

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product name : Methyl Acetate [Standard Material for GC]
Product code : S0300

Manufacturer or supplier's details

Company :
Address :
China
Telephone :
Telefax :
E-mail address :
Emergency telephone :

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance : liquid
Color : colorless

Highly flammable liquid and vapor. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. Causes damage to organs (Nervous system).

GHS Classification

Flammable liquids : Category 2
Serious eye damage/eye irritation : Category 2A
Specific target organ toxicity - single exposure : Category 1 (Nervous system)
Specific target organ toxicity - single exposure : Category 3 (respiratory tract irritation, Narcotic effects)

GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H225 Highly flammable liquid and vapor.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H370 Causes damage to organs (Nervous system).

Precautionary Statements : **Prevention:**
P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

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.

P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Physical and chemical hazards

Highly flammable liquid and vapor.

Health hazards

Causes serious eye irritation. Causes damage to organs. May cause drowsiness or dizziness. May cause respiratory irritation.

Environmental hazards

Not classified based on available information.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Components

Chemical name	CAS RN	Concentration (% w/w)
Methyl Acetate	79-20-9	99.5

4. FIRST AID MEASURES

If inhaled : Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER or doctor/ physician.

In case of skin contact : Take off all contaminated clothing immediately.
If on skin, rinse well with water.
Call a POISON CENTER or doctor/ physician.

In case of eye contact : Rinse with plenty of water.
If easy to do, remove contact lens, if worn.
Call a POISON CENTER or doctor/ physician.

If swallowed	:	Call a POISON CENTER or doctor/ physician. Rinse mouth.
Most important symptoms and effects, both acute and delayed	:	None known.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Dry powder, Foam, Water spray, Carbon dioxide (CO2)
Specific hazards during fire fighting	:	No information available.
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.
Special protective equipment for fire-fighters	:	Use personal protective equipment.

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 non-involved 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.

7. HANDLING AND STORAGE

Handling

Technical measures	:	Prevent generation of vapor 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. Do not subject to grinding, shock or friction. Wash hands and face thoroughly after handling.
Avoidance of contact	:	Oxidizing agents, Acids, Bases

Storage

Conditions for safe storage	:	Keep container tightly closed. Store in a cool and shaded area. Keep in a well-ventilated place. Use explosion-proof equipment.
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Store locked up.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS RN	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Methyl Acetate	79-20-9	PC-TWA	200 mg/m3	CN OEL
		PC-STEEL	500 mg/m3	CN OEL
		TWA	200 ppm	ACGIH
		STEEL	250 ppm	ACGIH

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

Personal protective equipment

Respiratory protection : Gas mask
Self-contained breathing apparatus

Eye/face protection : Safety glasses
Safety goggles
Face-shield

Skin and body protection : Impervious protective clothing

Hand protection : Impervious gloves

*Use personal protective equipment(PPE) approved under appropriate government standards and follow local and national regulations.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : colorless

Odor : No data available

Odor Threshold : 4.6 ppm

pH : No data available

Melting point/freezing point : No data available

Boiling point/boiling range : 57 °C

Flash point : -16 °C

Evaporation rate : No data available

Flammability : No data available

Upper explosion limit / Upper flammability limit : 16 %(V)

Lower explosion limit / Lower flammability limit : 3.1 %(V)

Vapor pressure : 21.7 kPa (20 °C)

Relative vapor density : 2.6

Relative density	:	0.94
Solubility(ies)		
Water solubility	:	240 g/l soluble (20 °C)
Solubility in other solvents	:	completely miscible Solvent: Ether
		completely miscible Solvent: Alcohol
		soluble Solvent: Benzene
		soluble Solvent: Acetone
		soluble Solvent: Chloroform
Partition coefficient: n-octanol/water (log value)	:	0.18
Autoignition temperature	:	455 °C
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Molecular weight	:	74.08 g/mol

10. STABILITY AND REACTIVITY

Reactivity	:	No data available
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	None under normal processing.
Conditions to avoid	:	Electrical spark Open flame Electrostatic discharge
Incompatible materials	:	Oxidizing agents, Acids, Bases
Hazardous decomposition products	:	Carbon monoxide, Carbon dioxide (CO ₂)

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Components:

Methyl Acetate:

Acute oral toxicity	:	LD50 (Rat): > 5 g/kg Assessment: The substance or mixture has no acute oral toxicity
Acute inhalation toxicity	:	LCLo (Rat): 32000 ppm Exposure time: 4 h

Test atmosphere: gas
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 5 g/kg
Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation : No information available.

Serious eye damage/eye irritation

Product:

Result : Mild eye irritation

Components:

Methyl Acetate:

Result : Mild eye irritation

Respiratory or skin sensitization : No information available.

Germ cell mutagenicity : No information available.

Carcinogenicity : No information available.

Reproductive toxicity : No information available.

STOT-single exposure

Product:

Assessment : May cause respiratory irritation.

Target Organs : Nervous system

Assessment : Causes damage to organs.

Components:

Methyl Acetate:

Assessment : May cause respiratory irritation.

Target Organs : Nervous system

Assessment : Causes damage to organs.

STOT-repeated exposure : No information available.

Repeated dose toxicity : No information available.

Aspiration toxicity : No information available.

RTECS No. : AI9100000 (Methyl Acetate)

12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential**Components:****Methyl Acetate:**

Partition coefficient: n-octanol/water (log value) : 0.18

Mobility in soil**Components:****Methyl Acetate:**

Distribution among environmental compartments : Koc: 30

Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : 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.

14. TRANSPORT INFORMATION**International Regulations****IATA-DGR**

UN/ID No. : UN 1231
Proper shipping name : Methyl acetate
Class : 3
Packing group : II

IMDG-Code

UN number : UN 1231
Proper shipping name : METHYL ACETATE
Class : 3
Packing group : II
EmS Code : F-E, S-D

Domestic regulation**GB 6944/12268**

UN number : UN 1231
Proper shipping name : METHYL ACETATE
Class : 3
Packing group : II

15. REGULATORY INFORMATION**Regulations on Safety Management of Hazardous Chemicals**

Catalogue of Hazardous Chemicals : Listed

The ingredients 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

16. OTHER INFORMATION

Revision Date : 2025/02/22
Date format : yyyy/mm/dd

Disclaimer

This SDS was prepared sincerely based on the information obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling operations, sufficient care should be taken, in addition to the safety measures suitable for the given situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.