

# TCI AMERICA SAFETY DATA SHEET

Revision number: 1 Revision date: 07/06/2018

# 1. IDENTIFICATION

Product name: Adipic Acid Product code: A0161

Product use:For laboratory research purposes.Restrictions on use:Not for drug or household use.

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TCI America (8:00am - 5:00pm) PST

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Transportation Emergencies:

Chemtrec 24-Hour

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Responsible department:

TCI America

Environmental Health Safety and Security

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# 2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: Eye Damage/Irritation [Category 2A]

WHMIS 2015: Specific Target Organ Tox

Specific Target Organ Toxicity (Single Exposure) [Category 3] Specific Target Organ Toxicity (Repeated Exposure) [Category 1]

Aquatic Hazard (Acute) [Category 3]

Signal word: Danger!

Hazard Statement(s): Causes serious eye irritation

Harmful to aquatic life

May cause respiratory irritation.

Causes damage to organs through prolonged or repeated exposure: Autonomic Nervous System

Pictogram(s) or Symbol(s):



Precautionary Statement(s):

[Response]

[Storage]

[Disposal]

[Prevention] Do not breathe dust, fume, mist, vapors or spray. Use only outdoors or in a well-ventilated area. Avoid

release to the environment. Do not eat, drink or smoke when using this product. Wash hands and face

thoroughly after handling. Wear eye protection.

If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention. Get medical advice or attention if you feel unwell.

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40

CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).

Hazards not otherwise classified:

[HNOC]

Causes mild skin irritation. May be harmful if inhaled.

Adipic Acid TCI AMERICA Page 2 of 5

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: 1,4-Butanedicarboxylic Acid , Hexanedioic Acid

# 4. FIRST-AID MEASURES

Description of first aid measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON

CENTER or doctor/physician if you feel unwell.

Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If

skin irritation or rash occurs: Get medical advice/attention.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion: Get medical advice/attention if you feel unwell. Rinse mouth.

Symptoms/effects:

Acute: Redness.

**Delayed:** May have effects on the respiratory tract.

#### Indication of any immediate medical attention:

Not available.

Notes to physician: No data available

#### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Dry chemical, foam, water spray, carbon dioxide.

Hazardous combustion products:

These products include: Carbon oxides

Other specific hazards:

Closed containers may explode from heat of a fire.

Advice for firefighters: Wear self-contained breathing apparatus if possible.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Environmental precautions:

Methods and materials for containment

and cleaning up:

Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

Prevent product from entering drains.

Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

#### 7. HANDLING AND STORAGE

Precautions for safe handling: Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent

dispersion of dust. Wash hands and face thoroughly after handling.

Use a closed system if possible. Use a local exhaust if dust or aerosol will be generated.

Avoid contact with skin, eyes and clothing.

Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container tightly closed. Store in a cool, dark and well-ventilated place.

Store locked up.

Store away from incompatible materials such as oxidizing agents.

Packaging material: Comply with laws.

Adipic Acid TCI AMERICA Page 3 of 5

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure limits:** 

ACGIH TLV(TWA): 5 mg/m<sup>3</sup>

Appropriate engineering controls: Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed

system or local exhaust. Also install safety shower and eye bath.

Personal protective equipment

Respiratory protection: Dust respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators

approved under appropriate government standards and follow local and national regulations.

Hand protection: Impervious gloves.

**Eye protection:** Safety goggles. A face-shield, if the situation requires.

**Skin and body protection:** Impervious protective clothing. Protective boots, if the situation requires.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Solid

Form: Crystal - Powder
Colour: White - Almost white
Odour: Odorless
Odor threshold: No data available

Odor threshold: No data available
No data available

Melting point/freezing point:153°C (307°F)pH:No data availableBoiling point/range:No data availableVapour pressure:No data available

**Decomposition temperature:** No data available **Vapour density:** 5.04

Relative density: No data available Dynamic Viscosity: No data available

Kinematic viscosity: No data available
Log Pow: No data available

Log Pow:No data availableEvaporation rate(ButylNo data available

Acetate=1):

Flash point: No data available Autoignition temperature: 420°C (788°F)

Flammability(solid, gas): No data available Flammability or explosive limits:

Lower: 1.6%

**Upper:** No data available

Solubility(ies):

[Water] Slightly soluble (2.2g/100mL, 20°C)

[Other solvents]

Very soluble: Alcohols Soluble: Acetone

# 10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical stability: Stable under proper conditions.

Possibility of hazardous reactions: No special reactivity has been reported. Incompatible materials: Oxidizing agents, Bases, Reducing agents

Hazardous decomposition products: Carbon dioxide, Carbon monoxide

Adipic Acid TCI AMERICA Page 4 of 5

#### 11. TOXICOLOGICAL INFORMATION

RTECS Number: AU8400000

Acute Toxicity:

ipr-rat LD50:275 mg/kg ivn-mus Ld50:680 mg/kg orl-mus LD50:1900 mg/kg orl-rat LD50:>11 g/kg

Skin corrosion/irritation:

No data available

Serious eye damage/irritation:

eye-rbt 20 mg/24H MOD

Respiratory or skin sensitization:

No data available

Germ cell mutagenicity:

No data available

Carcinogenicity: No data available

IARC: No data available NTP: No data available OSHA: No data available

Reproductive toxicity:

No data available

Target organ(s):

May cause respiratory irritation.

Causes damage to organs through prolonged or repeated exposure: Autonomic Nervous System

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** 

Fish: 96h LC50:>100 mg/L (Oryzias latipes)
Crustacea: 48h EC50:46 mg/L (Daphnia magna)

Algae: 72h EC50:52 mg/L (Selenastrum capricornutum)

Persistence / degradability: 68 - 90% (by BOD)

Bioaccumulative potential(BCF): 0.68

Mobility in soil

Log Pow: 0.08 Soil adsorption (Koc): 26

Henry's Law (PaM ³/mol): No data available

# 13. DISPOSAL CONSIDERATIONS

Disposal of product: Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and

Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for

Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not

be allowed to enter the environment, drains, water ways, or the soil.

Disposal of container:

Dispose of as unused product. Do not re-use empty containers.

Other considerations: Observe all federal, state and local regulations when disposing of the substance.

# 14. TRANSPORT INFORMATION

**DOT (US)** Non-hazardous for transportation.

**IATA** Non-hazardous for transportation.

**IMDG** Non-hazardous for transportation.

Adipic Acid TCI AMERICA Page 5 of 5

#### 15. REGULATORY INFORMATION

# **Toxic Substance Control Act (TSCA 8b.):**

This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

#### **US Federal Regulations**

**CERCLA Hazardous substance and Reportable Quantity:** 

SARA 313: Not Listed SARA 302: Not Listed

State Regulations

State Right-to-Know

Massachusetts
New Jersey
Pennsylvania
California Proposition 65:
Listed
Listed
Not Listed

Other Information

NFPA Rating: HMIS Classification:

Health:2Health:2Flammability:1Flammability:1Instability:0Physical:0

**International Inventories** 

**Canada: DSL** On DSL **EC-No:** 204-673-3

# 16. OTHER INFORMATION

Revision date: 07/06/2018 Revision number: 1

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.