SAFETY DATA SHEET

Eastman Texanol(TM) Ester Alcohol

SECTION 1. IDENTIFICATION

Product name : Eastman Texanol(TM) Ester Alcohol

Product code : 02104-00, P0210404, P0210406, P021040A, P0210410, P0210415, P0210416, P02104E1, P02104E2, P0210402, P0210413, E02104D1, P0210417, P0210418, P0210419, P0210420, P0210421

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 : Coalescing agent for emulsions

Restrictions on use : None known.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Reproductive toxicity : Category 2

GHS label elements

Hazard pictograms : ![](image)

Signal Word : Warning

Hazard Statements : H361d Suspected of damaging the unborn child.

Precautionary Statements : Prevention:
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
P308 + P313 IF exposed or concerned: Get medical advice/
SAFETY DATA SHEET

Eastman Texanol(TM) Ester Alcohol

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Substance / Mixture</th>
<th>Substance</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS-No.</td>
<td>Not Assigned</td>
</tr>
</tbody>
</table>

**Ingredients**

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,2,4-trimethyl-1,3-pentanediol monoisobutyrate</td>
<td>25265-77-4</td>
<td>&gt; 99</td>
</tr>
<tr>
<td>2,2,4-trimethyl-1,3-pentanediol diisobutyrate</td>
<td>6846-50-0</td>
<td>&lt;= 0.8</td>
</tr>
</tbody>
</table>

SECTION 4. FIRST AID MEASURES

**If inhaled**

- Move to fresh air.
- Call a physician or poison control center immediately.

**In case of skin contact**

- Wash off immediately with plenty of water for at least 15 minutes.
- Take off all contaminated clothing immediately.
- Call a physician or poison control center immediately.

**In case of eye contact**

- Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

- If accidentally swallowed obtain immediate medical attention.

**Most important symptoms and effects, both acute and delayed**

- Suspected of damaging the unborn child.

**Notes to physician**

- Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**

- Carbon dioxide (CO2)
- Dry chemical
- Water spray
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Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire. Do NOT use water jet.

Specific hazards during fire fighting: None known.

Hazardous combustion products: No hazardous combustion products are known.

Further information: None known.

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: Use 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: None known.

Advice on safe handling: Do not breathe vapors or spray mist. Do not get on skin or clothing. Do not swallow. Use only with adequate ventilation. Wash thoroughly after handling.

Conditions for safe storage: Keep tightly closed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters
Contains no substances with occupational exposure limit values.

Engineering measures: Good general ventilation (typically 10 air changes per hour) should be sufficient to control airborne levels. Ensure adequate ventilation.
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.

Hand protection

Remarks: Wear suitable gloves.

Eye protection: Safety glasses

Protective measures: Remove respiratory and skin/eye protection only after vapors have been cleared from the area. Ensure that eye flushing systems and safety showers are located close to the working place. Use personal protective equipment as required.

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: liquid

Color: colorless

Odor: slight

Odor Threshold: not determined

pH: not determined

Melting point/freezing point: < -94.45 °F / -70.25 °C

Boiling point/boiling range: 491 - 502.7 °F / 255 - 261.5 °C (102.4 kPa)

Flash point: 252 °F / 122 °C

Method: Seta closed cup

Evaporation rate: not determined

Flammability (solid, gas): Not applicable

Self-ignition: 730 °F / 388 °C

Method: ASTM E659

Vapor pressure: 1.3 Pa (68 °F / 20 °C)

Relative vapor density: 7.5
### SECTION 10. STABILITY AND REACTIVITY

- **Reactivity**: None reasonably foreseeable.
- **Chemical stability**: Stable under normal conditions.
- **Possibility of hazardous reactions**: Stable None known.
- **Conditions to avoid**: None known.
- **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
Ingredients:

2,2,4-trimethyl-1,3-pentanediol diisobutyrate:
Acute oral toxicity: LD50 Oral (Rat): > 2,000 mg/kg
Acute inhalation toxicity: LC50 (Rat): > 0.12 mg/l
  Exposure time: 6 h
Acute dermal toxicity: LD50 Dermal (Rabbit): > 2,000 mg/kg

Skin corrosion/irritation
Not classified based on available information.

Product:
Remarks: No data available

Ingredients:

2,2,4-trimethyl-1,3-pentanediol diisobutyrate:
Species: Guinea pig
Exposure time: 24 h
Result: slight

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

Product:
Remarks: No data available

Ingredients:

2,2,4-trimethyl-1,3-pentanediol diisobutyrate:
Species: Rabbit
Result: none
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

Ingredients:

2,2,4-trimethyl-1,3-pentanediol diisobutyrate:
Test Type: Skin Sensitization
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Species: Guinea pig
Result: non-sensitizing

Germ cell mutagenicity
Not classified based on available information.

Ingredients:

2,2,4-trimethyl-1,3-pentanediol diisobutyrate:
Genotoxicity in vitro:
Test Type: In vitro mammalian cell gene mutation test
   Metabolic activation: with and without metabolic activation
   Result: negative

   Test Type: reverse mutation assay
   Metabolic activation: with and without metabolic activation
   Result: negative

   Test Type: Chromosome aberration test in vitro
   Metabolic activation: with and without metabolic activation
   Result: negative

Carcinogenicity
Not classified based on available information.

Product:
Remarks: This information is not available.

Ingredients:

2,2,4-trimethyl-1,3-pentanediol diisobutyrate:
Remarks: OSHA Not Listed.

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
Suspected of damaging the unborn child.

Product:
Effects on fertility: Remarks: No data available

Ingredients:

2,2,4-trimethyl-1,3-pentanediol diisobutyrate:
Effects on fetal development:
   Species: Rabbit
   Application Route: Oral
Developmental  Toxicity: NOAEL: 300 mg/kg body weight

Reproductive toxicity - Assessment : Some evidence of adverse effects on development, based on animal experiments.

STOT-single exposure
Not classified based on available information.

Product:
Remarks : No data available

STOT-repeated exposure
Not classified based on available information.

Product:
Remarks : No data available

Aspiration toxicity
Not classified based on available information.

Product:  No aspiration toxicity classification

Further information

Product:
Remarks : None known.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Ingredients:

2,2,4-trimethyl-1,3-pentanediol diisobutyrate:
Toxicity to fish : NOEC (Fish): >= 6 mg/l
Exposure time: 96 h
Remarks: (limit of solubility in fresh water)

Toxicity to daphnia and other aquatic invertebrates : NOEC: (Daphnia): >= 1.46 mg/l
Exposure time: 48 h
Remarks: (limit of solubility in fresh water)

Toxicity to algae : EC50 (Chlorella pyrenoidosa): > 7.49 mg/l
Exposure time: 72 h
Remarks: (limit of solubility in fresh water)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC50 (Daphnia): > 1.3 mg/l
Exposure time: 21 d
Remarks: (limit of solubility in fresh water)
NOEC (Daphnia): 0.7 mg/l  
Exposure time: 21 d

Persistence and degradability

**Ingredients:**

2,2,4-trimethyl-1,3-pentanediol diisobutyrate:

Biodegradability: Biodegradation: 70.73 % 
Exposure time: 28 d
Method: Ready Biodegradability: CO2 Evolution Test

ThOD: 2.40 g/g

Bioaccumulative potential

**Ingredients:**

2,2,4-trimethyl-1,3-pentanediol diisobutyrate:

Bioaccumulation: Species: Fish 
Bioconcentration factor (BCF): 1.95

Species: Fish 
Bioconcentration factor (BCF): 183 - 194

Mobility in soil

**Product:**

Distribution among environmental compartments: Medium: Soil 
log Koc: 1.5 - 2.8

**Ingredients:**

2,2,4-trimethyl-1,3-pentanediol diisobutyrate:

Distribution among environmental compartments: log Koc: 2.69 - 3.6
Method: QSAR model

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
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** : Reproductive toxicity

**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:

- **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
- **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
- **TCSI** : On the inventory, or in compliance with the inventory
TSCA: 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:

Flammability

PHYSICAL HAZARD

11

0

1

0

Special hazard.

HMIS® IV:

HEALTH

/ 2

FLAMMABILITY

1

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

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; 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 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance 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

Revision Date : 10/03/2018

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.