

# SAFETY DATA SHEET

according to 1907/2006/EC, Article 3

Revision date: 30/09/2023

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

1.1 Product identifiers

Product name PSR39841

Product Number Chloromethane solution

**Brand** PureSynth research chemicals

**CAS No.** 74-87-3

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

Identified uses : Laboratory Use

1.3 Details of the supplier of the safety data sheet

Company PureSynth Research Chemicals Pvt. Ltd.

A-27, A.P.I.E, Hyderabad, Telangana-500037

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

Flammable liquids (Category 2), H225

Acute toxicity, Oral (Category 3), H301

Acute toxicity, Inhalation (Category 3), H331

Acute toxicity, Dermal (Category 3), H311

Specific target organ toxicity - single exposure (Category 1), Eyes, Central nervous system,

H370

For the full text of the H-Statements mentioned in this Section, see Section 16.

# 2.2 Label elements

**Pictogram** 

# Labelling according Regulation (EC) No 1272/2008

Signal word Danger

**Hazard statement(s)** 

H225 Highly flammable liquid and vapor.

H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled.
H370 Causes damage to organs (Eyes, Central nervous system).

Precautionary statement(s)

P210 Keep away from heat, hot surfaces, sparks, open flames and



other ignition sources. No smoking.

P280 Wear protective gloves/ protective clothing/ eye protection/ face

protection.

P233 Keep container tightly closed.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

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

Rinse skin with water.

P304 + P340 + P311 IF INHALED: Remove person to fresh air and keep comfortable for

breathing. Call a POISON CENTER/ doctor.

Supplemental Hazard

Common names &

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

Synonyms	Mol. formula	CAS number	
	CH₃Cl	67-56-1	
Component	Classification	Concentration	
	Flam. Liq. 2; Acute Tox. 3; STOT SE 1; H225, H301, H331, H311, H370	<= 100 %	

Concentration limits: >= 10 %: STOT SE 1, H370; 3 - < 10 %: STOT SE 2,

H371;

#### **SECTION 4: First aid measures**

Methanol

If inhaled

If swallowed

Description	of first	aid ma	PACHIPAC

First aiders need to protect themselves. Show this material safety data **General advice** 

sheet to the doctor in attendance.

After inhalation: fresh air. Immediately call in physician. If breathing

stops: immediately apply artificial respiration, if necessary also

oxygen.

In case of skin contact: Take off immediately all contaminated In case of skin contact

clothing. Rinse skin with water/ shower. Call a physician immediately.

After eye contact: rinse out with plenty of water. Call in In case of eye contact

ophthalmologist. Remove contact lenses.

After swallowing: fresh air. Make victim drink ethanol (e.g. 1 drinking glass of a 40% alcoholic beverage). Call a doctor immediately (mention methanol ingestion). Only in exceptional cases, if no medical care is available within one hour, induce vomiting (only in fully conscious persons) and make victim drink ethanol again (approx. 0.3 ml of a 40%

alcoholic beverage/kg body weight/hour).

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** 

Suitable extinguishing media

Water Foam Carbon dioxide (CO2) Dry powder

Carbon oxides

Combustible.

Special hazards arising from the

substance or mixture

Advice for fire-fighters

**Further information** 

Pay attention to flashback.

Vapors are heavier than air and may spread along floors.

Development of hazardous combustion gases or vapours possible in

the event of fire.

Forms explosive mixtures with air at ambient temperatures. Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing

suitable protective clothing.

Remove container from danger zone and cool with water. 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**

Personal precautions, protective equipment and emergency

procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

**Environmental precautions** Do not let product enter drains. Risk of explosion.

Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected

area

**Reference to other sections** For disposal see section 13.

# **SECTION 7: Handling and storage**

Precautions for safe handling Work under hood. Do not inhale substance/mixture. Avoid generation of

vapours/aerosols.

Keep away from open flames, hot surfaces and sources of ignition. Take

precautionary measures against static discharge.

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For

precautions see section 2.2.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Keep locked up or in an area

accessible only to qualified or authorized persons.



Storage class (TRGS 510): 3: Flammable liquids

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** Components with workplace control parameters

**Exposure controls** 

Skin protection

Handle in accordance with good industrial hygiene and safety practice. Appropriate engineering controls

Wash hands before breaks and at the end of workday.

Personal protective equipment:

Use equipment for eye protection tested and approved under Eye / face protection

appropriate government standards such as NIOSH (US) or EN 166(EU).

Safety glasses

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves

(e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Splash contact Material: Viton® Minimum layer thickness: 0,7 mm Break through time: 120 min Material tested:Vitoject® (KCL 890 / Aldrich

Z677698, Size M)

**Body Protection** Flame retardant antistatic protective clothing.

> Recommended Filter type: Filter A (acc. to DIN 3181) for vapours of organic compounds The entrepeneur has to ensure that maintenance,

**Respiratory protection** cleaning and testing of respiratory protective devices are carried out

according to the instructions of the producer. These measures have to be

properly documented.

**Control of environmental** 

exposure

Do not let product enter drains. Risk of explosion.



# **SECTION 9: Physical and chemical properties**

Form: Liquid **Appearance** Colour: Colourless No data available Odour No data available pH - Value 0.791 g/cm3 Density 64.6 - 64.7 °C **Boiling Point** -98 °C **Melting Point** No data available Solubility in water No data available Flash point No data available Vapour pressure No data available Auto -ignition temperature No data available Vapour density Flammability (solid, gas) No data available 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** 

Other safety information: No data available



## **SECTION 10: Stability and reactivity**

**Reactivity** Vapors may form explosive mixture with air.

The product is chemically stable under standard ambient conditions ,

(room temperature).

Possibility of hazardous reactions No data available

Condition to avoid Warming

Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals,

Reducing agents, Acids

Hazardous decomposition products In the event of fire: see section 5

# **SECTION 11: Toxicological information**

**Acute toxicity** 

Acute toxicity estimate Oral - 100,12 mg/kg

(Calculation method)

Acute toxicity estimate Oral - 100,1 mg/kg

(Expert judgment)

Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI

(Table 3.1/3.2)

Symptoms: Nausea, Vomiting

Acute toxicity estimate Inhalation - 4 h - 3,1 mg/l - vapor(Calculation

method)

Acute toxicity estimate Inhalation - 4 h - 3,1 mg/l - vapor

Skin - Rabbit

Result: No skin irritation

Skin corrosion/irritation Remarks: (ECHA)

Remarks: Drying-out effect resulting in rough and chapped skin.

Eyes - Rabbit

Serious eye damage/eye irritation Result: No eye irritation

Remarks: (ECHA)

Sensitisation test: - Guinea pig

**Respiratory or skin sensitization** Result: negative

(OECD Test Guideline 406)

Based on available data the classification criteria are not met.

Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster lung cells

Germ cell mutagenicity Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Test Type: Micronucleus test

Species: Mouse

Cell type: Bone marrow

Application Route: Intraperitoneal injection

Method: OECD Test Guideline 474

Result: negative

Carcinogenicity Did not show carcinogenic effects in animal experiments.



Reproductive toxicity

Based on available data the classification criteria are not met

Mixture causes damage to organs. - Eyes, Central nervous system

Specific target organ toxicity - single

exposure

Specific target organ toxicity -

repeated exposure

No data available

**Aspiration hazard** 

**Additional Information** 

No data available No data available

**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. Methyl alcohol may be fatal or cause blindness if swallowed. Effects due to ingestion may include:, Headache, Dizziness, Drowsiness, metabolic acidosis, Coma, Seizures. Symptoms may be delayed., Damage of the:, Liver, Kidney Acute effects:, Headache, Dizziness, Drowsiness, narcosis, Blindness, Impairment of vision, irritant effects, Nausea, Vomiting,

agitation, spasms, inebriation, Coma Drying-out effect resulting in rough and chapped skin. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly

investigated. Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

Assessment

# **SECTION 12: Ecological information**

**Toxicity** 

Flow-through test LC50 - Lepomis macrochirus (Bluegill) - 15.400,0 Toxicity to fish

mg/I - 96 h (US-EPA)

Toxicity to daphnia and other aquatic

invertebrates

Semi-static test EC50 - Daphnia magna (Water flea) - 18.260 mg/l -

96 h (OECD Test Guideline 202)

Static test ErC50 - Pseudokirchneriella subcapitata (green algae) - ca. Toxicity to algae

22.000,0 mg/l - 96 h (OECD Test Guideline 201)

tatic test IC50 - activated sludge - > 1.000 mg/l - 3 h Toxicity to bacteria

(OECD Test Guideline 209)

Biodegradability aerobic - Exposure time 28 d Result: 9.9 % - Not Persistence and degradability

readily biodegradable. (OECD Test Guideline 301D)

No data available **Biodegradability** 

Bio accumulative potential No data available Mobility in soil No data available

This substance/mixture contains no components considered to be Results of PBT and vPvB assessment

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.

Other adverse effects

# **SECTION 13: Disposal considerations**

**Endocrine disrupting properties** 

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	1230	METHANOL, SOLUTION	3 (6.1)	II	No
IMDG	1230	METHANOL, SOLUTION	3 (6.1)	II	No
IATA	1230	Methanol, SOLUTION	3 (6.1)	II	No

Passenger Aircraft: Not permitted for transport

# **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.

# Authorisations and/or restrictions on use

REACH - Restrictions on the manufacture,

placing on the market and use of certain : Methanol

dangerous substances, mixtures and articles

(Annex XVII)

#### **National legislation**

Seveso III: Directive 2012/18/EU of the European

Parliament and of the Council on the control of : ACUTE TOXIC

major-accident hazards involving dangerous

substances.

# Other regulations

Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable.

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.