

SAFETY DATA SHEET

according to 1907/2006/EC, Article 3

Version no. : 2.0
Prepared on : 24.06.2026
Revised on : -

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

1.1 Product identifiers

Product name Chloroethane solution (in THF)
Product Number PSI777
Brand PureSynth research chemicals
CAS No. 25561-30-2

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 Pvt. Ltd.
FB-121, High Street mall, Kapurbawdi junction, Thane (W)

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: Highly flammable liquid and vapour.
Acute toxicity, Category 4	H302: Harmful if swallowed.
Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Carcinogenicity, Category 2	H351: Suspected of causing cancer
Reproductive toxicity, Category 1B	H360: May damage fertility or the unborn child.
Specific target organ toxicity - single exposure, Category 1	H370: Causes damage to organs.
Specific target organ toxicity - single exposure, Category 3, Respiratory system	H335: May cause respiratory irritation.
Specific target organ toxicity - repeated exposure, Category 1	H372: Causes 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)

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H360	May damage fertility or the unborn child.
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.

Precautionary statement(s)

P201	Obtain special instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe mist or vapours.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response:

P308 + P311	IF exposed or concerned: Call a POISON CENTER/ doctor.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Supplemental Hazard Statements

EUH019	May form explosive peroxides.
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2.3 Other hazards:

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.

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.

SECTION 3: Composition / information on ingredients

3.1 Substances

Common names & Synonyms	Mol. formula	CAS number
Ethyl Chloride (in Tetrahydrofuran)	C ₂ H ₅ Cl	75-00-3
Component	Classification	Concentration
Tetrahydrofuran	Flam. Liq. 2; H225 Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Carc. 2; H351 STOT SE 2; H371 (Nervous system) STOT SE 3; H335 (Respiratory system) STOT RE 1; H372 (Liver, Nervous system,	>= 70 - < 90 %

Chloroethane

Kidney) EUH019
specific concentration limit Eye
Irrit. 2; H319 >= 25 % STOT SE 3;
H335 >= 25 %
Flam. Gas 1; H220 Press. Gas >= 10 - < 20 %
Liquefied gas; H280 Skin Irrit. 2;
H315 Eye Irrit. 2; H319 Carc. 2;
H351 Repr. 1B; H360 STOT SE 1;
H370 (Respiratory organs, Heart)
STOT SE 2; H371 (Liver) STOT SE 3;
H336 (Central nervous system)
STOT RE 1; H372 (Nervous system)
Aquatic Chronic 3; H412

SECTION 4: First aid measures

Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance.
If inhaled	Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician.
In case of skin contact	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.
In case of eye contact	After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.
If swallowed	Call a POISON CENTER or doctor/ physician. Rinse mouth.
Most important symptoms and effects, both acute and delayed	No data available
Indication of any immediate medical attention and special treatment needed	No data available

SECTION 5: Fire fighting measures

Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂) Foam Dry powder Water spray

Special hazards arising from the substance or mixture

Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.

Advice for fire-fighters

Use personal protective equipment.
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.

Further information

No data available

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear suitable protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to noninvolved personnel should be controlled around the leakage area by roping off, etc.

Environmental precautions

Prevent product from entering drains.

Methods and materials for containment and cleaning up

Collect as much of the spill as possible with a suitable absorbent material.

Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

Precautions for safe handling

Technical measures

Prevent generation of vapour or mist. Take precautionary measures against static discharge. Use explosion-proof equipment.

Local/Total ventilation

Ensure adequate ventilation. Handle product only in closed system or provide appropriate exhaust ventilation at machinery. Use a local exhaust ventilation.

Advice on safe handling

Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wash hands and face thoroughly after handling. Confirm in advance if peroxides exist when operations involving heating such as distillation are carried out.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in a refrigerator. Keep in a wellventilated place. Use explosion-proof equipment. Keep under inert gas. Store locked up.

Specific end use(s)

Storage class (TRGS 510): 3

No data available

SECTION 8: Exposure controls / Personal protection

Control parameters

Ingredients with workplace control parameters

Exposure controls

Appropriate engineering controls

Install a closed system or local exhaust. Also install safety shower and eye bath.

Personal protective equipment:

Eye / face protection

Safety glasses, Safety goggles, Face-shield

Skin protection

Impervious protective clothing

Body Protection

Impervious protective clothing

Respiratory protection

Gas mask Self-contained breathing apparatus

Control of environmental exposure

Do not let product enter drains. Risk of explosion

SECTION 9: Physical and chemical properties

Appearance	Form: Liquid
	Colour: Colourless
Odour	No data available
pH - Value	No data available
Density	No data available
Boiling Point	No data available
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	No data available
Flammability (solid, gas)	No data available
Evaporation rate	No data available
Partition coefficient: n- octanol / water	No data available
Viscosity	Viscosity, kinematic: No data available Viscosity, dynamic: 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	Stable under normal conditions.
Possibility of hazardous reactions	Reacts with air to form peroxides.
Condition to avoid	Heat, Electrical spark, Open flame, Electrostatic discharge, Exposure to air.
Incompatible materials	Oxidizing agents, Alkali metals, Aluminium, Zinc.
Hazardous decomposition products	Carbon monoxide, Carbon dioxide (CO ₂), Hydrogen chloride gas

SECTION 11: Toxicological information

Acute toxicity

Components: Tetrahydrofuran

Acute oral toxicity	LD50 (Rat): 1.650 mg/kg Assessment: The component/mixture is moderately toxic after single ingestion.
Acute inhalation toxicity	LC50 (Rat): 21000 ppm Exposure time: 3 h Test atmosphere: gas Assessment: The substance or mixture has no acute inhalation toxicity
Acute toxicity (other routes of administration)	LD50 (Rat): 2.900 mg/kg Application Route: Intraperitoneal injection
Components: Chloroethane	

Acute inhalation toxicity	LC50 (Rat): > 19000 ppm Exposure time: 4 h Test atmosphere: gas Assessment: The substance or mixture has no acute inhalation toxicity
Skin corrosion/irritation	Remarks: Causes skin irritation.
Serious eye damage/eye irritation	Remarks: Causes eye irritation.
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	Suspected human carcinogens
Reproductive toxicity	Presumed human reproductive toxicant
Specific target organ toxicity - single exposure	
Tetrahydrofuran	Target Organs: Nervous system May cause damage to organs May cause respiratory irritation
Chloroethane	Target Organs: Respiratory organs, Heart, Liver Causes damage to organs.
Specific target organ toxicity - repeated exposure	
Tetrahydrofuran	Target Organs: Liver, Nervous system, Kidney Assessment: Causes damage to organs through prolonged or repeated exposure.
Chloroethane	Target Organs: Nervous system Assessment: Causes damage to organs through prolonged or repeated exposure
Aspiration hazard	No data available
Additional 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.

SECTION 12: Ecological information

Toxicity

Components: Tetrahydrofuran

Toxicity to fish LC50 (Pimephales promelas (fathead minnow)): 2.160 mg/l Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates EC50 (Daphnia magna (Water flea)): 5.930 mg/l Exposure time: 24 h

Components: Chloroethane

Toxicity to daphnia and other aquatic invertebrates EC50 (Daphnia magna (Water flea)): 58 mg/l Exposure time: 48 h

Toxicity to algae EC50 (Pseudokirchneriella subcapitata (green algae)): 118 mg/l Exposure time: 72 h

Toxicity to bacteria No data available

Ecotoxicology Assessment

Acute aquatic toxicity Harmful to aquatic life

Chronic aquatic toxicity Harmful to aquatic life with long lasting effects.

Persistence and degradability
Result: Readily biodegradable.
Biodegradation: 100 %

Related to: Biochemical oxygen demand

Bio accumulative potential

Components: Tetrahydrofuran

Partition coefficient: noctanol/water (log value): 0.46

Partition coefficient: noctanol/water (log value): 1.54

Mobility in soil

Distribution among environmental compartments : Koc: 18 - 23

Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative or toxic (PBT), or very persistent and very bioaccumulative (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

No data available

SECTION 13: Disposal considerations

Waste treatment methods

Products

Disposal in accordance with local and national regulations. Take precautions against ignition or explode. Entrust disposal to a licensed waste disposal company.

Contaminated packaging

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
ADR / RID	1993	FLAMMABLE LIQUID, N.O.S.	3	II	no
IMDG	1993	FLAMMABLE LIQUID, N.O.S.	3	II	no
IATA	1993	Flammable liquid, n.o.s.	3	II	no

SECTION 15: Regulatory information

15.1 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

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, 3

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 (EU) No 2024/590 on substances that deplete the ozone layer

Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast)

Not applicable

REACH - List of substances subject to authorisation (Annex XIV)

Not applicable

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.

15.2 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.