

SAFETY DATA SHEET

according to 1907/2006/EC, Article 3

Revision date: 30/03/2019

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

1.1 Product identifiers

Product name 2-Pentanone
Product Number PSR46471

Brand PureSynth research chemicals

CAS No. 107-87-9

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

Identified uses : Standard for GC

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.: 1800-120-1234-34

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 vapor.

Acute toxicity, (Category 4) H302: Harmful if swallowed.

Eye irritation, (Category 2) H319: Causes serious eye irritation.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram

Signal word Danger

Hazard statement(s)

H225 Flammable liquid and vapor.
 H302 Harmful if swallowed.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H335 May cause respiratory irritation.

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.
P301 + P312	IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Supplemental Hazard Statements	none

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.

SECTION 3: Composition / information on ingredients

3.1 Substances

Common names & Synonyms	Mol. formula	CAS number	
Methyl propyl ketone	C5H10O	107-87-9	
Component	Classification	Concentration	
Methyl propyl ketone	Flam. Liq. 2; Acute Tox. 4; Eye Irrit. 2; Carc. 2; STOT SE 3; H225, H302, H319, H351, H336, H335 Concentration limits: >= 25 %: Eye Irrit. 2, H319; >= 25 %: STOT SE 3, H335;	<= 100 %	

SECTION 4: First aid measures

Description of first aid measures

General advice Show this material safety data sheet to the doctor in attendance.

If inhaled After inhalation: fresh air.

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

clothing. Rinse skin with water/ shower.

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

ophthalmologist. Remove contact lenses.

After swallowing: immediately make victim drink water (two glasses at If swallowed

most). Consult a physician.

Most important symptoms and The most important known symptoms and effects are described in the effects, both acute and delayed

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

Carbon dioxide (CO2) Foam Dry powder **Extinguishing media**

For this substance/mixture no limitations of extinguishing agents are Unsuitable extinguishing media

given

Carbon oxides Combustible.

Special hazards arising from the

Pay attention to flashback.

Vapors are heavier than air and may spread along floors. substance or mixture

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. Prevent **Further information** fire extinguishing water from contaminating surface water or the

ground water system.

SECTION 6: Accidental release measures

Advice for fire-fighters

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.

Cover drains. Collect, bind, and pump off spills. Observe Methods and materials for possible material restrictions (see sections 7 and 10). containment and cleaning up Take up 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.

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 Ingredients with workplace control parameters

Exposure controls Personal protective equipment

Appropriate engineering controls

Personal protective equipment:

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Tightly fitting safety goggle

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 EN 16523-1 please contact the supplier of CE-approved

gloves (e.g. KCL GmbH, D-36124 Eichenzell,

Internet: www.kcl.de).

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm Break through time: 480 min

Material tested: KCL 741 Dermatril® 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 EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL

GmbH, D-36124 I, Internet: www.kcl.de). Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm Break through time: 480 min

Material tested: KCL 741 Dermatril® L

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, 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

Respiratory protection

exposure

Skin protection

Do not let product enter drains. Risk of explosion.

SECTION 9: Physical and chemical properties

Appearance Form: liquid

Colour: No data available

Odouracetone-likepH - ValueNo data availableDensityNo data available

Boiling PointNo data availableMelting PointNo data available



Solubility in water miscible

Flash pointNo data availableVapour pressureNo data availableAuto -ignition temperatureNo data availableVapour densityNo data availableFlammability (solid, gas)No data availableEvaporation rateNo data availablePartition coefficient: n- octanol / waterNo data available

Viscosity

No data available

Explosive properties

No data available

Upper / lower flammability or explosive limits No data available

Oxidizing properties none

Other safety information: No data available

SECTION 10: Stability and reactivity

Reactivity Formation of peroxides possible.

Vapors may form explosive mixture with air.

Sensitivity to light Sensitive to air.

Chemical stability The product is chemically stable under standard ambient conditions

(room temperature). Stable under recommended storage

conditions.

Possibility of hazardous reactions No data available

Distillation (Risk of explosion).

Warming. Moisture.

Incompatible materials No data available

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

SECTION 11: Toxicological information

Condition to avoid

LD50 Oral - Rat - male and female - 1.650 mg/kg

Acute toxicity Symptoms: Irritation of mucous membranes

Acute toxicity estimate Oral - 1.650 mg/kg Skin - Rabbit Result: No skin irritation - 72 h

Skin corrosion/irritation Remarks: Repeated or prolonged exposure may cause skin irritation

and dermatitis, due to degreasing properties of the product

Serious eye damage/eye irritation Eyes - Rabbit Result: Causes serious eye irritation.

Respiratory or skin sensitization Local lymph node assay (LLNA) - Mouse Result: negative

Germ cell mutagenicity

Test Type: Ames test Test system: S. typhimurium Metabolic

activation: with and without metabolic activation

Carcinogenicity Suspected of causing cancer.

Reproductive toxicity No data available

Specific target organ toxicity - single

exposure

Inhalation - May cause respiratory irritation. - Central nervous system

Specific target organ toxicity -

repeated exposure

No data available

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.

Prolonged or repeated exposure to skin causes defatting and dermatitis., Cough, Shortness of breath, Headache, Nausea, Vomiting, Incoordination., Inhalation of high concentrations may cause:, Central nervous system depression, To the best of our knowledge, the chemical, physical, and toxicological properties have not been

thoroughly investigated.

SECTION 12: Ecological information

Toxicity

flow-through test LC50 - Pimephales promelas (fathead minnow) - 2.160 mg/l - 96 h Toxicity to fish

Toxicity to daphnia and other

aquatic invertebrates

static test EC50 - Daphnia magna (Water flea) - 3.485 mg/l - 48 h

No data available Toxicity to bacteria No data available Toxicity to algae

No data available Persistence and degradability

aerobic Biochemical oxygen demand - Exposure time 28 d Result: 39 % - Not readily biode **Biodegradability** No data available

Bio accumulative potential No data available Mobility in soil

This substance/mixture contains no components considered to be either persistent, bioac Results of PBT and vPvB assessment (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

The substance/mixture does not contain components considered to have endocrine disru **Endocrine disrupting properties**

according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or C

(EU) 2018/605 at levels of 0.1% or higher.

Other adverse effects No data available

SECTION 13: Disposal considerations

Offer surplus and non-recyclable solutions to a licensed disposal company. Waste

Waste treatment methods **Products**

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	1249	METHYL PROPYL KETONE	3	II	no
IMDG	1249	METHYL PROPYL KETONE	3	II	no
IATA	1249	METHYL PROPYL KETONE	3	II	no

SECTION 15: Regulatory information



This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Chemical safety assessment

A Chemical Safety Assessment has been carried out 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.