

## Eastman TXIB(TM) Formulation Additive

Version            Revision Date:            SDS Number:            Date of last issue: -  
1.1                06/06/2018              150000066420        Date of first issue: 09/06/2016  
PRD                                             SDSUS / Z8 / 0001

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**SECTION 1. IDENTIFICATION**

Product name                            : Eastman TXIB(TM) Formulation Additive

Product code                            : 01315-00, P0131513, P0131514, P0131515, P0131517,  
P0131510, E01315E1, E01315E2, P013150A, P0131518,  
P0131519, E0131503, P0131520, P0131522, P0131523,  
P0131524, P0131525

**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                        : Additive  
Plasticizer

Restrictions on use                      : None known.

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**SECTION 2. HAZARDS IDENTIFICATION****GHS classification in accordance with 29 CFR 1910.1200**

Not a hazardous substance or mixture.

**GHS label elements**

Not a hazardous substance or mixture.

**Other hazards**

None known.

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

Substance / Mixture                    : Pure substance

Substance name                         : 01315-00

CAS-No.                                  : 6846-50-0

**Ingredients**

Chemical name	CAS-No.	Concentration (% w/w)
2,2,4-trimethyl-1,3-pentanediol diisobutyrate	6846-50-0	100

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**SECTION 4. FIRST AID MEASURES**

- If inhaled : Move to fresh air.  
Treat symptomatically.  
If symptoms persist, call a physician.
- In case of skin contact : Wash off with soap and water.  
If symptoms persist, call a physician.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- If swallowed : Seek medical advice.
- Most important symptoms and effects, both acute and delayed : None known.
- Notes to physician : Treat symptomatically.
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**SECTION 5. FIRE-FIGHTING MEASURES**

- Suitable extinguishing media : Water spray  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical  
Foam
- Unsuitable extinguishing media : None known.
- 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.
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**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 /
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---

national regulations (see section 13).

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**SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Wash thoroughly after handling.  
Use only in area provided with appropriate exhaust ventilation.

Conditions for safe storage : Keep tightly closed.

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**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Ingredients with workplace control parameters**

Contains no substances with occupational exposure limit values.

**Engineering measures** : 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 : Ensure that eye flushing systems and safety showers are located close to the working place.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Color : colorless

Odor : slight

Odor Threshold : not determined

pH : not determined

Melting point/freezing point : -94 °F / -70 °C

Boiling point/boiling range : 538.7 °F / 281.5 °C

Flash point : 277 °F / 136 °C  
(101.325 kPa)  
Method: Setaflash closed cup

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---

Evaporation rate	:	not determined
Flammability (solid, gas)	:	Not applicable
Self-ignition	:	748 °F / 398 °C Method: ASTM E659
Vapor pressure	:	< 1.5 Pa (77 °F / 25 °C)
Relative vapor density	:	9.9
Relative density	:	0.9435 (68 °F / 20 °C)
Solubility(ies)		
Water solubility	:	0.0009 - 0.013 g/l (77 °F / 25 °C)
Partition coefficient: n-octanol/water	:	log Pow: 4.04 - 4.91 (77 °F / 25 °C)
Autoignition temperature	:	not determined
Decomposition temperature	:	not determined
Viscosity		
Viscosity, dynamic	:	5.04 mPa.s (77 °F / 25 °C)
Viscosity, kinematic	:	5.3 mm <sup>2</sup> /s (77 °F / 25 °C)
Explosive properties	:	Not classified
Oxidizing properties	:	Not classified
Surface tension	:	27.8 mN/m, 72 °F / 22 °C
Molecular weight	:	286.4 g/mol

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**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	:	None reasonably foreseeable.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	Stable
Conditions to avoid	:	None known.
Incompatible materials	:	Strong oxidizing agents
Hazardous decomposition products	:	carbon dioxide Carbon monoxide

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**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

**Skin corrosion/irritation**

Not classified based on available information.

**Product:**

Remarks    :    No data available

**Serious eye damage/eye irritation**

Not classified based on available information.

**Product:**

Remarks    :    No data available

**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

**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.

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**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**

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 data available

**Information on likely routes of exposure****Product:**

Inhalation : Remarks: None known.

Skin contact : Remarks: None known.

Eye contact : Remarks: None known.

Ingestion : Remarks: None known.

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Product:**

Toxicity to fish : NOEC: (Fish):  $\geq 6$  mg/l  
Exposure time: 96 h  
Remarks: (limit of solubility in fresh water)

Toxicity to daphnia and other aquatic invertebrates : NOEC: (daphnid):  $\geq 1.46$  mg/l  
Exposure time: 48 h  
Remarks: (limit of solubility in fresh water)

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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              :    EC50 (Daphnia): > 1.3 mg/l  
aquatic invertebrates (Chronic          Exposure time: 21 d  
toxicity)                                      Remarks: (limit of solubility in fresh water)

NOEC: (Daphnia): 0.7 mg/l  
Exposure time: 21 d

**Persistence and degradability****Product:**

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

ThOD    :    2.40 g/g

**Bioaccumulative potential****Product:**

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

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

**Mobility in soil**

No data available

**Other adverse effects****Product:**

Ozone-Depletion Potential                  :    Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues                              :    Dispose of in accordance with local regulations.

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## SECTION 14. TRANSPORT INFORMATION

## International Regulations

## IATA-DGR

Not regulated as a dangerous good

## IMDG-Code

Not regulated as a dangerous good

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

Product name	:	2,2,4-TRIMETHYL-1,3-PENTANE DIOL DIISOBUTYRATE
Pollution category	:	Z
Ship type	:	3

## Domestic regulation

## 49 CFR

Not regulated as a dangerous good

## SECTION 15. REGULATORY INFORMATION

## EPCRA - Emergency Planning and Community Right-to-Know

## SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

Ingredients	CAS-No.	Component TPQ (lbs)
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**SARA 311/312 Hazards** : No SARA Hazards

**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.

## Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

## Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

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

DSL : All components of this product are on the Canadian DSL



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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

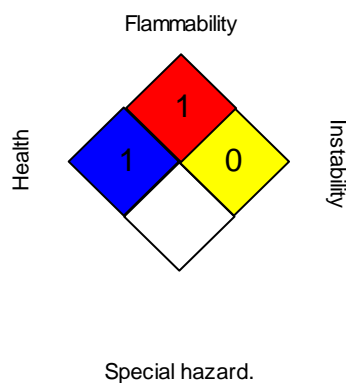
TCSI : On the inventory, or in compliance with the inventory

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:****HMIS® IV:**

<b>HEALTH</b>	/	1
<b>FLAMMABILITY</b>		1
<b>PHYSICAL HAZARD</b>		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;

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---

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

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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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