

Adipic Acid,

SECTION 1 : Identification of the substance/mixture and of the supplier

Product name : Adipic Acid,

Trader/Supplier: Sahastraa exports Pvt Ltd

Address : Navkar plaza 6th floor, Bajaj road, vile Parle west , Mumbai- 400056

SECTION 2 : Hazards identification

Classification of the substance or mixture:



Corrosive

Serious eye damage, category I

Eye Damage. I

Aquatic AcTox. 3

Signal word: Danger

Hazard statements:

Causes serious eye damage

Harmful to aquatic life

Precautionary statements:

If medical advice is needed, have product container or label at hand

Keep out of reach of children

Read label before use

Avoid release to the environment

Wear protective gloves/protective clothing/eye protection/face protection

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do.

Continue rinsing

Immediately call a POISON CENTER or doctor/physician

Dispose of contents and container to an approved waste disposal plant

Adipic Acid:

Combustible dust.

Other Non-GHS Classification:

WHMIS
NFPA/HMIS

Adipic Acid,


NFPA SCALE (0-4)

Health	2
Flammability	1
Physical Hazard	0
Personal Protection	X

HMIS RATINGS (0-4)

SECTION 3 : Composition/information on ingredients
Ingredients:

CAS 124-04-9	Adipic Acid	100 %
Percentages are by weight		

SECTION 4 : First aid measures
Description of first aid measures

After inhalation: Loosen clothing as necessary and position individual in a comfortable position. Move exposed to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen. Consult a physician.

After skin contact: Wash hands and exposed skin with soap and plenty of water. Remove contaminated clothing and shoes. Consult a physician.

After eye contact: Protect unexposed eye. Rinse or flush exposed eye gently using water for 15-20 minutes. Remove contact lenses while rinsing. Consult a physician.

After swallowing: Rinse mouth thoroughly. Do not induce vomiting. Seek medical attention if irritation, discomfort, or vomiting persists. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed:

Irritation. Headache. Nausea. Shortness of breath.;

Indication of any immediate medical attention and special treatment needed:

If seeking medical attention provide SDS document to physician. Physician should treat symptomatically.

SECTION 5 : Firefighting measures
Extinguishing media

Suitable extinguishing agents: Use water, dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

For safety reasons unsuitable extinguishing agents:

Special hazards arising from the substance or mixture:

Thermal decomposition can lead to release of irritating gases and vapors.

Advice for firefighters:

Protective equipment: Wear protective eyewear, gloves, and clothing. Refer to Section 8.

Additional information (precautions): Avoid inhaling gases, fumes, dust, mist, vapor, and aerosols. Avoid contact with skin, eyes, and clothing. Avoid generating dust. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.

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SECTION 6 : Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation. Ensure that air-handling systems are operational.

Environmental precautions:

Should not be released into environment. Prevent from reaching drains, sewer, or waterway. Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up:

Wear protective eyewear, gloves, and clothing. Refer to Section 8. Sweep up and containerize for disposal. Avoid generating dust. Always obey local regulations. If necessary use trained response staff or contractor. Evacuate personnel to safe areas. Pick up and arrange disposal without creating dust. Follow proper disposal methods.

Refer to Section 13. Keep in suitable closed containers for disposal.

Reference to other sections:

SECTION 7 : Handling and storage

Precautions for safe handling:

Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Follow proper disposal methods. Refer to Section 13. Wash hands after handling. Avoid contact with skin and eyes. Do not eat, drink, smoke, or use personal products when handling chemical substances. Perform routine housekeeping to prevent dust generation. Containers of this material may be hazardous when empty.

Conditions for safe storage, including any incompatibilities:

Store in a cool location. Keep away from food and beverages. Protect from freezing and physical damage. Provide ventilation for containers. Keep container tightly sealed. Store away from incompatible materials.

SECTION 8 : Exposure controls/personal protection



Control Parameters:

124-04-9 , Adipic Acid , ACGIH: 5 mg/m³ TWA

Appropriate Engineering controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

Respiratory protection:

Not required under normal conditions of use. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. When necessary use NIOSH approved breathing equipment.

Protection of skin:

Select glove material impermeable and resistant to the substance. Select glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves. Wear protective clothing.

Adipic Acid,

- Eye protection:** Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses or goggles are appropriate eye protection.
- General hygienic measures:** Wash hands before breaks and at the end of work. Avoid contact with skin, eyes, and clothing. Before wearing wash contaminated clothing. Perform routine housekeeping to prevent dust generation. Perform routine housekeeping to prevent dust generation.

SECTION 9 : Physical and chemical properties

Appearance (physical state,color):	White solid	Explosion limit lower: Explosion limit upper:	Non Explosive Non Explosive
Odor:	Odorless	Vapor pressure:	1 hPa (1 mmHg) at 159.5 °C; 0.097 hPa (0.073 mmHg) at 18.5 °C
Odor threshold:	Not Determined	Vapor density:	5.04 (air=1)
pH-value:	3.2 (0.1% solution)	Relative density:	Not Determined
Melting/Freezing point:	151 - 154 °C	Solubilities:	Methanol - soluble. Ethanol - soluble. Acetone - soluble. Benzene - slightly soluble. Soluble in water : 2.0 g/100g @ 25°C
Boiling point/Boiling range:	265 °C at 133 hPa (100 mmHg)	Partition coefficient (n-octanol/water):	log Pow: 0.093 at 25 °C
Flash point (closed cup):	196 °C	Auto/Self-ignition temperature:	> 400 °C
Evaporation rate:	Not Determined	Decomposition temperature:	Not Determined
Flammability (solid,gaseous):	May form combustible dust concentrations in air.	Viscosity:	a. Kinematic: Not Determined b. Dynamic: Not Determined
Density: Not Determined			

SECTION 10 : Stability and reactivity

- Reactivity:** Nonreactive under normal conditions.
- Chemical stability:** Stable under normal conditions.
- Possible hazardous reactions:** None under normal processing.
- Conditions to avoid:** Incompatible materials. Dust generation.
- Incompatible materials:** Strong oxidizing agents. Strong reducing agents. Strong bases.
- Hazardous decomposition products:** Carbon monoxide. Carbon dioxide.

SECTION 11 : Toxicological information
Acute Toxicity:

Adipic Acid,

Oral:	124-04-9	LD50 Oral - Rat - male and female - 5,560 mg/kg
Inhalation:	124-04-9	LC0 Inhalation - Rat - male and female - 4 h - > 7.7 mg/l
Dermal:	124-04-9	LD0 Dermal - Rabbit - male and female - 7,940 mg/kg
Chronic Toxicity: No additional information.		
Corrosion Irritation:		
Dermal:	124-04-9	Skin - Rabbit Result: Mild skin irritation - 24 h
Ocular:	124-04-9	Eyes - Rabbit Result: Risk of serious damage to eyes. - 24 h
Sensitization:		No additional information.
Single Target Organ (STOT):		No additional information.
Numerical Measures:		No additional information.
Carcinogenicity:		No additional information.
Mutagenicity:		No additional information.
Reproductive Toxicity:		No additional information.

SECTION 12 : Ecological information
Ecotoxicity

Toxicity to fish static test LC0 - Brachydanio rerio (zebrafish) - \geq 1,000 mg/l - 96 h: 124-04-9

Toxicity to daphnia and other aquatic invertebrates Immobilization LC50 - Daphnia magna (Water flea) - 46 mg/l - 48 h: 124-04-9

Toxicity to algae static test EC50 - Pseudokirchneriella subcapitata (aglae) - 59 mg/l - 72 h: 124-04-9

Toxicity to bacteria Respiration inhibition EC50 - Sludge Treatment - 7,910 mg/l - 3 h: 124-04-9

Fish: Bluegill/Sunfish: LC50 = 97-330 mg/L; 24-96 Hr: 124-04-9

Persistence and degradability: 124-04-9: Biodegradability aerobic - Exposure time 30 d Result: 83 % - Readily biodegradable

Bioaccumulative potential:

Mobility in soil:

Other adverse effects:

SECTION 13 : Disposal considerations
Waste disposal recommendations:

Contact a licensed professional waste disposal service to dispose of this material. Dispose of empty containers as unused product. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification. Dilute with water and flush to sewer.

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SECTION 14 : Transport information

UN-Number

3077

UN proper shipping name

Environmentally hazardous substance, solid, n.o.s. (Adipic acid)

Transport hazard class(es)



Class:

9 Miscellaneous dangerous substances and articles

Packing group:III

Environmental hazard:

Transport in bulk:

Special precautions for user:

SECTION 15 : Regulatory information

United States (USA)

SARA Section 311/312 (Specific toxic chemical listings):

Acute

SARA Section 313 (Specific toxic chemical listings):

None of the ingredients is listed

RCRA (hazardous waste code):

None of the ingredients is listed

TSCA (Toxic Substances Control Act):

All ingredients are listed.

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

124-04-9 Adipic Acid 5000 lbs

Proposition 65 (California):

Chemicals known to cause cancer:

None of the ingredients is listed

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed

Chemicals known to cause developmental toxicity:

None of the ingredients is listed

Canada

Canadian Domestic Substances List (DSL):

All ingredients are listed.

Canadian NPRI Ingredient Disclosure list (limit 0.1%):

None of the ingredients is listed

Canadian NPRI Ingredient Disclosure list (limit 1%):

124-04-9 Adipic Acid

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END OF MSDS