

# SAFETY DATA SHEET

according to 1907/2006/EC, Article 3

Version no. : 2.0  
Prepared on : 11..03.2026  
Revised on : -

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

### 1.1 Product identifiers

**Product name** Methyl Yellow  
**Product Number** PSR50257  
**Brand** PureSynth research chemicals  
**CAS No.** 60-11-7

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

**Identified uses** : Laboratory chemicals, Manufacture of substances

### 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

**Classification according to Regulation (EC) No 1272/2008**

Acute toxicity, Category 3	H301: Toxic if swallowed.
Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Germ cell mutagenicity, Category 2	H341: Suspected of causing genetic defects
Carcinogenicity, Category 2	H351: Suspected of causing cancer.
Specific target organ toxicity - single exposure, Category 3, Respiratory system	H335: May cause respiratory irritation.
Long-term (chronic) aquatic hazard, Category 4	H413: May cause long lasting harmful effects to aquatic life.

### 2.2 Label elements

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

**Pictogram**



**Signal word** Danger

**Hazard statement(s)**

H301 Toxic if swallowed.

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H413	May cause long lasting harmful effects to aquatic life.

#### Precautionary statement(s)

P201	Obtain special instructions before use.
P261	Avoid breathing dust.
P264	Wash skin thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth.

#### 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.

Ecological information: 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.

Toxicological information: 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. May form explosible dust-air mixture if dispersed.

### SECTION 3: Composition / information on ingredients

#### 3.1 Substances

Common names & Synonyms	Mol. formula	CAS number
Butter Yellow 4-(Dimethylamino)azobenzene <i>N,N</i> -Dimethyl-4-(phenylazo)aniline Dimethyl Yellow	C <sub>14</sub> H <sub>15</sub> N <sub>3</sub>	60-11-7
Component	Classification	Concentration
Methyl Yellow	-	>= 90 - <= 100

### SECTION 4: First aid measures

#### Description of first aid measures

<b>General advice</b>	First aiders need to protect themselves. Show this safety data sheet to the doctor in attendance.
<b>If inhaled</b>	Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
<b>In case of skin contact</b>	Take off all contaminated clothing immediately. Wash off with plenty of water. Get medical advice/ attention.
<b>In case of eye contact</b>	Rinse with plenty of water. If easy to do, remove contact lens, if worn. Get medical advice/ attention.
<b>If swallowed</b>	Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.

Most important symptoms and effects, both acute and delayed	None known
Indication of any immediate medical attention and special treatment needed	None known

#### SECTION 5: Firefighting measures

<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Dry powder, Foam, Water spray, Carbon dioxide (CO <sub>2</sub> )
<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>	Special protective equipment for firefighters: Use personal protective equipment.  Specific extinguishing methods: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Immediately evacuate personnel to safe areas. Remove undamaged containers from fire area if it is safe to do so.
<b>Further information</b>	No data available

#### SECTION 6: Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Wear suitable protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.
<b>Environmental precautions</b>	Prevent product from entering drains.
<b>Methods and materials for containment and cleaning up</b>	Pick up and arrange disposal without creating dust.
<b>Reference to other sections</b>	See sections: 7, 8, 11, 12 and 13.

#### SECTION 7: Handling and storage

<b>Precautions for safe handling</b>	<b>Technical measures:</b> Prevent dispersion of dust. <b>Local/Total ventilation:</b> Ensure adequate ventilation. Handle product only in closed system or provide appropriate exhaust ventilation at machinery. Use a local exhaust ventilation. <b>Advice on safe handling:</b> Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Wash hands and face thoroughly after handling.
<b>Conditions for safe storage, including any incompatibilities</b>	Keep container tightly closed. Store in a cool and shaded area. Keep in a well-ventilated place. Store locked up.  Storage class (TRGS 510): 6.1C
<b>Specific end use(s)</b>	No information available.

#### SECTION 8: Exposure controls / Personal protection

<b>Control parameters</b>	Contains no substances with occupational exposure limit values.
<b>Exposure controls</b>	
<b>Appropriate engineering controls</b>	Install a closed system or local exhaust. Also install safety shower and eye bath.
<b>Personal protective equipment:</b>	
<b>Eye / face protection</b>	Safety glasses, Safety goggles, Face-shield
<b>Skin and Body protection</b>	Impervious protective clothing
<b>Hand protection</b>	Impervious gloves
<b>Respiratory protection</b>	Dustproof gas mask Self-contained breathing apparatus
<b>Control of environmental exposure</b>	Do not let product enter drains.

## SECTION 9: Physical and chemical properties

<b>Appearance</b>	Form: Solid Colour: yellow - orange
<b>Odour</b>	No data available
<b>pH - Value</b>	No data available
<b>Density</b>	No data available
<b>Boiling Point</b>	No data available
<b>Melting Point</b>	114 °C
<b>Solubility in water</b>	0.23 mg/l (25 °C)
<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>	4.58
<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>	No data available
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	None under normal processing.
<b>Condition to avoid</b>	No data available
<b>Incompatible materials</b>	Oxidizing agents, Acids,
<b>Hazardous decomposition products</b>	Carbon monoxide, Carbon dioxide (CO <sub>2</sub> ), Nitrogen oxides (NO <sub>x</sub> )

## SECTION 11: Toxicological information

<b>Acute toxicity</b>	Acute oral toxicity: LD50 (Rat): 200 mg/kg Assessment: The component/mixture is toxic after single ingestion. Acute toxicity (other routes of administration): LD50 (Rat): 230 mg/kg Application Route: Intraperitoneal injection
<b>Skin corrosion/irritation</b>	Skin irritation
<b>Serious eye damage/eye irritation</b>	Eye irritation
<b>Respiratory or skin sensitization</b>	No data available
<b>Germ cell mutagenicity</b>	Suspected of inducing heritable mutations in the germ cells of humans.
<b>Carcinogenicity</b>	Suspected human carcinogens
<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>	No data available
<b>Additional Information</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

Toxicity to fish	No data available
Toxicity to daphnia and other aquatic invertebrates	No data available
Toxicity to algae	No data available
Toxicity to bacteria	No data available
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	No data available
<b>Persistence and degradability</b>	No data available
<b>Bioaccumulation</b>	Partition coefficient: n-octanol/water (log value): 4.58
<b>Mobility in soil</b>	Distribution among environmental compartments: Koc: 7390
<b>Results of PBT and vPvB assessment</b>	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) 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>	No data available

## SECTION 13: Disposal considerations

<b>Waste treatment methods</b>	Disposal in accordance with local and national regulations. Entrust disposal to a licensed waste disposal company.
	<b>Contaminated packaging:</b> Disposal in accordance with local and national regulations. Before disposal of used container, remove contents completely.

## SECTION 14: Transport information

	UN no.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
<b>ADR / RID</b>	2811	TOXIC SOLID, ORGANIC, N.O.S.	6.1	III	no
<b>IMDG</b>	2811	TOXIC SOLID, ORGANIC, N.O.S.	6.1	III	-
<b>IATA</b>	2811	Toxic solid, organic, n.o.s.	6.1	III	-

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	Conditions of restriction for the following entries should be considered: Number on list 75 If you intend to use this product as tattoo ink, please contact your vendor.
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	Not applicable
Regulation (EC) on substances that deplete the ozone layer	Not applicable
Regulation (EC) No 850/2004 on persistent organic pollutants	Not applicable
Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	Not applicable
Water hazard class (Germany)	WGK 3 highly hazardous to water Classification according to AwSV, Annex 1 (5.2)

### 15.2 Other regulations:

The product is subject to the supply restrictions of the Ordinance on the Prohibition of Chemicals.

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act- MuSchG).

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

#### The components of this product are reported in the following inventories:

CH BAGREG	On the inventory, or in compliance with the inventory
TSCA	All substances listed as active on the TSCA inventory
AICS	On the inventory, or in compliance with the inventory
DSL	All components of this product are on the Canadian DSL
ENCS	On the inventory, or in compliance with the inventory
ISHL	On the inventory, or in compliance with the inventory
KECI	On the inventory, or in compliance with the inventory
PICCS	On the inventory, or in compliance with the inventory
IECSC	On the inventory, or in compliance with the inventory
NZIoC	On the inventory, or in compliance with the inventory

### 15.3 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

#### **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.