# Eastman(TM) Methyl Acetate



Version Revision Date: SDS Number: 2.6 21.12.2022 150000001121

PRD SDSAU / EN / 0001 Date of last issue: 19.04.2021 Date of first issue: 27.08.2012

#### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : Eastman(TM) Methyl Acetate

09051-00, P0905105, E0905101, P0905106, P0905107, Product code

P0905108, P0905100, 82000107

Manufacturer or supplier's details

China Amines Co., Ltd Company

UNIT 1021, BEVERLEY COMMERCIAL CENTRE, 87-105CHATHAM Address

ROAD SOUTH, TSIM SHA TSUI, KOWLOON HONG KONG

Telephone +86 18938922889

+86 18938922889 Emergency telephone number

Recommended use of the chemical and restrictions on use

Recommended use Solvent

Restrictions on use None known.

### **SECTION 2. HAZARDS IDENTIFICATION**

**GHS** Classification

Flammable liquids : Category 2

Serious eye damage/eye irri-

tation

Category 2A

single exposure

Specific target organ toxicity - : Category 2 (Eyes, Central nervous system)

single exposure

Specific target organ toxicity - : Category 3 (Respiratory system, Central nervous system)

**GHS** label elements

Hazard pictograms







Signal word Danger

Hazard statements H225 Highly flammable liquid and vapour.

> H319 Causes serious eye irritation. H335 May cause respiratory irritation.

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H336 May cause drowsiness or dizziness.

H371 May cause damage to organs (Eyes, Central nervous

system).

Precautionary statements

### Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment. P241 Use explosion-proof electrical/ ventilating/ lighting equipment

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P260 Do not breathe mist or vapours.

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/ protective clothing/ eye protection/ face protection/ hearing protection.

#### Response:

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.

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.

#### Other hazards which do not result in classification

None known.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Components

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Chemical name	CAS-No.	Concentration (% w/w)
methyl acetate	79-20-9	>= 60 -<= 100
methanol	67-56-1	>= 1 -< 10

Eastman is committed to the safety, health and environment of our employees, our customers, and the communities we operate within. As part of this commitment, Eastman's Safety Data Sheets (SDS) are prepared in accordance with all applicable national and local regulations. The compositions of our documents reflect these requirements which include, but are not limited to, requirements under the Globally Harmonized System of Classification and Labeling (GHS). These compositions commonly involve the use of ranges versus specific analytical values. If you require a composition that is more specific, please refer to the Certificate of Analysis, sales specification, or contact your Customer Service Representative.

#### **SECTION 4. FIRST AID MEASURES**

If inhaled : Remove to fresh air.

Get medical advice/ attention.

Treat symptomatically.

In case of skin contact : Wash off with soap and water.

If symptoms persist, call a physician.

Destroy or thoroughly clean contaminated shoes.

In case of eye contact : In case of contact, immediately flush eyes with plenty of water

for at least 15 minutes.

Get medical advice/ attention.

If swallowed : If swallowed, DO NOT induce vomiting unless directed to do

so by medical personnel.

Most important symptoms

and effects, both acute and

delayed

Causes serious eye irritation.

May cause respiratory irritation.

May cause drowsiness or dizziness.

Causes damage to organs.

Notes to physician : Treat symptomatically.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Use water spray to extinguish.

Dry chemical

Carbon dioxide (CO2)

Foam

Unsuitable extinguishing

media

None known.

Specific hazards during fire-

fighting

Prevent buildup of vapors or gases to explosive concentra-

tions.

Hazardous combustion prod- : No hazardous combustion products are known

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ucts

Specific extinguishing meth-

ods

Highly flammable liquid and vapour.

Prevent buildup of vapors or gases to explosive concentra-

tions.

Material will float and may ignite on surface of water.

Special protective equipment

for firefighters

Wear an approved positive pressure self-contained breathing

apparatus in addition to standard fire fighting gear.

Hazchem Code : •2YE

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protec- :

tive equipment and emer-

gency procedures

Wear appropriate personal protective equipment.

Local authorities should be advised if significant spillages

cannot be contained.

Environmental precautions : Avoid release to the environment.

Methods and materials for containment and cleaning up

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local /

national regulations (see section 13).

#### **SECTION 7. HANDLING AND STORAGE**

Advice on protection against

fire and explosion

Keep away from heat and sources of ignition.

Advice on safe handling : Do not get in eyes.

Do not taste or swallow.

Avoid prolonged or repeated contact with skin.

Use only with adequate ventilation. Wash thoroughly after handling.

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice.

Conditions for safe storage : Keep container tightly closed and in a well-ventilated place.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
methyl acetate	79-20-9	TWA	200 ppm 606 mg/m3	AU OEL
		STEL	250 ppm 757 mg/m3	AU OEL

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**TWA** 200 ppm **ACGIH STEL** 250 ppm **ACGIH** 67-56-1 methanol TWA 200 ppm **AU OEL** 262 mg/m3 Further information: Skin absorption **AU OEL** STEL 250 ppm 328 mg/m3 Further information: Skin absorption TWA 200 ppm **ACGIH** STEL **ACGIH** 250 ppm

### Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentra-tion	Basis
methanol	67-56-1	Methanol	Urine	End of shift (As soon as possible after exposure ceases)	15 mg/l	ACGIH BEI

**Engineering measures** 

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

### Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust

ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Eye protection : Wear safety glasses with side shields (or goggles).

Protective measures : Ensure that eye flushing systems and safety showers are

located close to the working place.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : colourless

Odour : pleasant

Odour Threshold : 4.6 ppm

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pH : not determined

Melting point/freezing point : -99 °C

Boiling point/boiling range : 55.8 - 58.2 °C

Flash point : -13 °C

Method: Tag closed cup

Evaporation rate : 5.3

Self-ignition : 502 °C

Method: method unspecified

Vapour pressure : 228.3 mbar (20 °C)

Relative vapour density : 2.6

Relative density : 0.934 (20 °C)

Solubility(ies)

Water solubility : partly soluble

Partition coefficient: n-

octanol/water

Pow: 1.51

log Pow: 0.18

Auto-ignition temperature : not determined

Decomposition temperature : Method: DTA

No exotherm

Viscosity

Viscosity, dynamic : 0.38 mPa.s ( 20 °C)

Viscosity, kinematic : 0.406 mm2/s (20 °C)

Explosive properties : No data available

Oxidizing properties : No data available

## **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : None reasonably foreseeable.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reac-

tions

Stable

Conditions to avoid : Heat, flames and sparks.

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Incompatible materials : Strong oxidizing agents

Hazardous decomposition

products

: Carbon dioxide (CO2) Carbon monoxide

### **SECTION 11. TOXICOLOGICAL INFORMATION**

### Acute toxicity

Not classified based on available information.

**Product:** 

Acute oral toxicity : Remarks: No data available

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

**Components:** 

methyl acetate:

Acute oral toxicity : LD50 Oral (Rat): 6,482 mg/kg

Remarks: (highest dose tested)

Acute inhalation toxicity : LC50 (Rat): > 49 mg/l

Exposure time: 4 h

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2,000 mg/kg

Remarks: (highest dose tested)

methanol:

Acute oral toxicity : LD50 Oral (Rat): 5,600 mg/kg

Acute inhalation toxicity : LC50 (Rat): 64000 ppm

Exposure time: 4 h

Acute dermal toxicity : LD50 Dermal (Rabbit): 17,100 mg/kg

Skin corrosion/irritation

Not classified based on available information.

**Product:** 

Remarks : No data available

**Components:** 

methyl acetate:

Species : Rabbit Exposure time : 24 h Result : slight

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methanol:

Species : Rabbit Exposure time : 72 h Result : none

Serious eye damage/eye irritation

Causes serious eye irritation.

**Product:** 

Remarks : No data available

**Components:** 

methyl acetate:

Species : Rabbit Result : slight

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

**Product:** 

Remarks : No data available

**Components:** 

methyl acetate:

Test Type : Skin Sensitization
Species : Guinea pig
Result : non-sensitizing

methanol:

Test Type : Skin Sensitization
Species : Guinea pig
Result : non-sensitizing

**Chronic toxicity** 

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

**Product:** 

Remarks : This information is not available.

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Reproductive toxicity

Not classified based on available information.

**Product:** 

Effects on fertility : Remarks: No data available

STOT - single exposure

May cause respiratory irritation.

May cause drowsiness or dizziness.

Causes damage to organs (Eyes, Central nervous system).

**Product:** 

Exposure routes : Inhalation

Target Organs : Respiratory system, Central nervous system

Assessment : May cause respiratory irritation.

May cause drowsiness or dizziness.

**Components:** 

methanol:

Target Organs : optic nerve, Central nervous system

Assessment : Causes damage to organs.

STOT - repeated exposure

Not classified based on available information.

**Product:** 

Remarks : No data available

**Aspiration toxicity** 

Not classified based on available information.

**Product:** 

No data available

Experience with human exposure

**Product:** 

Inhalation : Remarks: May cause respiratory irritation.

May cause drowsiness or dizziness.

Skin contact : Remarks: None known.

Eye contact : Remarks: Causes serious eye damage.

Ingestion : Remarks: Causes damage to organs.

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**Further information** 

**Product:** 

Remarks : None known.

**SECTION 12. ECOLOGICAL INFORMATION** 

**Ecotoxicity** 

**Components:** 

methyl acetate:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 320 - 399

mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (daphnid): 1,027 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

EC50 (Scenedesmus capricornutum (fresh water algae)): >

120 mg/l

Exposure time: 72 h

methanol:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 15,400 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 10,000 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (algae)): 22,000 mg/l

Exposure time: 96 h

Persistence and degradability

**Components:** 

methyl acetate:

Biodegradability : Concentration: 3.6 mg/l

Result: Readily biodegradable.

Biodegradation: 70 % Exposure time: 28 d

methanol:

Biodegradability : Concentration: 10 mg/l

Biodegradation: 95 % Exposure time: 20 d

Biochemical Oxygen De-

mand (BOD)

BOD-5:

770 mg/g

Incubation time: 5 d

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BOD-20: 1,260 mg/g

Incubation time: 20 d

Chemical Oxygen Demand

(COD)

1,410 mg/g

BOD/COD BOD/COD: 54.6 %

**ThOD** 1,500 mg/g

BOD/ThOD 51.3 %

**Bioaccumulative potential** 

**Components:** 

methanol:

Partition coefficient: n-Pow: 0.17 log Pow: -0.77 octanol/water

Mobility in soil No data available

Other adverse effects

No data available

**SECTION 13. DISPOSAL CONSIDERATIONS** 

Disposal methods

Waste from residues Dispose of in accordance with local regulations.

**SECTION 14. TRANSPORT INFORMATION** 

**International Regulations** 

**IATA-DGR** 

UN/ID No. UN 1231 Proper shipping name Methyl acetate

Class 3 Packing group Ш

Flammable Liquids Labels

364 Packing instruction (cargo

aircraft)

Packing instruction (passen: :

353

ger aircraft)

**IMDG-Code** 

**UN** number UN 1231

Proper shipping name METHYL ACETATE

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Class : 3
Packing group : II
Labels : 3

EmS Code : F-E, S-D Marine pollutant : no

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### **National Regulations**

**ADG** 

UN number : UN 1231

Proper shipping name : METHYL ACETATE

Class : 3
Packing group : II
Labels : 3
Hazchem Code : •2YE

#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

#### **SECTION 15. REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture

Standard for the Uniform

Scheduling of Medicines and

Poisons

No poison schedule number allocated

Prohibition/Licensing Requirements : methanol

Refer to model WHS Act and Regulations for prohibition, authorisation

and restricted use.

The components of this product are reported in the following inventories:

TCSI : On the inventory, or in compliance with the inventory

TSCA : All substances listed as active on the TSCA inventory

AIIC : 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

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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

TECI: On the inventory, or in compliance with the inventory

#### **SECTION 16. OTHER INFORMATION**

Revision Date : 21.12.2022

Date format : dd.mm.yyyy

#### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)

AU OEL : Australia. Workplace Exposure Standards for Airborne Con-

taminants.

ACGIH / TWA : 8-hour, time-weighted average ACGIH / STEL : Short-term exposure limit

AU OEL / TWA : Exposure standard - time weighted average AU OEL / STEL : Exposure standard - short term exposure limit

AllC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Trans-

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portation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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