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>	No data available
<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>	The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.
<b>Chemical stability</b>	The product is chemically stable under standard ambient conditions (room temperature).
<b>Possibility of hazardous reactions</b>	No data available
<b>Condition to avoid</b>	Exposure to moisture.
<b>Incompatible materials</b>	Oxidizing agents, Strong acids
<b>Hazardous decomposition products</b>	In the event of fire: see section 5

## SECTION 11: Toxicological information

<b>Acute toxicity</b>	LD50 Oral - Mouse - 2.250 mg/kg
<b>Skin corrosion/irritation</b>	Skin - human skin Result: No skin irritation
<b>Serious eye damage/eye irritation</b>	Eyes - Human Result: Eye irritation
<b>Respiratory or skin sensitization</b>	No data available Test Type: Ames test
<b>Germ cell mutagenicity</b>	Test system: S. typhimurium Metabolic activation: with and without metabolic activation Result: negative
<b>Carcinogenicity</b>	No data available

<b>Reproductive toxicity</b>	No data available
<b>Specific target organ toxicity - single exposure</b>	No data available
<b>Specific target organ toxicity - repeated exposure</b>	No data available
<b>Aspiration hazard</b>	RTECS: BQ6650000 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
<b>Additional Information</b>	

## SECTION 12: Ecological information

### Toxicity

Toxicity to fish	No data available
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - 365 mg/l - 48 h
Toxicity to algae	static test ErC50 - Pseudokirchneriella subcapitata (green algae) - 1.240 mg/l - 72 h
Toxicity to bacteria	No data available
<b>Persistence and degradability</b>	aerobic Result: - Readily biodegradable.
<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.
<b>Other adverse effects</b>	No data available

## 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>	-	Not dangerous goods	-	-	No
<b>IMDG</b>	-	Not dangerous goods	-	-	No
<b>IATA</b>	-	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.

### Other regulations

Take note of Dir 94/33/EC on the protection of young people at work

### 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.