

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: Eastman Texanol(TM) Ester Alcohol

Product No.: EAN 000701. 02104-00, P0210401, P0210404, P0210406, P021040A, P0210410, P0210412, P0210415, P0210416, P02104E1, P02104E2, P0210402, P0210413, E02104D1, P0210417, P0210418, P0210414, P0210419, P0210420, P0210421

Additional identification

Chemical name: 2,2,4-trimethyl-1,3-pentanediol mono(2-methylpropanoate)
CAS-No.: 25265-77-4

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Coalescing agent for emulsions

Uses advised against: None known.

1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier

Eastman Chemical Company
200 South Wilcox Drive
Kingsport, TN 37660-5280 US
+14232292000

Visit our website at www.EASTMAN.com or email emnsds@eastman.com

1.4 Emergency telephone number:

For emergency health, safety, and environmental information, call 1-423-229-4511 or 1-423-229-2000.

For emergency transportation information, in the United States: call CHEMTREC at 800-424-9300 or call 423-229-2000.

SECTION 2: Hazards identification

LOW HAZARD FOR USUAL INDUSTRIAL OR COMMERCIAL HANDLING BY TRAINED PERSONNEL

SECTION 3: Composition/information on ingredients

3.1 / 3.2 Substances / Mixtures

General information:

| Chemical name | Concentration | Additional identification | Notes |
|---|---------------|---|-------|
| 2,2,4-trimethyl-1,3-pentanediol monoisobutyrate | 100% | CAS-No.: 25265-77-4 EC No.: 246-771-9 REACH Registration No.: 01-2119441305-48-0001 | |

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.
This substance has workplace exposure limit(s).
PBT: persistent, bioaccumulative and toxic substance.
vPvB: very persistent and very bioaccumulative substance.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation: Move to fresh air. Treat symptomatically. Get medical attention if symptoms persist.

Eye contact: Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. Get medical attention if symptoms persist.

Skin contact: Wash with soap and water. Get medical attention if symptoms occur.

Ingestion: Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed: None known.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards: None known.

Treatment: Treat symptomatically.

SECTION 5: Firefighting measures

General fire hazards: None known.

5.1 Extinguishing media

Suitable extinguishing media: Water spray. Dry chemical. Carbon Dioxide. Foam.

Unsuitable extinguishing media: None known.

5.2 Special hazards arising from the substance or mixture: None known.

5.3 Advice for firefighters

Special Fire Fighting Procedures: None known.

Special protective equipment for fire-fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures:** Wear appropriate personal protective equipment.
- 6.2 Environmental precautions:** Avoid release to the environment.
- 6.3 Methods and material for containment and cleaning up:** Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.
- Notification Procedures:** In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

SECTION 7: Handling and storage:

- 7.1 Precautions for safe handling:** No special precautions are necessary beyond normal good hygiene practices. See Section 8 of the MSDS for additional personal protection advice when handling this product.
- 7.2 Conditions for safe storage, including any incompatibilities:** Keep container closed.
- 7.3 Specific end use(s):** Coalescing agent for emulsions Coatings Chemical Intermediate Plasticizer

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Occupational exposure limits**

If exposure limits have not been established, maintain airborne levels to an acceptable level.

8.2 Exposure controls**Appropriate engineering controls:**

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.

Individual protection measures, such as personal protective equipment

General information: Eye bath. Washing facilities.

Eye/face protection: It is a good industrial hygiene practice to minimize eye contact.

Skin protection**Hand protection:** It is a good industrial hygiene practice to minimize skin contact.**Other:** No data available.**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. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information.

Hygiene measures: Observe good industrial hygiene practices.**Environmental Controls:** No data available.**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****Appearance**

| | |
|---|---------------------------------|
| Physical State: | Liquid |
| Form: | Liquid |
| Color: | Colorless |
| Odor: | Slight |
| Odor Threshold: | No data available. |
| pH: | No data available. |
| Freezing Point: | < -70.25 °C |
| Boiling Point: | 255 - 261.5 °C (102.4 kPa) |
| Flash Point: | 122 °C (Setaflash Closed Cup) |
| Evaporation Rate: | No data available. |
| Flammability (solid, gas): | Not applicable |
| Flammability Limit - Upper (%)-: | No data available. |
| Flammability Limit - Lower (%)-: | No data available. |
| Vapor pressure: | 1.3 Pa (20 °C) |
| Vapor density (air=1): | 7.5 |
| Specific Gravity: | 0.9464 (20 °C) |
| Solubility(ies) | |
| Solubility in Water: | 0.5 - 3.79 g/l (25 °C) |
| Solubility (other): | No data available. |
| Partition coefficient (n-octanol/water): | log Pow: 2.34 - 3.2 |
| Autoignition Temperature: | 388 °C (ASTM E659) |
| Decomposition Temperature: | No data available. |
| Dynamic Viscosity: | 12.9 mPa.s (25 °C) |
| Kinematic viscosity: | 13.6 mm ² /s (25 °C) |

Explosive properties: Not classified
Oxidizing properties: Not classified

SECTION 10: Stability and reactivity

10.1 Reactivity: None known.
10.2 Chemical stability: Stable
10.3 Possibility of hazardous reactions: None known.
10.4 Conditions to avoid: None at ambient temperatures.
10.5 Incompatible materials: Strong oxidizing agents.
10.6 Hazardous decomposition products: Carbon Dioxide. Carbon Monoxide.

SECTION 11: Toxicological information

Information on likely routes of exposure

Inhalation: None known.
Ingestion: None known.
Skin contact: None known.
Eye contact: None known.

11.1 Information on toxicological effects

Acute Toxicity

Oral

Product: No data available.

Specified substance(s)

2,2,4-trimethyl-1,3-pentanediol monoisobutyrate
 Oral LD-50: (Rat): > 3,200 mg/kg

Dermal

Product: No data available.

Specified substance(s)

2,2,4-trimethyl-1,3-pentanediol monoisobutyrate
 Dermal LD-50: (Rabbit): > 15,200 mg/kg
 Dermal LD-50: (Guinea Pig): > 19,000 mg/kg

Inhalation

Product: No data available.

Specified substance(s)

2,2,4-trimethyl-1,3-pentenediol monoisobutyrate

LCLo (Rat, 6 h): > 2.73 mg/l (highest concentration tested)
LCLo (Rat, 6 h): > 3.55 mg/l

Repeated dose toxicity

Product:

No data available.

Specified substance(s)

2,2,4-trimethyl-1,3-pentenediol monoisobutyrate

NOAEL (Rat, by gavage, 15 d): 1,000 mg/kg

Skin corrosion/irritation:

Product:

No data available.

Specified substance(s)

2,2,4-trimethyl-1,3-pentenediol monoisobutyrate

(Rabbit, 24 h): Slight

Serious eye damage/eye irritation:

Product:

No data available.

Specified substance(s)

2,2,4-trimethyl-1,3-pentenediol monoisobutyrate

No data available.

Respiratory or skin sensitization:

Product:

No data available.

Specified substance(s)

2,2,4-trimethyl-1,3-pentenediol monoisobutyrate

Skin Sensitization:, (Guinea Pig) - non-sensitizing

Germ cell mutagenicity

In vitro

Product:

No data available.

Specified substance(s)

2,2,4-trimethyl-1,3-pentenediol monoisobutyrate

Mutagenicity - Bacterial, : negative +/- activation
Chromosomal aberration, : negative +/- activation
Mutagenicity - Mammalian, : negative +/- activation

In vivo

Product:

No data available.

Specified substance(s)

2,2,4-trimethyl-1,3-pentenediol monoisobutyrate

No data available.

Carcinogenicity**Product:** No data available.**Specified substance(s)**2,2,4-trimethyl-1,3-pentanediol
monoisobutyrate No data available.**Reproductive toxicity****Product:** No data available.**Specified substance(s)**2,2,4-trimethyl-1,3-pentanediol
monoisobutyrate No data available.**Specific target organ toxicity - single exposure****Product:** No data available.**Specified substance(s)**2,2,4-trimethyl-1,3-pentanediol
monoisobutyrate No data available.**Specific target organ toxicity - repeated exposure****Product:** No data available.**Specified substance(s)**2,2,4-trimethyl-1,3-pentanediol
monoisobutyrate No data available.**Aspiration hazard****Product:** No data available.**Specified substance(s)**2,2,4-trimethyl-1,3-pentanediol
monoisobutyrate No data available.**Other adverse effects:** No data available.**SECTION 12: Ecological information****12.1 Toxicity****Acute toxicity****Fish****Product:** No data available.**Specified substance(s)**2,2,4-trimethyl-1,3-pentanediol
monoisobutyrate LC-50 (Fathead Minnow, 96 h): 33 mg/l**Aquatic invertebrates**

Product: No data available.

Specified substance(s)
 2,2,4-trimethyl-1,3-pentenediol monoisobutyrate EC-50 (Water Flea, 48 h): 147.8 mg/l

Chronic Toxicity

Fish

Product: No data available.

Specified substance(s)
 2,2,4-trimethyl-1,3-pentenediol monoisobutyrate No data available.

Aquatic invertebrates

Product: No data available.

Specified substance(s)
 2,2,4-trimethyl-1,3-pentenediol monoisobutyrate No data available.

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s)
 2,2,4-trimethyl-1,3-pentenediol monoisobutyrate ErC50 (Pseudokirchneriella subcapitata, 72 h): > 57 mg/l
 ErC50 (Pseudokirchneriella subcapitata, 72 h): 15 mg/l

12.2 Persistence and degradability

Biodegradation

Product: No data available.

Specified substance(s)
 2,2,4-trimethyl-1,3-pentenediol monoisobutyrate > 77 % (28 d, Ready Biodegradability: CO2 Evolution Test) Readily biodegradable

Biological Oxygen Demand:

Product No data available.

Specified substance(s)
 2,2,4-trimethyl-1,3-pentenediol monoisobutyrate No data available.

Chemical Oxygen Demand:

Product No data available.

Specified substance(s)
 2,2,4-trimethyl-1,3-pentenediol monoisobutyrate No data available.

BOD/COD ratio**Product:** No data available.**Specified substance(s)**2,2,4-trimethyl-1,3-pentanediol
monoisobutyrate
No data available.**12.3 Bioaccumulative potential****Product:** No data available.**Specified substance(s)**2,2,4-trimethyl-1,3-pentanediol
monoisobutyrate
No data available.**12.4 Mobility in soil:** log Koc: 1.5 - 2.8**12.5 Results of PBT and vPvB assessment:** No data available.2,2,4-trimethyl-1,3-pentanediol
monoisobutyrate
Not fulfilling PBT
(persistent/bioaccumulative/toxic) criteria**12.6 Other adverse effects:** No data available.**SECTION 13: Disposal considerations****13.1 Waste treatment methods****General information:** No data available.**Disposal Methods:** Dispose of waste and residues in accordance with local authority requirements. Incinerate.**SECTION 14: Transport information**

Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.

DOT

Class not regulated

IMDG - International Maritime Dangerous Goods Code

Class not regulated

IATA

Class not regulated

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS (Canada) Status: noncontrolled

US EPCRA (SARA Title III) Section 313 - Toxic Chemical List

NONE

OSHA: nonhazardous

TSCA (US Toxic Substances Control Act): This product is listed on the TSCA inventory. Any impurities present in this product are exempt from listing.

DSL (Canadian Domestic Substances List) and CEPA (Canadian Environmental Protection Act): This product is listed on the DSL. Any impurities present in this product are exempt from listing.

AICS / NICNAS (Australian Inventory of Chemical Substances and National Industrial Chemicals Notification and Assessment Scheme): This product is listed on AICS or otherwise complies with NICNAS.

MITI (Japanese Handbook of Existing and New Chemical Substances): This product is listed in the Handbook or has been approved in Japan by new substance notification.

ECL (Korean Toxic Substances Control Act): This product is listed on the Korean inventory or otherwise complies with the Korean Toxic Substances Control Act.

Philippines Inventory (PICCS) : This product is listed on the Philippine Inventory or otherwise complies with PICCS.

Inventory of Existing Chemical Substances in China: All components of this product are listed on the Inventory of Existing Chemical Substances in China (IECSC).

SECTION 16: Other information

HMIS® Hazard Ratings: Health - 1, Flammability - 1, Chemical Reactivity - 0

HMIS® rating involves data interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

Revision Information: Not relevant.

Key literature references and sources for data: No data available.

Training information: No data available.

Issue Date: 08/10/2012

SDS No:

Disclaimer: This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.