MATERIAL SAFETY DATA SHEET

Adipic acid

Section 1 - Chemical Product and Company Identification

MSDS Name:	**Adipic Acid**
Synonyms:	Hexanedioic acid

Company Identification:	**Hazel Mercantile Limited**
Company Identification: (INDIA)	701/712 A, Embassy Centre, Nariman Point, Mumbai - 400 021.
For information in the INDIA, call:	+91 - 22 - 2282 4444 (50 Lines)

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
124-04-9	Adipic acid	99%	204-673-3

Hazard Symbols:	XI
Risk Phrases:	36

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Irritating to eyes.

Potential Health Effects

Eye:	Causes eye irritation. Causes redness and pain.
Skin:	May cause skin irritation.
Ingestion:	Ingestion of large amounts may cause gastrointestinal irritation. Expected to be a low ingestion hazard.
Inhalation:	May cause respiratory tract irritation. Low hazard for usual industrial handling.
Chronic:	No information found.

Section 4 - First Aid Measures

Eyes:	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. 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 victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.
Inhalation:	Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.
Notes to Physician:	

Section 5 - Fire Fighting Measures

General Information:	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion.
Extinguishing Media:	Use water spray, dry chemical, carbon dioxide, or chemical foam.

Section 6 - Accidental Release Measures

General Information:	Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks:	Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions.

Section 7 - Handling and Storage

Handling:	Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Avoid mechanical shock and friction.
Storage:	Store in a cool, dry place. Store in a tightly closed container.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.
Exposure Limits	CAS# 124-04-9: Belgium - TWA: 5 mg/m3 VLE Malaysia: 5 mg/m3 TWA Netherlands: 5 mg/m3 MAC. Spain: 5 mg/m3 VLA-ED
Personal Protective Equipment	
Eyes:	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin:	Wear appropriate gloves to prevent skin exposure.
Clothing:	Wear appropriate protective clothing to minimize contact with skin.
Respirators:	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State:	Crystalline powder
Color:	white
Odor:	odorless
pH:	Not available
Vapor Pressure:	<1mbar @20 deg C
Viscosity:	Not available
Boiling Point:	265 deg C @100mmHg (509.00°F)
Freezing/Melting Point:	151 - 153 deg C
Autoignition Temperature:	420 deg C (788.00 deg F)
Flash Point:	196 deg C (384.80 deg F)
Explosion Limits: Lower:	Not available
Explosion Limits: Upper:	Not available
Decomposition Temperature:	
Solubility in water:	1.44 g/100 ml water (15°C)
Specific Gravity/Density:	
Molecular Formula:	C6H10O4
Molecular Weight:	146.14

Section 10 - Stability and Reactivity

Chemical Stability:	Stable under normal temperatures and pressures.
Conditions to Avoid:	Incompatible materials, dust generation, heating to decomposition.
Incompatibilities with Other Materials	Strong oxidizing agents, reducing agents, bases, steel.
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide.
Hazardous Polymerization	Will not occur.

Section 11 - Toxicological Information

RTECS#:	CAS# 124-04-9: AU8400000
LD50/LC50:	RTECS: **CAS# 124-04-9:** Draize test, rabbit, eye: 20 mg/24H Moderate; Oral, mouse: LD50 = 1900 mg/kg; Oral, rabbit: LD50 = >11 gm/kg; Oral, rat: LD50 = >11 gm/kg; Other: Inhalation, rat: LC50 = >7.7 mg/l/4H
Carcinogenicity:	Adipic acid - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Other:	Mutagenicity: Ames-test: negative. See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Ecotoxicity:	Daphnia: EC/LC50: 86 mg/l; 48H; Bacteria: EC/LC0: 10000 mg/l; 16H;
Other:	Biodegradable. Fish toxicity: LC50 (24-96 hr) bluegill sunfish, fathead minnow 330-97 mg/l static bioassay at 18-22°CBioaccumulation: The low partition coefficient indicates that bioconcentration in fish will be negligible.

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

	IATA	IMO	RID/ADR
Shipping Name:	Not regulated.	Not regulated.	Not regulated.
Hazard Class:			
UN Number:			
Packing Group:			

USA RQ: CAS# 124-04-9: 5000 lb final RQ; 2270 kg final RQ

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives	
Hazard Symbols: XI	
Risk Phrases:	➢ R 36 Irritating to eyes.
Safety Phrases:	➢ WGK (Water Danger/Protection)
	➢ CAS# 124-04-9: 0
Canada	➢ CAS# 124-04-9 is listed on Canada's DSL List
US Federal	➢ TSCA
	○ CAS# 124-04-9 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date:	September 03, 2007
Revision #0 Date	

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