EASTMAN

MATERIAL SAFETY DATA SHEET

Revision Date: 2006.10.27
MSDSCN/ANSI/EN/150000063492/Version 3.2

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name	Eastman Optifilm(TM) Enhancer 300
Product Identification Number(s)	29200-00, P2920000, P2920002, P2920001, P2920004, P2920005
Manufacturer/Supplier	Eastman Chemical Company 200 South Wilcox Drive Kingsport, TN 37660-5280 US +14232292000
MSDS Prepared by	Eastman Product Safety and Health
Chemical Name	2,2-dimethyl-1-(methylethyl)-1,3-propanediyl bis(2-methylpropanoate)
Synonym(s)	983484
Molecular Formula	C16H30O4
Molecular Weight	286.42
Product Use	coatings
OSHA Status	

For emergency health, safety, and environmental information: telephone (86) 532 83889090 in China; 60-9-583-9696 in Malaysia; (65) 6831-3233 in Singapore and other Asia Pacific regions; or 00-1-423-229-4511 in the United States.

For emergency transportation information: telephone (86) 532 83889090 in China; (65) 6831-3233 in Singapore and other Asia Pacific regions; or 00-1-423-229-4511 in the United States. Identify the call as a transportation emergency.

2. COMPOSITION INFORMATION ON INGREDIENTS

(Typical composition is given, and it may vary. A certificate of analysis can be provided, if available.)

Weight %	Component	CAS Registry No.
100%	2,2,4-trimethyl-1,3-pentanediol diisobutyrate	6846-50-0

3. HAZARDS IDENTIFICATION

LOW HAZARD FOR RECOMMENDED HANDLING BY TRAINED PERSONNEL

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.

4. FIRST-AID MEASURES

Inhalation: If symptomatic, move to fresh air. Get medical attention if symptoms persist.

Eyes: 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: Wash with soap and water. Get medical attention if symptoms occur.
Ingestion: Seek medical advice.

5. FIRE FIGHTING MEASURES

Extinguishing Media: water spray, dry chemical, carbon dioxide, foam
Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.
Hazardous Combustion Products: carbon dioxide, carbon monoxide
Unusual Fire and Explosion Hazards: none

6. ACCIDENTAL RELEASE MEASURES

Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.
For Large Spills: Flush spill area with water spray. Prevent runoff from entering drains, sewers, or streams. Dike for later disposal.

7. HANDLING AND STORAGE

Personal Precautionary Measures: No special precautionary health measures should be needed under anticipated conditions of use.
Prevention of Fire and Explosion: Keep from contact with oxidizing materials.
Storage: Keep container closed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Country specific exposure limits have not been established or are not applicable unless listed below.

Ventilation: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory and eye protection may be needed in special circumstances; such as poorly ventilated spaces, heating, evaporation of liquids from large surfaces, spraying of mists, mechanical generation of dusts, drying of solids, etc.
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.
Eye Protection: It is a good industrial hygiene practice to minimize eye contact.
Skin Protection: It is a good industrial hygiene practice to minimize skin contact.
Recommended Decontamination Facilities: eye bath, washing facilities

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: liquid
Color: colorless
Odor: slight
Specific Gravity: 0.942 - 0.948 (20 °C)
Vapor Pressure: 25 °C; 0.004 mbar
Vapor Density: 9.9
Melting Point: -70 °C
Boiling Point: 281.5 °C
Viscosity: 9 mPa.s (25 °C) ,
Solubility in Water: negligible
Octanol/Water Partition Coefficient: P: 1,258,925; log P: 6.1(estimated)
Flash Point: 128 °C (Pensky-Martens closed cup)
Autoignition Temperature: 424 °C (ASTM D2155)
Thermal Decomposition Temperature: No exotherm to 400°C

10. STABILITY AND REACTIVITY

Stability:	Stable.
Incompatibility:	Material reacts with strong oxidizing agents.
Hazardous Polymerization:	Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity data, if available, are listed below. Additional toxicity data may be available on request.

Oral LD-50:(rat)	>3.2 g/kg(highest dose tested)
Oral LD-50:(mouse)	>6.4 g/kg(highest dose tested)
Inhalation LC-50: (rat)	6 h: >5.3 mg/l (highest dose tested)
Dermal LD-50: (guinea pig)	> 18.9 g/kg (highest dose tested)
Skin Irritation (guinea pig)	slight
Eye Irritation (rabbit)	slight
Skin Sensitization: (guinea pig)	none

12. ECOLOGICAL INFORMATION

Acute toxicity data, if available, are listed below. Additional toxicity data may be available on request.

Oxygen Demand Data:

BOD-5 and BOD-20 were not determined because the aqueous solubility of the test article was below that which is required for these tests.
ThBOD: 2.40 g/g

Acute Aquatic Effects Data:

96 h LC-50 (fathead minnow): > 1.55 mg/l NOEC: 1.55 mg/l (highest concentration tested), (limit of solubility in fresh water)

96 h LC-50 (sideswimmer): > 1.55 mg/l NOEC: 1.55 mg/l (highest concentration tested), (limit of solubility in fresh water)
96 h LC-50 (ramshorn snail): > 1.55 mg/l NOEC: 1.55 mg/l (highest concentration tested), (limit of solubility in fresh water)
96 h LC-50 (aquatic earthworm): > 1.55 mg/l NOEC: 1.55 mg/l (highest concentration tested), (limit of solubility in fresh water)
96 h LC-50 (pill bug): > 1.55 mg/l NOEC: 1.55 mg/l (highest concentration tested), (limit of solubility in fresh water)
96 h LC-50 (flatworm): > 1.55 mg/l NOEC: 1.55 mg/l (highest concentration tested), (limit of solubility in fresh water)
48 h EC-50 (daphnid): > 1.46 mg/l NOEC: 1.46 mg/l (highest concentration tested), (limit of solubility in fresh water)

13. DISPOSAL CONSIDERATIONS

Discharge, treatment, or disposal may be subject to national, state, or local laws. Incinerate.

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.

Sea - IMDG (International Maritime Dangerous Goods)

Class not regulated

Air - ICAO (International Civil Aviation Organization)

Class not regulated

15. REGULATORY INFORMATION

SARA 313: none, unless listed below

Carcinogenicity Classification (components present at 0.1% or more): none, unless listed below

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.

EINECS (European Inventory of Existing Commercial Chemical Substances): This product is listed on EINECS or otherwise complies with EINECS requirements.

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).

16. OTHER INFORMATION

Visit our website at www.EASTMAN.com or call 001-423-229-2000.

The information contained herein is based on current knowledge and experience; no responsibility is accepted that the information is sufficient or correct in all cases. Users should consider these data only as a supplement to other information. Users should make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials, the safety and health of employees and customers, and the protection of the environment.

Highlighted areas indicate new or changed information.