SAFETY DATA SHEET

Eastman(TM) PM Solvent

SECTION 1. IDENTIFICATION

Product name : Eastman(TM) PM Solvent

Product code : 05371-00, P0537102, P05371A0, E0537101, P053710R, P053710T

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 3

Specific target organ toxicity - single exposure : Category 3 (Central nervous system)

GHS label elements

Hazard pictograms : ![Flammable](image1) ![Warning](image2)

Signal Word : Warning

Hazard Statements : H226 Flammable liquid and vapor.
                      H336 May cause drowsiness or dizziness.

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.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
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.
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
Forms peroxides of unknown stability.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-methoxy-2-propanol</td>
<td>107-98-2</td>
<td>97 - 100</td>
</tr>
<tr>
<td>2-methoxypropanol</td>
<td>1589-47-5</td>
<td>&lt;= 0.5</td>
</tr>
</tbody>
</table>

SECTION 4. FIRST AID MEASURES

If inhaled: Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.

In case of skin contact: In case of contact, immediately flush skin with soap and plenty of water. Get medical advice/ attention. Wash contaminated clothing before reuse. Destroy contaminated shoes.

In case of eye contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician or poison control center immediately. Remove person to fresh air. If signs/symptoms continue,
If swallowed : Seek medical advice.

Most important symptoms and effects, both acute and delayed : May cause drowsiness or dizziness.

Notes to physician : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Use water spray to extinguish.  
Dry chemical  
Carbon dioxide (CO2)  
Alcohol-resistant foam

Unsuitable extinguishing media : None known.

Specific hazards during firefighting : Vapors may form explosive mixtures with air.  
Prevent buildup of vapors or gases to explosive concentrations.  
Forms peroxides of unknown stability.

Hazardous combustion products : No hazardous combustion products are known

Further information : Flammable liquid and vapor.

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Wear appropriate personal protective equipment.

Environmental precautions : Avoid release to the environment.

Methods and materials for containment and cleaning up : Eliminate all ignition sources.  
Prevent runoff from entering drains, sewers, or streams.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Keep away from heat and sources of ignition.

Advice on safe handling : Avoid inhalation of vapor or mist.
Do not get on skin or clothing.
Do not taste or swallow.
Use only with adequate ventilation.
Wash thoroughly after handling.
Minimize exposure to air.
After opening, purge container with nitrogen before reclosing.
Periodically test for peroxide formation on long-term storage.

Conditions for safe storage:
Keep container tightly closed in a dry and well-ventilated place.
Store in a cool and shaded area.
Keep away from food, drink and animal feedingstuffs.

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>1-methoxy-2-propanol</td>
<td>107-98-2</td>
<td>TWA</td>
<td>50 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>100 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ST</td>
<td>150 ppm / 540 mg/m3</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>100 ppm / 360 mg/m3</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>100 ppm / 360 mg/m3</td>
<td>OSHA P0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>150 ppm / 540 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:
If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Eye protection:
Safety glasses with side-shields

Hygiene measures:
Handle in accordance with good industrial hygiene and safety practice for diagnostics.
## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance
- **Appearance**: liquid

### Color
- **Color**: colorless

### Odor
- **Odor**: ether-like

### Odor Threshold
- **Odor Threshold**: 10 ppm

### pH
- **pH**: not determined

### Melting point/range
- **Melting point/range**: -143 °F / -97 °C

### Boiling point/boiling range
- **Boiling point/boiling range**: 248 °F / 120 °C

### Flash point
- **Flash point**: 88 °F / 31 °C
  - Method: Seta closed cup

### Evaporation rate
- **Evaporation rate**: not determined

### Upper explosion limit / Upper flammability limit
- **Upper explosion limit / Upper flammability limit**: not determined

### Lower explosion limit / Lower flammability limit
- **Lower explosion limit / Lower flammability limit**: not determined

### Vapor pressure
- **Vapor pressure**: 14.7 mbar (77 °F / 25 °C)

### Relative vapor density
- **Relative vapor density**: 3.1

### Relative density
- **Relative density**: 0.915 (73 °F / 23 °C)

### Solubility(ies)
- **Water solubility**: completely soluble

### Partition coefficient: n-octanol/water
- **Pow**: 0.66
- **log Pow**: -0.18

### Autoignition temperature
- **Autoignition temperature**: 531 °F / 277 °C
  - Method: ASTM E659

### Decomposition temperature
- **Decomposition temperature**: 419 °F / 215 °C
  - Method: HPDTA

### Viscosity
- **Viscosity**: dynamic
Viscosity, kinematic : 2.07 mm²/s (68 °F / 20 °C)
Explosive properties : No data available
Oxidizing properties : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Forms peroxides of unknown stability.
Chemical stability : Stable under normal conditions.
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:
1-methoxy-2-propanol:
Acute oral toxicity
LD50 Oral (Rat): 6,040 mg/kg
Acute inhalation toxicity
LC50 (Rat): 7000 ppm
Exposure time: 7 h
Acute dermal toxicity
LD50 Dermal (Rat): 12,900 mg/kg

2-methoxypropanol:
Acute oral toxicity : LD50 Oral (Rat): 5,710 mg/kg
Acute dermal toxicity: LD50 Dermal (Rabbit): 5,660 mg/kg

Skin corrosion/irritation
Not classified based on available information.

Product:
Remarks: No data available

Components:
1-methoxy-2-propanol:
Species: Rabbit
Exposure time: 24 h
Result: slight

2-methoxypropanol:
Species: Rabbit
Result: slight

Serious eye damage/eye irritation
Not classified based on available information.

Product:
Remarks: No data available

Components:
1-methoxy-2-propanol:
Species: Rabbit
Result: slight
Exposure time: 24 h

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:
1-methoxy-2-propanol:
Test Type: Skin Sensitization
Species: Guinea pig
Result: Not a skin sensitizer.

Germ cell mutagenicity
Not classified based on available information.

Carcinogenicity
Not classified based on available information.
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Version 2.2
Revision Date: 03/16/2020
SDS Number: 150000000239
PRD SDSUS / Z8 / 0001
Date of last issue: 04/10/2017
Date of first issue: 09/06/2016

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

Reproductive toxicity - Assessment
No toxicity to reproduction

STOT-single exposure
May cause drowsiness or dizziness.

Product:
Assessment
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 drowsiness or dizziness.

Skin contact
Remarks: None known.

Eye contact
Remarks: None known.

Ingestion
Remarks: None known.
SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:
1-methoxy-2-propanol:
Toxicity to fish

: LC50 (Salmo salar (Atlantic salmon)): >= 1,000 mg/l
  Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates

: LC50 (Daphnia magna (Water flea)): 25,900 mg/l
  Exposure time: 48 h

Toxicity to algae/aquatic plants

: (Chlorella pyrenoidosa): > 1,000 mg/l
  Exposure time: 7 d
  Test Type: Growth inhibition

Persistence and degradability

Components:
1-methoxy-2-propanol:

Biochemical Oxygen Demand (BOD)

: BOD-20: 1,140 mg/g

Chemical Oxygen Demand (COD)

: 1,840 mg/g

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 3092
Proper shipping name : 1-Methoxy-2-propanol
Class : 3
Packing group : III
SAFETY DATA SHEET

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Labels: Class 3 - Flammable liquids
Packing instruction (cargo aircraft): 366
Packing instruction (passenger aircraft): 355

IMDG-Code
UN number: UN 3092
Proper shipping name: 1-METHOXY-2-PROPANOL

Class: 3
Packing group: III
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 3092
Proper shipping name: 1-Methoxy-2-propanol

Class: 3
Packing group: III
Labels: Class 3 - Flammable liquids
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
  - Fire Hazard
  - Acute Health Hazard
SARA 313: 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: This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

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

TSCA: All substances listed as active on the TSCA inventory
AICS: On the inventory, or in compliance with the inventory
CH INV: 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
TCSI: 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
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Revision Date: 03/16/2020
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NFPA 704:

Health 1 3 0
Flammability
Physical Hazards 1 3 0

HMIS® IV:

Health 2
Flammability 3
Physical Hazard 0

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
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

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; IECSR - 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office
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.