

## 1. Product and Company Identification

www.rxmarine.com

Product Name Adipic Acid  
Part Number RXSOL-19-3072-025

### Company Details:

**RX MARINE INTERNATIONAL**  
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Website [www.rxmarine.com](http://www.rxmarine.com)

## 2. Composition / Information on ingredients

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Name of Substance	Cas Number	EC Number
Adipic Acid	124-04-9	204-673-3

## 3. Hazards Identification

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Classification according to Regulation (EC ) No	Eye irritation (Category 2), H319For the full text see section 16.
Signal Word	Warning
Hazard Statements	None
Precautionary statements prevention	None
Precautionary statements response	None

## 4. First Aid Measures

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General Advice	Show this material safety data sheet to the doctor in possession of the container.
Skin Contact	In case of skin contact: Take off immediately all contaminated clothing. Rinse with plenty of water. Wash thoroughly.
Inhalation:	After inhalation: fresh air.
eye contact	After eye contact: rinse out with plenty of water. Contact a physician if irritation persists.
If swallowed	After swallowing: immediately make victim drink water. Do not induce vomiting.
Most important symptoms and effects, both acute and delayed	The most important known symptoms and effects are described in section 11.
Indication of any immediate medical attention and special treatment needed	No data available

## 5. Fire-fighting Measures

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Flammability May be combustible at high temperature.

Flash Point  
Suitable extinguishing media  
Unsuitable extinguishing media  
Special hazards arising from the substance or mixture

Advice for firefighters  
Further information

CLOSED CUP: Higher than 93.3°C (200°F).  
Water Foam Carbon dioxide (CO2) Dry powder  
For this substance/mixture no limitations of extinguishing media.  
Carbon oxides Combustible. Vapors are heavier than air. Do not mix with water. Development of toxic fumes in the event of fire.  
In the event of fire, wear self-contained breathing apparatus.  
Prevent fire extinguishing water from contaminating ground water.

## 6. Accidental Release Measures

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Spillage  
  
Personal Protection  
  
Environmental Precaution  
Methods and materials for containment and cleaning  
Reference to other sections

Oxidizing material. Stop leak if without risk. Avoid contact with skin, clothing, eyes, or water (may cause fire or explosion). Keep substance damp using water spray. Do not enter sewers, basements or confined areas dike if needed. Dispose of properly.  
Advice for non-emergency personnel: Avoid contact with skin, clothing, eyes, or water. Provide adequate ventilation. Evacuate the danger area, or wear self-contained breathing apparatus. Personal protection see section 8.  
Do not let product enter drains.  
Cover drains. Collect, bind, and pump off spills. (See section 10). Take up dry. Dispose of properly. Clean up after spill.  
For disposal see section 13.

## 7. Handling and Storage

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Handling  
Conditions for safe storage, including any incompatibilities  
Specific end use(s)

For precautions see section 2.2.  
No data available  
Apart from the uses mentioned in section 1.2 no other uses are known.

## 8. Exposure controls and personal protection

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Engineering Control  
  
Personal Protection  
  
Other Protection Measure  
Exposure Limit

Use process enclosures, local exhaust ventilation or other engineering controls to keep exposure below recommended exposure limits. If user operates in confined spaces, keep exposure to airborne contaminants below the recommended exposure limits.  
Eye/face Protection: Wear appropriate protective eyewear or face shield conforming to OSHA's eye and face protection regulations in 29 CFR 1910.133.  
Skin and body protection: Wear appropriate protective clothing to prevent exposure. Respiratory Protection : Follow the OSHA respiratory protection regulations in 29 CFR 1910.134. Use a NIOSH/MSHA approved respirator if European Standard EN 149. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or if irritation or other effects are experienced.  
Handle in accordance with good industrial hygiene practices.  
Not Available



Gloves Suit

## 9. Physical and chemical properties

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Form	Crystalline
Colour	White
Odour	Odourless
Odor Threshold	No data available
pH	2,7 at 23 g/l at 25 °C
Melting Point	Melting point/range: 151 - 154 °C
Boiling Point	265 °C at 133 hPa .
Flash Point	196 °C - closed cup
Evaporation Rate	No data available
Flammability (solid, gas)	May form combustible dust concentrations in air.
Explosive limits	No Data Available
Vapour pressure	0,097 hPa at 18,5 °C
Vapour Density	5,04
Specific Gravity	1,98 g/cm3 at 20 °C
Partition coefficient	log Pow: 0,081 at 25 °C - Bioaccumulation is not exp
Explosive properties	No data available
Solubility	Soluble in water 620 g/l at 20 °C
Ignition temperature	No information available.

## 10. Stability and reactivity

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Reactivity	Forms explosive mixtures with air on intense heat. The point is to be rated as critical. The following are explosive mixtures: in correspondingly fine distribution, when finely dispersed, assumed.
Stability	The product is chemically stable under standard conditions.
Possibility of hazardous reactions	No data available
Conditions to avoid	Strong heating.
Incompatible materials	Strong oxidizing agents
Hazardous Polymerization	In the event of fire: see section 5

## 11. Toxicological information

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Rout Of Entry	Inhalation. Ingestion.
Toxicity to Animal	WARNING: THE LC50 VALUES HEREUNDER ARE FOR THE FINEST DISPERSION (LD50): 689 mg/kg [Rat].
Toxic Effects on Human	May cause damage to the following organs: upper respiratory tract. Hazardous in case of skin contact (irritant, sensitizer). Acute Potential Health Effects: Skin: Causes skin irritation, which becomes evident upon re-exposure. Causes gastrointestinal (digestive) tract irritation when swallowed. Inhalation: Causes respiratory tract irritation, edema, inflammation, edema of bronchi and larynx. Prolonged skin exposure may cause allergic reactions. Exposure by inhalation may affect respiration and may be fatal.
Special Remarks on other Toxic Effects on Humans:	
Acute toxicity	LD50 Oral - Rat - male and female - 5.560 mg/kg LD50 Inhalation - Rat - male and female - 4 h - > 7,7 mg/l (OECD Test Guideline 403) 7.940 mg/kg Remarks: (ECHA)

Skin corrosion/irritation  
Serious eye damage/eye irritation  
Respiratory or skin sensitization  
Germ cell mutagenicity  
  
Carcinogenicity  
  
Reproductive toxicity  
Specific target organ toxicity single exposure  
Specific target organ toxicity repeated exposure  
Aspiration hazard  
Additional Information

Skin - Rabbit Result: slight irritation (OECD Test C  
Eyes - Rabbit Result: Irritating to eyes. - 24 h (OECD  
Maximization Test - Guinea pig Result: Does not ca  
Ames test S. typhimurium Result: negative Chr  
negative In vitro mammalian cell gene mutation tes  
IARC: No ingredient of this product present at  
probable, possible or confirmed human carcinogen  
No data available  
No data available  
No data available  
No data available  
RTECS: AU8400000

## 12. Ecological information

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Eco Toxicity  
  
Persistence and degradability  
  
COD and BOD 5  
Products Biodegradation:  
Mobility in soil  
Results of PBT and vPvB assessment  
  
Other adverse effects

Toxicity to fish LC50 - Pimephales promelas (fa  
Database) Toxicity to daphnia and other aquatic in  
mg/l - 48 h (OECD Test Guideline 202) Toxic  
subcapitata (green algae) - 59 mg/l - 72 h (OECD  
EC50 - activated sludge - 4.747 mg/l - 3 h (OECD  
Biodegradability aerobic - Exposure time 30 d  
Guideline 301D) Theoretical oxygen demand 1.42  
Remarks: (Lit.)  
Not Available  
The methods for determining the biological degrad  
No data available  
This substance/mixture contains no components co  
toxic (PBT), or very persistent and very bioaccumu  
No data available

## 13. Disposal considerations

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Waste treatment Method

See [www.retrologistik.com](http://www.retrologistik.com) for processes regarding  
there if you have further questions.

## 14. Transport information

[www.rxmarine.com](http://www.rxmarine.com)

UN Number  
Proper shipping name  
Hazard Class  
Packing group  
Environmental hazards  
Special precautions for user

ADR/RID: - IMDG: - IATA: -  
ADR/RID: Not dangerous goods IMDG: Not dange  
ADR/RID: - IMDG: - IATA: -  
ADR/RID: - IMDG: - IATA: -TDG  
ADR/RID: no IMDG Marine pollutant: no IATA: n  
ions for user N

## 15. Regulatory information

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Federal and State Regulation  
  
Other Regulation

Connecticut hazardous material survey.: Ammoniu  
8(b) inventory: Ammonium persulfate  
Take note of Dir 94/33/EC on the protection of yo

WHMIS (Canada)

DSCL (EEC)

Safety, health and environmental regulations/legislation specific for the substance or mixture

National legislation

Chemical Safety Assessment

CLASS C: Oxidizing material.

R8- Contact with combustible material may cause fire or explosion. R36/37/38- Irritating to eyes, respiratory system and skin contact. S22- Do not breathe dust. S24- Avoid contact with skin. S25- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

This material safety data sheet complies with the requirements of the REACH - Restrictions on the manufacture, placing on the market and use of certain preparations and articles (Annex XVII) : Not applicable.

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on severe accident hazards involving dangerous substances. : Not applicable.

For this product a chemical safety assessment was not required.

## 16. Other information

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Other Information

The information above is believed to be accurate and complete as far as it is available to us. However, we make no warranty, expressed or implied, with respect to such information, and we do not accept any liability. You should make their own investigations to determine the suitability of the information for their purposes. In no event shall we be liable for any claims, damages, losses, or any special, indirect, incidental, consequential or punitive damages, even if we have been advised of the possibility of such damages.

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