

Diethyl Adipate

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: Diethyl Adipate
CAS Number: 103-23-1
EC Number: 203-090-1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified use: Laboratory chemicals, manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company name: East Harbour Group Ltd
20 Clough Road, Severalls Industrial Park
Colchester, Essex, CO4 9QS
United Kingdom

Telephone: +44 (0) 333 242 0100
Email: info@eastharbourgroup.com

1.4 Emergency telephone number

Emergency telephone: 0800 246 1274

Section 2: Hazardous identification

2.1 Classification of the substance or mixture

Potential acute health effects: hazardous in case of eye contact (irritant), of inhalation (lung irritant)
Potential chronic health effects: Carcinogenic effects: 3 (not classifiable for human.) by IARC. Mutagenic effects: Not available. Teratogenic effects: Not available. Developmental toxicity: Classified development toxin (possible). The substance is toxic to blood, the reproductive system, liver, upper respiratory tract. Repeated or prolonged exposure to the substance can produce target organs damage.

Section 3: Composition/information on ingredients

3.2 Mixtures

CAS #	Content (W/W)	Ingredients
103-23-1	100%	Diethyl Adipate

Chemical name: Diethyl Adipate

Dioctyl Adipate

Common name / synonyms: Dioctyl Adipate

Section 4: First aid measures

4.1 Description of first aid measures

In case of skin contact: No known effect on skin contact, rinse with water for a few minutes.

In case of eye contact: Check for and remove any contact lenses. Do not use an eye ointment. Seek medical attention.

If swallowed: Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention immediately.

If inhaled: Allow the victim to rest in a well-ventilated area. Seek immediate medical attention.

Section 5: Fire-fighting measures

5.1 Fire Fighting Media and Instructions:

Small fire: Use DRY chemical powder.

Large fire: Use water spray, fog or foam. Do not use water jet.

5.2 Special hazards arising from the substance or mixture

No information available

Section 6: Accidental release measures

Small spill: Absorb with an inert material and put the spilled material in an appropriate waste disposal.

Large spill: Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7: Handling and storage

7.1 Precautions for safe handling

Keep locked up. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapour/spray. Avoid contact with eyes. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids.

7.2 Conditions for safe storage, including any incompatibilities

Keep container dry. Keep in a cool place. Ground all equipment containing material. Carcinogenic, teratogenic or mutagenic materials should be stored in a separate locked safety storage cabinet or room.

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Section 8: Exposure controls/personal protection

8.1 Control parameters

No information available

8.2 Exposure controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

8.3 Personal protective equipment

Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Amber (light)
Physical State	Liquid
Odor	Aromatic (slight)
Odor Threshold	No data available
pH	No information available
Melting Point/Range	-67 C (-88.6 F)
Boiling Point/Range	214 C (417.2 F)
Flash Point	No information available
Evaporation Rate	No information available
Flammability (solid, gas)	No information available
Explosion Limits	No information available
Vapor Pressure	No information available
Vapor Density	12.8 (Air = 1)
Specific Gravity / Density	No information available
Bulk Density	No information available
Water Solubility	No information available
Solubility in other solvents	Soluble in methanol, diethyl ether, n-octanol, acetone
Partition Coefficient	No information available
Auto-ignition temperature	No information available
Decomposition temperature	No information available

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Section 10: Stability and Reactivity

10.1 Reactivity	No information available
10.2 Chemical Stability	The product is stable
10.3 Possibility of hazardous reactions	No information available
10.4 Conditions to avoid	No information available
10.5 Incompatible materials	Highly reactive with oxidising agents, acids
10.6 Hazardous decomposition products	No information available

Section 11: Toxicological Information

Product Information

11.1 Toxicological effects:

Routes of entry: eye contact, inhalation, ingestion

Toxicity to animals: acute oral toxicity (LD50): 9100 mg/kg (rat)

Carcinogenic effects: 3 (not classifiable for human) by IARC. DEVELOPMENTAL

Toxicity: Classified Development toxin (POSSIBLE)

The substance is toxic to blood, the reproductive system, liver, upper respiratory tract.

Other toxic effects on humans: hazardous in case of inhalation (lung irritant)

Section 12: Ecological Information

12.1 Toxicity

Ecotoxicity effects

Products of biodegradation: possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the products of biodegradation: the product itself and its products of degradation are not toxic.

Section 13: Disposal considerations

13.1 Waste treatment methods

Waste must be disposed of in accordance with regulations.

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Section 14: Transport Information

SARA 313: Not regulated

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

Section 15: Regulatory Information

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.