

SAFETY DATA SHEET

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ADIPIC ACID

SECTION 1: Identification of the substance/mixture and of the company/undertaking Trade name:

1.1 Product identifier:	
CAS Number:	124-04-09
EC number:	204-673-3
1.2 SYNONYMS	• Hexanedioic acid • 1,6-Hexanedioic acid • 1,6-Dicarboxyhexane • Butanedioic acid, 2,3-dihydro- • 1,6-Dicarboxycyclohexane

SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:	Classification according to Regulation (EC) No 1272/2008 The substance is classified according to the CLP regulation.
2.2 Label elements:	Labelling according to Regulation (EC) No 1272/2008
Hazard Pictograms:	
Signal Word:	Danger
Hazard statements:	H319: Causes serious eye irritation. H315: Causes skin irritation. H413: May cause long-lasting harmful effects to aquatic life
Precautionary Statements:	P264: Wash hands thoroughly after handling. P280: Wear protective gloves/eye protection/face protection. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes.
2.3 Other hazards:	
Inhalation:	May cause irritation to the respiratory tract, leading to coughing throat irritation.

Ingestion:	can lead to symptoms such as nausea, vomiting, abdominal pain, and diarrhea.
Skin Contact:	repeated skin contact can cause irritation, leading to symptoms such as redness, itching, and dryness.
Eye contact:	May cause irritation, redness, pain and burning sensation.
Chronic Exposure:	chronic inhalation can lead to respiratory irritation and may cause conditions like chronic bronchitis or asthma-like symptoms in sensitive individuals
Aggravation of pre-existing conditions	Individuals with asthma, chronic bronchitis, or other pulmonary disorders may experience worsened symptoms, such as increased wheezing, coughing, or shortness of breath when exposed

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 124-04-09 ADIPIC ACID
Identification number(s):	EC number: 204-673-3

SECTION 4: First aid measures

4.1 Description of first aid measures	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician
General information:	
After inhalation:	

After skin contact:	Take off contaminated clothes, flush with plenty of running water. Consult a physician.
After eye contact:	Lift eyelid, flush with running water or physiological saline. consult a physician.
After swallowing:	Drink enough lukewarm water, and provoke vomit. Consult a physician.
4.2 Most important symptoms and effects, both acute and delayed	Acute symptoms include eye and skin irritation, respiratory discomfort. If delayed effects may involve chronic respiratory issues and dermatitis from prolonged exposure.
4.3 Indication of any immediate medical attention and special treatment needed	Immediate medical attention is needed when exposed.

SECTION 5: Firefighting measures

5.1 Extinguishing media	Use water spray, dry chemical or carbon dioxide.
5.2 Special hazards arising from the substance or mixture	include the potential release of toxic gases (carbon monoxide, carbon dioxide, nitrogen oxides) upon combustion, irritating dust or vapors, and the risk of environmental damage due to its acidic nature.
5.3 Advice for firefighters	Wear fully protective suit, safety glasses and respiratory device .
5.4 further information	No data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations.
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6.2 Environmental precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
6.3 Methods and material for containment and cleaning up:	Use non-combustible absorbents like sand, vermiculite, or diatomaceous earth to absorb small quantities of spilled adipic acid, then dispose of the absorbent in an approved waste container. according to local regulations

SECTION 7: Handling and storage

7.1 Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking.
7.2 Conditions for safe storage, including any incompatibilities	Dedicated tank and keep cool ventilate far way from fire heat and sunlight. keep temp below 40C with several extinguish facilities. Do not keep it with oxidant or acidity substance or relevant hazards
Requirements to be met by storerooms and receptacles:	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
7.3 Specific end uses	Store it separately with oxidant, reductant and bases.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters	
Additional information about design of technical facilities:	A system of local and general exhaust is recommended
8.2 Exposure controls	
Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment:	Dust respirator, protective masks, wearing anti chemical gloves, rubber gloves, etc.
General protective and hygienic measures:	Eyes, body and hand protection, maintain indoor air unobstructed. Wear protective equipment.
	Respiratory protection: Required.
Protection of hands:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands
	Eye protection: Required
Protection of Body:	Complete suit protecting against chemicals, Flame retardant antistatic protective clothing.
Other protection:	Smoking is forbidden in workplaces. Attention should be paid to personal hygiene

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties	
General Information	
Appearance: Form:	Solid powder
Colour:	White
Odour:	Slightly pungent, sour
pH-value:	6.9-7.0
Melting point/Melting range:	153°C
Boiling point/Boiling range:	330°C
Flammability (solid, gaseous):	non-flammable
Ignition temperature:	500°C (approx.)
Decomposition temperature:	220°C (approx.)
Self-igniting:	Not determined
Flash point:	200°C

Danger of explosion:	Low when open.
Explosion limits: Lower:	Not determined
Explosion limits: Upper:	Not determined
Vapour pressure:	1×10^{-6} mmHg. At 25°C
Density at 20 °C:	1.36 g/cm ³ .
Relative density:	1.36 g/cm ³ .
Vapour density:	Not determined
Evaporation rate:	Not determined
Solubility in / Miscibility with-water at 20 °C:	Completely soluble
Partition coefficient:(n-octanol/water)	0.72
Viscosity:	Not determined

SECTION 10: Stability and reactivity

10.1 Reactivity	No data available
10.2 Chemical stability	No data available
10.3 Possibility of hazardous reactions	Forbidden to mix with: Alkali, oxidant and reductant
10.4 Conditions to avoid	No data available
10.5 Incompatible materials:	No data available
10.6 Hazardous decomposition products	No data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	No data available
Skin corrosion/Irritation:	No data available
Serious eye damage/irritation:	No data available
Respiratory damage/irritation:	No data available
Ingestion:	No data available
Germ cell mutagenicity:	no data available
Carcinogenicity:	No data available
Reproductive toxicity:	no data available
Specific target organ toxicity - single exposure:	No data available

Specific target organ toxicity - repeated exposure:	No data available
Aspiration hazard:	No data available
Signs and Symptoms of Exposure:	Always have on hand on first-aid kit, together with proper instructions
11.2 Additional toxicological information	
Aquatic Toxicity:	It can still pose risks to aquatic organisms in relatively low concentrations or with prolonged exposure
Biodegradability:	Readily biodegradable

SECTION 12: Ecological information

12.1 Toxicity Aquatic toxicity:	It can still pose risks to aquatic organisms in relatively low concentrations or with prolonged exposure
12.2 Persistence and degradability:	No data available
12.3 Bioaccumulative potential:	No data available
12.4 Mobility in soil:	No data available
12.5 Other adverse effects	No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Uncleaned packaging: Recommendation:	Should be thoroughly cleaned, neutralized if necessary and disposed of or recycled according to local environmental and safety regulations to prevent contamination.
Recommended cleansing agents:	Water, sodium bicarbonate, dilute sodium hydroxide or lime, mild detergent solutions, isopropyl alcohol.

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN, IMDG, IATA:	No data available
14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:	No data available
14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :	No data available
14.4 Packing group · ADR, IMDG, IATA:	No data available
14.5 Environmental hazards:	No data available
14.6 Special precautions for user	No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU	Directive 2012/18/EU, under that this substance is classified under flammable or health hazard
Named dangerous substances	ANNEX I Part 2 Substance is listed
15.2 Chemical safety assessment:	Chemical assessment has not been carried out

SECTION 16: Other information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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