

EASTMAN

MATERIAL SAFETY DATA SHEET

Revision Date: 01/15/2009
MSDSUSA/ANSI/EN/150000001068/Version 4.1

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

| | |
|---|--|
| Product Name | Eastman(TM) DIBK |
| Product Identification Number(s) | 01137-00, P0113700, P0113701, P0113702, P0113703, P0113704, P011370W |
| 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 | not applicable |
| Synonym(s) | 01137-00 904306 |
| Molecular Formula | not applicable |
| Molecular Weight | not applicable |
| Product Use | solvent |
| OSHA Status | hazardous |

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.

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. |
|-----------------|--------------------------|-------------------------|
| 80 - 95% | 2,6-dimethyl-4-heptanone | 108-83-8 |
| 10 - 15% | 4,6-dimethyl-2-heptanone | 19549-80-5 |
| <2% | 2,6-dimethyl-4-heptanol | 108-82-7 |

3. HAZARDS IDENTIFICATION

CAUTION!

HIGH VAPOR CONCENTRATIONS MAY CAUSE DROWSINESS AND IRRITATION OF THE EYES OR RESPIRATORY TRACT
PROLONGED OR REPEATED SKIN CONTACT MAY CAUSE DRYING, CRACKING, OR IRRITATION
POTENTIAL PEROXIDE FORMER
COMBUSTIBLE LIQUID AND VAPOR

HMIS® Hazard Ratings: Health - 1, Flammability -2, 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

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Inhalation: Move to fresh air. Treat symptomatically. 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. In case of irritation from airborne exposure, move to fresh air. Get medical attention if symptoms persist.

Skin: Wash with soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.

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. USE WATER WITH CAUTION. Material will float and may ignite on surface of water. Use water spray to keep fire-exposed containers cool.

Hazardous Combustion Products: carbon dioxide, carbon monoxide

Unusual Fire and Explosion Hazards: Combustible.

6. ACCIDENTAL RELEASE MEASURES

Use personal protective equipment. Eliminate all ignition sources. 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: Avoid breathing high vapor concentrations. Avoid prolonged or repeated contact with skin. Use only with adequate ventilation. Wash thoroughly after handling.

Prevention of Fire and Explosion: Keep away from heat and flame. Keep from contact with oxidizing materials. Minimize exposure to air. If peroxide formation is suspected, do not open or move container.

Storage: Keep container closed.

Additional Information: Store away from heat and light.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

DIISOBUTYL KETONE

US. ACGIH Threshold Limit Values

Time Weighted Average (TWA): 25 ppm,

US. NIOSH: Pocket Guide to Chemical Hazards

Recommended exposure limit (REL): 25 ppm, 150 mg/m³

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

PEL: 50 ppm, 290 mg/m³

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Ventilation: 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.

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: Wear safety glasses with side shields (or goggles). Wear a full-face respirator, if needed.

Skin Protection: For operations where prolonged or repeated skin contact may occur, chemical-resistant gloves should be worn. Contact health and safety professional or manufacturer for specific information.

Recommended Decontamination Facilities: eye bath, safety shower, washing facilities

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: liquid

Color: colorless

Odor: mild

Odor Threshold: 0.11 ppm

Specific Gravity: 0.81 (20 °C)

Vapor Pressure: 20 °C; 2.3 mbar

Vapor Density: 4.9

Boiling Point: 163 °C

Evaporation Rate: 0.2 (n-butyl acetate = 1)

Solubility in Water: negligible

Flash Point: 49 °C (Tag closed cup)

Autoignition Temperature: 396 °C (ASTM D2155)

Thermal Decomposition Temperature: (DTA) No exotherm to 450°C

10. STABILITY AND REACTIVITY

| | |
|----------------------------------|---|
| Stability: | Stable; however, material can decompose at elevated temperatures. On long term storage, materials containing similar functional groups form peroxides of unknown stability. |
| 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) > 3,200 mg/kg(highest dose tested)

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| | |
|--|------------------------------------|
| Oral LD-50:(mouse) | > 3,200 mg/kg(highest dose tested) |
| Inhalation LC-50: (rat) | 6 h: 1979 ppm |
| Dermal LD-50: (guinea pig) | > 20 ml/kg (highest dose tested) |
| Skin Irritation (guinea pig) | none |
| Eye Irritation (rabbit, unwashed eyes) | slight |
| Eye Irritation (rabbit, washed eyes) | 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: 170 mg/g

ThBOD: 2,920 mg/g

Acute Aquatic Effects Data:

96 h LC-50 (fathead minnow): >100 microliter(s)/l

96 h LC-50 (daphnid): >100 microliter(s)/l

13. DISPOSAL CONSIDERATIONS

Discharge, treatment, or disposal may be subject to national, state, or local laws. Incinerate. Since emptied containers retain product residue, follow label warnings even after container is emptied.

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.*

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DOT (USA)

Class combustible liquid, Packing group III for quantities of 450 liters (119 gallons) or more; not regulated for smaller quantities

Possible Shipping Description(s):

not regulated

UN 1157 Diisobutyl Ketone combustible liquid III

Sea - IMDG (International Maritime Dangerous Goods)

Possible Shipping Description(s):

UN 1157 DIISOBUTYL KETONE 3 III

Air - ICAO (International Civil Aviation Organization)

Possible Shipping Description(s):

UN 1157 Diisobutyl ketone 3 III

15. REGULATORY INFORMATION

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

WHMIS (Canada) Status: controlled

WHMIS (Canada) Hazard Classification: B/3

SARA 311-312 Hazard Classification(s):
fire hazard

SARA 313: none, unless listed below

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

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TSCA (US Toxic Substances Control Act): All components of this product are 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): All components of this product are listed on the DSL. Any impurities present in this product are exempt from listing.

EINECS (European Inventory of Existing Commercial Chemical Substances): All components of this product are listed on EINECS.

AICS / NICNAS (Australian Inventory of Chemical Substances and National Industrial Chemicals Notification and Assessment Scheme): All components of this product are listed on AICS or otherwise comply with NICNAS.

MITI (Japanese Handbook of Existing and New Chemical Substances): All components of this product are listed in the Handbook or have been approved in Japan by new substance notification.

ECL (Korean Toxic Substances Control Act): All components of this product are listed on the Korean inventory or otherwise comply with the Korean Toxic Substances Control Act.

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 email emnmsds@eastman.com

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.