Carolina International Sales Co., Inc

MATERIAL SAFETY DATA SHEET

2522 Plantation Center Drive
Matthews, NC 28105
(704) 845 9440
www.ciscochem.com

IN CASE OF
TRANSPORT EMERGENCY
CONTACT CHEMTREC
USA: 1-800-424-9300
INTERNATIONAL: 1-703-527-3887

1. PRODUCT NAME: Dioctyl Adipate

2. CHEMICAL NAME: bis (2-ethylhexyl) adipate

3. SYNOMYMS:

4. CAS NUMBER: 103-23-1

5. COMPOSITION: Dioctyl Adipate (104-23-1) 100%

6. PROPERTIES:
APPEARANCE AND ODOR: Clear water white liquid with mild odor.
MELTING POINT: N/A
SPECIFIC GRAVITY: 0.92 (H*20=1)
PERCENT VOLATILES BY VOLUME: NIL
STABILITY: Yes
CONDITION TO AVOID (STABILITY): None
MATERIALS TO AVOID: Strong oxidizing agents
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide and Carbon monoxide
HAZARDOUS POLYMERIZATION OCCUR: No
CONDITIONS TO AVOID (POLY): Not relevant.

7. HAZARDS:
LD50-LC50 Mixture: LD50: (Oral, Rat) 9.1 g/kg
ROUTE OF ENTRY: Inhalation: Yes
ROUTE OF ENTRY: Skin: Yes
ROUTE OF ENTRY: Ingestion: Yes
HEALTH HAZARD ACUTE AND CHRONIC:
Inhalation: Overexposure to mist may cause irritation of Respiratory tract.
Skin: May cause slight irritation. Skin (absorb): Considered practically non-toxic.
Eye: May cause slight irritation.
Ingestion: Considered practically non-toxic.
Acute: Possible skin & eye irritation. Possible Cancer hazard based on tests with lab animals.
CARCINOGENICITY – NTP: No
- IARC: No
- OSHA: No
EXPLANATION CARCINOGENICITY: Not relevant

8. FIRE FIGHTING INFORMATION:
FLASH POINT: >200F, >93 C
FLASH POINT METHOD: PMCC
EXTINGUISHING MEDIA: Water spray, carbon dioxide, foam & dry chemical.
SPECIAL FIR FIGHTING PROC: Wear NIOSH/MSHA approved SCBA & full protective equipment (FP N). Cool Exposed containers with water spray.
UNUSUAL FIRE AND EXPLOSION HAZARDS: None

9. PERSONAL PROTECTION MEASURES:
RESPIRATORY PROTECTION: None required under normal conditions of use. NIOSH/MSHA approved respirator is necessary.
VENTILATION: Local exhaust ventilation recommended.
PROTECTION GLOVES: rubber/Plastic gloves.
EYE PROTECTION: ANSI approved chemical workers goggles.
OTHER PEOTECTION EQUIPMENT: Emergency eyewash & Deluge shower meeting ANSI Design criteria. Standard work clothing & work shoes.
WORK HYGIENIC PRACTICES: Wash thoroughly after handling.

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SUPPL. SAFETY & HEALTH DATA: First Aid Proc.: Tickling back of throat with finger. Keep airway clear. Get medical attention. Never give anything by mouth to an unconscious person,

10. FIRST AID PROCEDURES: EYES: flush at once with large amounts of water for at least 15 minutes holding lids apart. Washing within one minute is essential to achieve maximum effectiveness. Get medical attention.
SKIN: Wash thoroughly with soap & water, remove contaminated clothing & footwear. Wash clothing before reuse. Get medical attention if irritation should develop.
INHALATION: Remove to fresh air.
INGESTION: Give conscious person several glasses of water, then induce vomiting by (SUPDAT)

11. EXPOSURE LIMITS: NE

12. TOXICOLOGICAL INFORMATION: Acute oral toxicity (LD50): 5600-45000 mg/kg (Rat), Practically non-toxic.
Liver and kidney effects were reported in rats after repeated exposure to dioctyl adipate in their diet. Effects on litter size and weights reported in the offspring of rats in a one generation reproduction study. No effects on male or female fertility were reported. Birth defects were reported in the offspring of rats given dioctyl adipate in their diet during gestation. Liver tumors were reported in mice after repeated exposure to dioctyl adipate in their diet. DOA is classified as Class 3, Not Classifiable as to Carcinogenicity to Humans, by International Agency on Cancer Research (IARC). Genetic changes were reported in one standard test using animals (DNA synthesis). No genetic changes were reported in a variety of other standard tests using animal and bacteria cells and fruit flies.

13. ECOLOGICAL INFORMATION: Dioctyl adipate is considered readily biodegradable – 65-95% at 24 hours. 35 day CO2 evolution test – 94% biodegradation.
28 day BCF – 27 in Bluegill sunfish.
logKow - >6.11

14. DISPOSAL CONSIDERAIONS: Disposal of products in an approved chemical waste landfill/incin. In accord with applic. Federal, State & Local Regs. Since emptied container retains product residues all labeled hazard precautions must be observed.

15. CARCINOGENIC PROPERTIES & NOTIFICATIONS: Possible cancer Hazard based on tests with lab animals.

16. TRANSPORT INFORMATION: DOT Proper Shipping Name Not applicable
DOT Hazard Class Not a DOT controlled material (United States).
UN Identification Number Not applicable
Packing Group Not applicable
Additional Information IMO/IMDG: Not regulated

17. HANDLING & STORAGE: PRECAUTIONS – HANDLING/STORING: Product may conceal or stratify if cold. Warm to 122 F (50 C) & Mix well before using.
OTHER PRECAUTIONS: May cause irritation. Avoid CONT with eyes, skin & clothing. Avoid breathing spray/mist. For industrial use only.

18. ACCIDENTAL RELEASE STEPS IF MATERIAL RELEASED/SPILL: Stop leaks. Clean up large spills with vacuum truck. Soak up small spills with absorbs material & place in labeled waste container for disposal. Wear adequate per-

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MEASURES: sonal protection clothing & equipment.

19. REGULATORY INFORMATION: Dioctyl Adipate
Safe Drinking Water Act MCLs (40 CFR 141)
Safe Drinking Water Act MCLGs (40 CFR 141)
Safe Drinking Water Act Synthetic Organic Chemical Monitoring (40 CFR 141)
Massachusetts Right-to-Know Substance List
New Jersey Right-to-Know Substance List
New Jersey Community Right-to-Know Survey: N.J. Environmental Hazardous Substances List
New Jersey Spill Tax List
NJ Environmental Hazard Sub-list
Pennsylvania Right-to-Know Hazardous Substances