

Material Safety Data Sheet

Di Octyl Adipate

Section 1 - Chemical Product and Company Identification

Chemical Name: bis (2 ethylhexyl) Adipate

Synonyms: Di Octyl Adipate.

Company Identification: Nayakem Organics Pvt Ltd.
B-1104, Naman Midtown,
Senapati Bapat Marg, Prabhadevi,
Mumbai - 400013.
Maharashtra, India.

Emergency Contact No. : (022) 24314854 / 55.

Section 2 - Information on Ingredients

CAS#	Chemical Name	Percent
103 - 23 - 1	Bis (2 Ethylhexyl) Adipate	99
104 - 76 - 7	2 ethylhexanol	0.3

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance : Colourless to Pale yellow liquid.

Warning! May Causes eye and skin irritation. May cause respiratory tract irritation.

Target Organs : Eyes, skin.

Potential Health Effects

Eye : Causes eye irritation.

Skin : Causes skin irritation.

Ingestion : May cause irritation of the digestive tract.

Inhalation : May cause respiratory tract irritation.

Section 4 - First Aid Measures

- Eyes** : Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation develops, get medical aid.
- Skin** : Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.
- Ingestion** : If swallowed, induce vomiting as directed by medical personnel. Get medical aid if irritation or symptoms occur.
- Inhalation** : Remove from exposure and move to fresh air immediately. Get medical aid if cough or other symptoms appear.
- Notes to Physician:** No Additional Remark

Section 5 - Fire Fighting Measures

- Flammability** : Combustible.
- Extinguishing Media** : Use carbon dioxide, dry chemical, water spray or foam.
- unsuitable Extinguishing Media** : Do not use water jet
- Protective Equipments and precaution for fire fighters** : Fire Fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear and self contained breathing apparatus.

Section 6 - Accidental Release Measures

- Personal Precaution** : Safety Glasses, Lab Coat, Gloves.
- Spills/Leaks** : Sweep up or absorb with an inert material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Stop the leak if possible. Remove all ignition sources

Section 7 - Handling and Storage

- Handling** : Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid breathing dust. Keep away from sources of ignition.
- Storage** : Store in a well-ventilated area away from sources of ignition.

Section 8 - Exposure Controls, Personal Protection

Exposure Guidelines	: Not Available
Engineering Controls	: Investigate engineering controls to reduce exposure. Provide ventilation if necessary to minimize exposure. If practical use local mechanical exhaust ventilation at sources of air contamination such as open process equipments.
Personal Protective Equipment	: Splash goggles, full suit. Vapour respirator, boots, gloves. Suggested protective clothing's might not be sufficient consult a specialist before handling this product.

Section 9 - Physical and Chemical Properties

Physical State	: liquid
Appearance	: Colourless to pale yellow
Odor	: Slight aromatic odor
pH	: Not available.
Vapor Pressure	: 0.00000085 mm of Hg (@ 20°C).
Vapor Density	: 12.8 (Air =1)
Evaporation Rate	: Not available.
Viscosity	: 13.7 cP.
Boiling Point	: 215 °C @ 5mm of Hg
Freezing/Melting Point	: -67.8 °C
Decomposition Temperature	: Not available.
Solubility	: soluble in Methanol, Di Ethyl Ether, n-Octanol, Acetone. Insoluble in water.
Flash Point	: OPEN CUP 206 °C
Specific Gravity/Density	: 0.922
Molecular Formula	: C22H42O4
Molecular Weight	: 370.58

Section 10 - Stability and Reactivity

Chemical Stability	: Stable.
Conditions to Avoid	: Not Available.
Incompatibilities with Other Materials	: Reactive with Strong oxidizers.
Hazardous Decomposition Products	: Not Available.
Hazardous Polymerization	: Not Available.

Section 11 - Toxicological Information

Toxicity to animals : Acute oral toxicity (LD50): 5600 – 45000 mg/kg (Rat). Practically non toxic. Liver and Kidney effects reported in rats after repeated exposure to Di Octyl 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 Di Octyl Adipate in their diet during gestation. Liver tumors were reported in mice after repeated exposure to Di Octyl 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 test using animals and bacteria cells and fruit files.

Section 12 - Ecological Information

Ecotoxicology : Not available.
Chemical Fate : DOA is considered readily biodegradable– 65-95% at 24 hour. 35day CO2 evolution test – 94% biodegradation.

Section 13 - Disposal Considerations

Waste disposal : Recycle if possible. Consult your local or regional authorities for disposal options.

Section 14 - Transport Information

DOT Shipping Name:	Not Applicable
DOT Hazard Class:	Not a DOT control material
UN Number:	Not Applicable
Packing Group:	Not Applicable

Section 15 - Regulatory Information

Federal and State Regulations: Di Octyl 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

2-Ethylhexanol

TSCA Section 4(a) Proposed Test Rules (40 CFR 799, Subprt B&D)
TSCA Section 4(a) Final Test Rules & Testing Consent Orders (40 CFR 799, Subprt B&D)
TSCA Section 8(a) Inventory Update Rule (IUR): Subject to Special Regulatory Action under TSCA (EPA Form U)
TSCA Section 8(d) Reporting Termination (40 CFR 716, Subprt B)
TSCA Section 12(b) Export Notification (40 CFR 707, Subprt D)
Clean Air Act Section 111 Potential Human Health Hazard (40 CFR 60.489)
Flavor and Extract Manufacturers Association (FEMA) Generally Recognized as Safe (GRAS) Listing
Florida Toxic Substances Right-to-Know Substance List
Massachusetts Right-to-Know Substance List
Pennsylvania Right-to-Know Hazardous Substances

Section 16 - Additional Information

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