

SAFETY DATA SHEET



Colonial Chemical Solutions, Inc.

SECTION 1 - COMPANY AND PRODUCT IDENTIFICATION

PRODUCT

Product Name: ADIPIC ACID
Control Number: 00031
Product Description: Organic Acid

COMPANY IDENTIFICATION

Supplier: COLONIAL CHEMICAL SOLUTIONS, INC.
916 West Lathrop Avenue
Savannah, Georgia 31415

24 Hour Emergency Telephone: (800)-424-9300 CHEMTREC
General Information: (912) 236-1331

SECTION 2- HAZARDS IDENTIFICATION

GHS Classification:

[Health]

Serious Eye Damage, Category 1

[Environmental]

Acute Aquatic Toxicity Category 3

[Physical]

Corrosive

GHS Label elements, including precautionary statements

Pictograms



Signal Word: Danger

Hazard statement(s)

H318 Causes serious eye damage.
H402 Harmful to aquatic life.

Precautionary statement(s)

P273 Avoid release to the environment.
P280 Wear protective gloves/ 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.
P310 Immediately call a POISON CENTER or doctor/ physician.
P403+223: Store in a well ventilated place. Store in a tightly closed container.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS Number	%WT
Adipic Acid	124-04-9	90-100

SECTION 4 - FIRST AID MEASURES

FIRST AID PROCEDURES:

Eyes: Flush with large amounts of cool running water for at least 15 minutes. Get immediate medical attention.

Skin: Flush affected are with copious amounts of water. Remove contaminated clothing. Wash skin with soap and water. Get medical attention if irritation develops and persists.

Inhalation: For excessive inhalation remove to fresh air. If breathing is difficult seek medical attention.

Ingestion: Not a likely route of entry! DO NOT induce vomiting. Drink 1-3 large glasses of water to dilute stomach Contents. Seek immediate medical attention.

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SECTION 5 · FIRE FIGHTING MEASURES

Suitable Extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Hazardous combustion products: Oxides of carbon and various hydrocarbons

Fire Fighting Procedures: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Unusual Fire and Explosion Hazards: Material a crystalline powder and is not considered a fire or explosion hazard.

SECTION 6 · ACCIDENTAL RELEASE and DISPOSAL MEASURES

Spills: Evacuate all non-essential personnel from the spill area. Suitable protective clothing should be worn. Avoid breathing dust. Sweep or shovel up material and collect into suitable container.

Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 7 · STORAGE AND HANDLING

Handling: Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. Do not breathe dust. Keep container closed and tightly sealed when not in use. Use good hygiene practices.

Storage: Store in a cool, dry, ventilated area, away from incompatible substances. Store only in approved properly labeled containers.

SECTION 8 · EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Controls: Provide explosion-proof ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits indicated below.

Exposure Limits: Adipic Acid 5 mg/m³ ACGIH; 5 mg/m³ OSHA

Personal Protective Equipment (PPE):

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.

Skin: If prolonged or repeated skin contact is likely, wear appropriate protective gloves.

Clothing: Selection of protective clothing depends on work conditions, potential exposure conditions and may include gloves, boots, suits and other protective items.

Respirators: Where adequate ventilation is not available an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of OSHA Respiratory Protection Standard, 29 CFR 1920.134. In confined areas, use a self-contained breathing apparatus.

Other Equipment: Eye wash station and shower in close proximity to use are advised.

SECTION 9 · PHYSICAL AND CHEMICAL PROPERTIES

Flash Point: 385 °F

Autoignition Temperature: 752 °F

Boiling Point: 509 °F

Melting Point/Freezing Point: 304-309 °F

Vapor Pressure: 1 mmHg

Vapor Density (Air-1): No available data

Odor/Appearance: White crystalline powder no appreciable odor.

Flammability Limits: Lower: N/A Upper: N/A

Bulk Density: 0.7 g/l

Volatile %: N/A

Evaporation Rate (Water=1): N/A

pH: 2.7 at 23 g/l

Solubility in Water: Soluble

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SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability: Stable under normal use and temperature conditions.

Conditions to Avoid: Keep away from incompatibles and moisture.

Incompatible Materials: Strong oxidizing agents

Hazardous Polymerization: Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Signs and Symptoms of Overexposure:

Skin: May irritate the skin. Prolonged or repeated contact may cause dermatitis.

Eyes: Causes moderate eye irritation. Symptoms of redness and/or pain.

Inhalation: Dust may be irritating to the respiratory tract. May cause coughing and sneezing.

Ingestion: Causes irritation of the mouth and throat. Presumed to be only slightly toxic based on animal studies

Acute oral toxicity:

Adipic Acid: LD50 rat: 5,560 mg/kg

Acute inhalation toxicity:

Adipic Acid: LD50 rat: > 7.7 mg/l 4h

Acute dermal toxicity:

Adipic Acid: LD50 rabbit: 7,940 mg/kg

SECTION 12 - ECOLOGICAL INFORMATION

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

Bio-accumulative potential: Bioaccumulation of this product is not expected to be significant. This product is readily biodegradable.

Mobility: No evidence of product mobility.

SECTION 13 - DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

SECTION 14 - TRANSPORTATION

U.S. DEPARTMENT OF TRANSPORTATION (Road or Rail):

Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s. (Adipic acid)

Hazard Class: 9

UN Number: 3077

Packaging Group: 3

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SECTION 15 · REGULATORY INFORMATION

US FEDERAL REGULATIONS

Comprehensive Environmental Response and Liability Act (CERCLA)

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. The reportable quantity (RQ) for this material is 5000 pounds. If appropriate, immediately report to the National Response Center (800/424-8802) as required by U.S. Federal Law. Also contact appropriate state and local regulatory agencies.

Toxic Substance Control Act (TSCA): All components of this product are listed on the TSCA inventory list.

SARA Section 311/312 (40 CFR 370) Hazard Categories:

Acute Health Hazard

SARA Section 313 (40 CFR 372) Hazard Categories: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Water Act: This product contains no chemicals that are listed under the CWA.

Clean Air Act: This product contains no chemicals that are listed under the CAA.

California Prop 65: This product contains no chemicals known by the State of California to cause cancer, birth defects or other reproductive harm.

SECTION 16 · OTHER INFORMATION

MSDS Revision Date: September 2014

National Fire Protection Association (NFPA) Ratings: This information is intended solely for the use of individuals trained in the NFPA system.

Health: 2

Flammability: 1

Reactivity: 0

The information above is believed to be accurate and represents the best information currently available to us. However, Colonial Chemical Solutions makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Colonial be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Colonial has been advised of the possibility of such damages. The vendor assumes no responsibility for injury or damages resulting from the inappropriate alteration or manipulation of this MSDS and its contents from that originally submitted by Colonial.