



山东贵恒化工科技有限公司
Shandong GH Chemicals Co., Ltd

Material Safety Data Sheet

(MSDS)

Description in Chinese: 丙酸丙酯

Description in English: Propyl Propionate (PP)

Molecular Formula: C₆H₁₂O₂

CAS No.: 106-36-5

UN No.: 3272

Shandong GH Chemicals Co., Ltd



Material Safety Data Sheet

Section 1-Chemical Product and Company Identification

Product Identification

Chemical Name: Propyl Propionate (PP)

Synonyms: 1-propylpropanoate, n-Propyl n-propionate, n-Propyl propanoate, propanoicacid, propylester, propanoicacidpropylester, Propylester kyseliny propionove, propylesterkyselinypropionove.

CAS No.: 106-36-5

Molecular Weight: 116.1583

Chemical Formula: C₆H₁₂O₂

Manuf. : Shandong GH Chemicals Co., Ltd

Add: No.436, wing building of Tai'an Transport Group Ltd, Ningyang County, Tai'an City, Shandong Province, P. R. China

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Section 2-Composition and Information on Ingredients

CAS #	Chemical Name	Content (%)	EINECS #
106-36-5	Propyl Propionate	99.93%	203-389-7

Section 3-Hazards Identification


EMERGENCY OVERVIEW

Classification of the Substance or Mixture

Flammable liquids, Category3, H226

Acute toxicity, inhalation (Category 4), H332

2.2GHS label elements, including precautionary statements

Pictogram(s)	
Signal word	Warning
Hazard statement(s)	H226 Flammable liquid and vapor H332 Harmful if inhaled
Precautionary statement(s)	
Prevention	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 Avoid breathing dust/fume/gas/mist/vapors/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. Rinse skin with water/shower.
Response	P303+P361+P353 IF ON SKIN (or hair): Take off immediate all contaminated clothing.



	P370+P378 In case of fire: Use ... to extinguish.
Storage	P403+P235 Store in a well-ventilated place. Keep cool.
Disposal	P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards

Result of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

Section 4-First Aid Measures

Description of Necessary First-aid Measures

In case of inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptom persists. Seek immediate medical attention.

In case of skin contact

Instantly wash with water and soap and rinse thoroughly.

Seek immediate medical attention.

In case of eye contact

Rinse opened eye(s) for several minutes with running water. Then consult doctor.

In case of swallowing

Seek medical treatment.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult doctor.

Most important symptoms/effects, acute and delayed

N/A

Immediate First Aid

N/A

Section 5-Firefighting Measures

Extinguishing Media

Use dry chemical, carbon dioxide, sand. Do not use water.

Special Hazards Arising from the Chemical

If this product is involved in a fire, the following can be released:

Carbon monoxide and carbon dioxide

Special protective actions for fire-fighters

Wear self-contained breathing apparatus; wear full protective suit.

Section 6-Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation. Keep away from ignition sources.

Environmental Precautions



Do not allow material to be released to environment **without proper governmental permits.**

Methods and material for contaminant and cleaning up

Keep away from ignition sources.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

Prevention of secondary hazards

Keep away from ignition sources.

Section 7-Handling &Storage

Precautions for Safe Handling

Keep containers tightly sealed.

Store in cool, dry place in tightly closed containers.

Ensure good ventilation/exhaustion at workplace.

Information about protection against explosive mixture

Keep ignition sources away. No smoking.

Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and containers

N/A

Information about storage in one common storage facility

Store away from oxidizing agents.

Further information about storage conditions

Keep container tightly sealed.

Keep in cool, dry conditions in well sealed containers.

Specific end use(s). No further relevant information available.

Section 8-Exposure Controls &Personal Protection

Control Parameters

Occupational Exposure Limit Values: N/A

Biological Limit Values: N/A

Appropriate Engineering Controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Individual protection measures, such as personal protective equipment (PPE)

The usual precautionary measures should be adhered to while handling the chemicals.

Keep away from foodstuff, beverage and food.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Maintain an ergonomically appropriate working environment.

Breathing equipment

Use breathing protection with high concentrations.

Protection of hands

Check protective gloves prior to each use for their proper condition.

The selection of the suitable gloves does not only depend on the material, but also on further



marks of quality and varies from manufacturer to manufacturer.

Materials of gloves

Impervious gloves

Penetration time of glove material (in minutes): N/A

Eye protection: Safety goggles

Body protection: Wear protective working clothing.

Section 9-Physical and Chemical Properties

Physical state	Clear, pale yellow liquid
Odor	N/A
pH	N/A
Melting Point	-76 °C
Boiling Point	122-124 °C(lit.)
Flammability	N/A
LEL (v,%)	N/A
UEL (v,%)	N/A
Flash Point	19 °C
Auto-ignition Temperature	N/A
Decomposition Temperature	N/A
Kinematic Viscosity	N/A
Refractive Index	N/A
Combustion Heat	N/A
Water Solubility	5g/L
Heat of Vaporization	8382KJ/Kmol
Partition Coefficient N-Octanol/Water (Log Value)	log Kow = 0.23 (est)
Vapor Pressure	13.5hPa at 20 °C
Density	0.8809g/mL at 20 °C(lit.)
Evaporation Rate	N/A
Particle Characteristics	N/A

Section 10-Stability & Reactivity

Stability: Stable under recommended storage conditions

Conditions to Avoid: Heat, flames and sparks

Incompatibilities: Strong oxidizing agents, strong bases, strong reducing agents

Hazardous Decomposition Products: Carbon oxide,

Hazardous Polymerization: Not reported

Possibility of Hazardous Reactions: N/A

Section 11-Toxicological Information

Acute Toxicity

Harmful if inhaled.

LD50: N/A

N/A



Skin Corrosion/Irritation: May cause irritation
Serious Eye Damage/Irritation: May cause irritation
Sensitization: No sensitizing effect known
Germ Cell Mutagenicity: N/A
Carcinogenicity: No classification data on carcinogenic properties of this materials is available from the EPA, IARC, NTP, OSHA or ACGIH
Reproductive Toxicity: N/A
STOT-Single Exposure: N/A
STOT-Repeated Exposure: N/A
Aspiration Hazard: N/A

Section 12-Ecological Information

Toxicity

Toxicity to Fish: N/A
Toxicity to Daphnia And Other Aquatic Invertebrates: N/A
Toxicity to Algae: N/A
Toxicity to Microorganisms: N/A

Persistence and Degradability: N/A

Bio-accumulative Potential: N/A

Mobility in Soil: N/A

Additional ecological information:

General notes

Do not allow material to be released to the environment without proper governmental permits.
Generally not hazardous for water.
Avoid transfer into the environment.
Results of PBT and vPvB assessment.
PBT: N/A
vPvB: N/A
Other adverse effects: N/A

Section 13-Disposal Consideration

Disposal Methods

Hand over to disposers of hazardous waste.
Must be specially treated under adherence to official regulations.
Consult state, local or national regulations for proper disposal.

Contaminated Packaging

Disposal must be made according to official regulations.

Section 14-Transport Information

UN Number

ADR/RID: UN3272

IMDG: UN3272

IATA: 3272

UN Proper Shipping Name

ADR/RID: ESTER, N.O.S (Propyl propionate)

IMDG: ESTER, N.O.S (Propyl propionate)

