According to Canadian Hazardous Products Regulations and WHMIS 2015

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# **Adipic Acid**

### **SECTION 1: Identification**

**Product identifier** 

Product name: Adipic Acid Product code: \$25124

#### Recommended use of the product and restriction on use

**Relevant identified uses:** Not determined or not applicable. **Uses advised against:** Not determined or not applicable.

**Reasons why uses advised against:** Not determined or not applicable.

#### Manufacturer or supplier details

Manufacturer: Supplier:

AquaPhoenix Scientific Fisher Science Education 860 Gitts Run Road 6771 Silver Crest Road

Hanover Nazareth
PA 17331 PA 18064
(717) 632-1291 800 955-1177

#### **Emergency telephone number:**

**United States** 

Emergency Telephone No.: 800-255-3924

### **SECTION 2: Hazard identification**

#### **GHS** classification:

Eye irritation, category 2A

#### **Label elements**

#### Hazard pictograms:



Signal word: Warning

#### **Hazard statements:**

H319 Causes serious eye irritation

#### **Precautionary statements:**

P264 Wash skin thoroughly after handling

P280 Wear protective gloves/protective clothing/eye protection/face protection

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing

Hazards not otherwise classified: None

# SECTION 3: Composition/information on ingredients

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# **Adipic Acid**

Identification	Name	Weight %
CAS number: 124-04-9	Adipic Acid	100

Additional Information: None

### **SECTION 4: First-aid measures**

#### **Description of first-aid measures**

#### **General notes:**

Not determined or not available.

#### After inhalation:

Loosen clothing as necessary and position individual in a comfortable position

Maintain an unobstructed airway

Get medical advice/attention if you feel unwell

#### After skin contact:

Rinse affected area with soap and water

If symptoms develop or persist, seek medical attention

### After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes

If symptoms develop or persist, seek medical attention

Remove contact lens(es) if able to do so during rinsing

Seek medical attention if irritation persists or if concerned

#### After ingestion:

Rinse mouth thoroughly

Seek medical attention if irritation, discomfort, or vomiting persists

#### Most important symptoms and effects, both acute and delayed

### Acute symptoms and effects:

Not determined or not available.

#### **Delayed symptoms and effects:**

Not determined or not available.

# Immediate medical attention and special treatment

### **Specific treatment:**

Not determined or not available.

#### Notes for the doctor:

Not determined or not available.

### **SECTION 5: Fire-fighting measures**

# **Extinguishing media**

#### Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

#### **Unsuitable extinguishing media:**

Not determined or not applicable.

#### Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

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### **Adipic Acid**

May form corrosive mixtures with water

### **Special protective equipment for firefighters:**

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

### Special precautions:

Not determined or not applicable.

#### **SECTION 6: Accidental release measures**

#### Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation

Ensure air handling systems are operational

Wear protective eye wear, gloves and clothing

#### **Environmental precautions:**

Should not be released into the environment

Prevent from reaching drains, sewer or waterway

### Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing

Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders)

Dispose of contents / container in accordance with local regulations

#### Reference to other sections:

Not determined or not applicable.

#### **SECTION 7: Handling and storage**

#### Precautions for safe handling:

Use only with adequate ventilation.

Avoid breathing mist or vapor.

Do not eat, drink, smoke or use personal products when handling chemical substances.

### Conditions for safe storage, including any incompatibilities:

Keep container tightly sealed.

Protect from freezing and physical damage.

Store in a cool, well-ventilated area.

Store in corrosive resistant container with a resistant inner lining.

#### SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

#### Occupational Exposure limit values:

occupational Exposure initie valuesi			
Country (Legal Basis)	Substance	Identifier	Permissible concentration
ACGIH	Adipic Acid	124-04-9	ACGIH TLV TWA 5 mg/m <sup>3</sup>

#### **Biological limit values:**

No biological exposure limits noted for the ingredient(s).

#### Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls.

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### **Adipic Acid**

Biological monitoring may also be appropriate for some substances.

### 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.

#### Personal protection equipment

#### Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

### Skin and body protection:

Select glove material impermeable and resistant to the substance.

Wear appropriate clothing to prevent any possibility of skin contact.

### **Respiratory protection:**

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

# General hygienic measures:

Avoid contact with skin, eyes and clothing.

Wash hands before breaks and at the end of work.

Wash contaminated clothing before reuse.

#### **SECTION 9: Physical and chemical properties**

#### Information on basic physical and chemical properties

Appearance (physical state, color):	White powder
Odor:	Odorless
Odor threshold:	No information available.
pH-value:	3.2 (0.1% solution)
Melting/Freezing point:	152°C
Boiling point/range:	337.5°C at 760 mmHg
Flash point:	196°C
Evaporation rate:	No information available.
Flammability (solid, gaseous):	No information available.
Explosion limit upper:	No information available.
Explosion limit lower:	No information available.
Vapor pressure:	0.073 mm Hg at 18.5°C
Vapor density:	5.04 (air=1)
Density:	No information available.
Relative density:	1.360 g/cm3 at 20°C
Solubilities:	2.0 g/100g at 25°C
Partition coefficient (n-octanol/water):	No information available.
Auto/Self-ignition temperature:	400 °C
Decomposition temperature:	No information available.
Dynamic viscosity:	No information available.

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### **Adipic Acid**

Kinematic viscosity:	No information available.
Explosive properties	No information available.
Oxidizing properties	No information available.

#### Other information

Molecular Weight	146.14

# SECTION 10: Stability and reactivity

### Reactivity:

Does not react under normal conditions of use and storage.

### **Chemical stability:**

Stable under normal conditions of use and storage.

### Possibility of hazardous reactions:

None under normal conditions of use and storage.

#### Conditions to avoid:

Dust generation. Aqueous solutions are very midly corrosive to most metals.

#### **Incompatible materials:**

Strong oxidizing agents, strong reducing agents, strong bases.

### **Hazardous decomposition products:**

Oxides of carbon.

### **SECTION 11: Toxicological information**

### **Acute toxicity**

**Assessment:** Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

# Skin corrosion/irritation

**Assessment:** Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

# Serious eye damage/irritation

Assessment: Causes serious eye irritation

Product data: No data available.

Substance data:

Name	Result
Adipic Acid	Result: Irritating (Rabbit)

#### Respiratory or skin sensitization

Assessment: Based on available data, the classification criteria are not met.

**Product data:** No data available. **Substance data:** No data available.

#### Carcinogenicity

**Assessment:** Based on available data, the classification criteria are not met.

Product data: No data available.

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# **Adipic Acid**

Substance data: No data available.

**International Agency for Research on Cancer (IARC):** None of the ingredients are listed.

**National Toxicology Program (NTP):** None of the ingredients are listed.

#### Germ cell mutagenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available. **Substance data:** No data available.

### Reproductive toxicity

Assessment: Based on available data, the classification criteria are not met.

**Product data:** No data available. **Substance data:** No data available.

### Specific target organ toxicity (single exposure)

Assessment: Based on available data, the classification criteria are not met.

**Product data:** No data available. **Substance data:** No data available.

# Specific target organ toxicity (repeated exposure)

Assessment: Based on available data, the classification criteria are not met.

**Product data:** No data available. **Substance data:** No data available.

### **Aspiration toxicity**

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

**Information on likely routes of exposure:** No data available.

Symptoms related to the physical, chemical and toxicological characteristics: No data available.

Other information: No data available.

# **SECTION 12: Ecological information**

#### Acute (short-term) toxicity

**Assessment:** Based on available data, the classification criteria are not met.

#### **Product data:**

Fish	Fish: Bluegill/Sunfish: LC50 = 97-330 mg/L; 24-96 Hr.; S	
	18-22 degrees C The Koc of adipic acid is estimated as	
	using a measured log Kow of 0.08 and a regression-deri	
	According to a recommended classification scheme, this	
	value suggests that adipic acid is expected to have very	high mobility in
	soil.	

Substance data: No data available.

# Chronic (long-term) toxicity

**Product data:** No data available. **Substance data:** No data available.

### Persistence and degradability

### **Product data:**

Readily biodegradable.

Substance data: No data available.

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# **Adipic Acid**

### **Bioaccumulative potential**

**Product data:** No data available. **Substance data:** No data available.

Mobility in soil

Product data:

High in soil.

Substance data: No data available.

Other adverse effects: No data available.

### **SECTION 13: Disposal considerations**

# **Disposal methods:**

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities Dilute with water and flush to sewer

# **SECTION 14: Transport information**

# **Canadian Transportation of Dangerous Goods (TDG)**

UN number	UN 3077
<b>UN proper shipping name</b> Environmentally hazardous substances, solid, n.o.s.	
UN transport hazard class(es)	9
Packing group	III
Environmental hazards	Marine Pollutant
Special precautions for user	None

# **International Maritime Dangerous Goods (IMDG)**

UN number	UN 3077
UN proper shipping name	Environmentally hazardous substances, solid, n.o.s. (Adipic acid)
UN transport hazard class(es)	9
Packing group	III
Environmental hazards	Marine Pollutant
Special precautions for user	None

### International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None

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### **Adipic Acid**

Special precautions for user	None

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	
Bulk Name	None
Ship type	None
Pollution category	None

# **SECTION 15: Regulatory information**

### **Canada regulations**

**Domestic substances list (DSL):** 

124-04-9	Adipic Acid	Listed
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Non-domestic substances list (NDSL): Not determined.

### **SECTION 16: Other information**

### Abbreviations and Acronyms: None

#### Disclaimer:

This product has been classified in accordance with the Canadian Hazardous Products Regulations and WHMIS 2015. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

**NFPA:** 1-1-0 **HMIS:** 1-1-0

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**End of Safety Data Sheet**