SECTION 1. IDENTIFICATION

Product name : Eastman(TM) Methyl Acetate
Product code : 09051-00, P0905105, E0905101, P0905106, P0905107, P0905108, P0905100

Manufacturer or supplier's details
Company name of supplier : Eastman Chemical Company
Address : 200 South Wilcox Drive
          Kingsport TN 37660-5280
Telephone : (423) 229-2000
Emergency telephone : CHEMTREC: +1-800-424-9300, +1-703-527-3887 CCN7321

Recommended use of the chemical and restrictions on use
Recommended use : Solvent
Restrictions on use : None known.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200
Flammable liquids : Category 2
Eye irritation : Category 2A
Specific target organ systemic toxicity - single exposure : Category 1 (Eyes, Central nervous system)
Specific target organ systemic toxicity - single exposure : Category 3 (Respiratory system, Central nervous system)

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 (Eyes, Central 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.
P307 + P311 IF exposed: Call a POISON CENTER or doctor/physician.
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:
None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>
### 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.
- Causes serious eye irritation.
- May cause respiratory irritation.
- May cause drowsiness or dizziness.
- Causes damage to organs.

**Notes to physician:**
- Treat symptomatically.

### SECTION 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media:**
- Use water spray to extinguish.
- Dry chemical
- Carbon dioxide (CO2)
- Foam

**Unsuitable extinguishing media:**
- None known.

**Specific hazards during firefighting:**
- Prevent buildup of vapors or gases to explosive concentrations.

**Hazardous combustion products:**
- No hazardous combustion products are known.

**Further information:**
- Highly flammable liquid and vapor.
- Prevent buildup of vapors or gases to explosive concentrations.
- Material will float and may ignite on surface of water.
Special protective equipment for fire-fighters: Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency 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.

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

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>methyl acetate</td>
<td>79-20-9</td>
<td>TWA</td>
<td>200 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>250 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>200 ppm 610 mg/m³</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ST</td>
<td>250 ppm 760 mg/m³</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>200 ppm 610 mg/m³</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>200 ppm 610 mg/m³</td>
<td>OSHA P0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>250 ppm 760 mg/m³</td>
<td>OSHA P0</td>
</tr>
</tbody>
</table>

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.

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

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance**: liquid
- **Color**: colorless
- **Odor**: pleasant
- **Odor Threshold**: 4.6 ppm
- **pH**: not determined
- **Melting point/freezing point**: -146 °F / -99 °C
- **Boiling point/boiling range**: 132.4 - 136.8 °F / 55.8 - 58.2 °C
- **Flash point**: 9 °F / -13 °C  
  *Method*: Tag closed cup
- **Evaporation rate**: 5.3
- **Self-ignition**: 936 °F / 502 °C  
  *Method*: method unspecified
- **Vapor pressure**: 228.3 mbar (68 °F / 20 °C)
- **Relative vapor density**: 2.6
- **Relative density**: 0.934 (68 °F / 20 °C)
- **Solubility(ies)**
Water solubility: partly soluble

Partition coefficient: n-octanol/water
- Pow: 1.51
- log Pow: 0.18

Autoignition temperature: not determined

Decomposition temperature: Method: DTA
- No exotherm

Viscosity
- Viscosity, dynamic: 0.38 mPa.s (68 °F / 20 °C)
- Viscosity, kinematic: 0.406 mm²/s (68 °F / 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 reactions: Stable

Conditions to avoid: Heat, flames and sparks.

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
SAFETY DATA SHEET

Eastman(TM) Methyl Acetate

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)

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

Serious eye damage/eye irritation
Causes serious eye irritation.

Product:
Remarks : No data available

Components:
methyl acetate:
Species : Rabbit
Result : slight

Respiratory or skin sensitization

Skin sensitization
Not classified based on available information.

Respiratory sensitization
Not classified based on available information.

Product:
Remarks : No data available

Components:
methyl acetate:
Test Type : Skin Sensitization
Species : Guinea pig
Result : non-sensitizing
Germ cell mutagenicity
Not classified based on available information.

Carcinogenicity
Not classified based on available information.

**Product:**
Remarks: This information is not available.

**IARC**
No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA**
No component of this product present at levels greater than or equal to 0.1% is on OSHA’s list of regulated carcinogens.

**NTP**
No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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:**
Routes of exposure: Inhalation
Target Organs: Respiratory system, Central nervous system
Assessment: May cause respiratory irritation., May cause drowsiness or dizziness.

**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

Information on likely routes of 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.

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

Persistence and degradability

Components:
methyl acetate:
Biodegradability: Concentration: 3.6 mg/l
Result: Readily biodegradable.
Biodegradation: 70 %
Exposure time: 28 d

Bioaccumulative potential
No data available

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: II
Labels: Flammable Liquids
Packing instruction (cargo aircraft): 364
Packing instruction (passenger aircraft): 353

IMDG-Code
UN number: UN 1231
Proper shipping name: METHYL ACETATE

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.

Domestic regulation

49 CFR
UN/ID/NA number: UN 1231
Proper shipping name: Methyl acetate

Class: 3
Packing group: II
Labels: Class 3 - Flammable Liquid
ERG Code: 129
Marine pollutant: no

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

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity
This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.
SARA 302 Extremely Hazardous Substances Threshold Planning Quantity
This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards
- Flammable (gases, aerosols, liquids, or solids)
- Serious eye damage or eye irritation
- Specific target organ toxicity (single or repeated exposure)

SARA 313
- The following components are subject to reporting levels established by SARA Title III, Section 313:
  - Methanol 67-56-1

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop. 65
WARNING: This product can expose you to chemicals including methanol, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

The ingredients of this product are reported in the following inventories:
- TSCA: On TSCA Inventory
- DSL: All components of this product are on the Canadian DSL
- AICS: On the inventory, or in compliance with the inventory
- ENCS: On the inventory, or in compliance with the inventory
- ISHL: On the inventory, or in compliance with the inventory
- KECl: 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

TSCA list
No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.
SECTION 16. OTHER INFORMATION

Further information

NFPA 704:  
<table>
<thead>
<tr>
<th>Flammability</th>
<th>Health</th>
<th>Instability</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>2</td>
<td>0</td>
</tr>
</tbody>
</table>

HMIS® IV:  

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>PHYSICAL HAZARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>3</td>
<td>0</td>
</tr>
</tbody>
</table>

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The *** represents a chronic hazard, while the /// represents the absence of a chronic hazard.

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL: USA. NIOSH Recommended Exposure Limits
OSHA P0 : USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / TWA : 8-hour, time-weighted average
ACGIH / STEL : Short-term exposure limit
NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA P0 / TWA : 8-hour time weighted average
OSHA P0 / STEL : Short-term exposure limit
OSHA Z-1 / TWA : 8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; KECl - Korea Existing Chemi-
The information provided in this Material 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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