

# SAFETY DATA SHEET



Colonial Chemical Solutions, Inc.

## SECTION 1 · PRODUCT IDENTIFICATION

### PRODUCT

**Product Name:** AMINOPROPYLMORPHOLINE (APM)  
**Control Number:** 00260  
**Product Description:** Intermediate

### 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 ]

[ Environmental ]

[ Physical ]

Acute toxicity, Dermal Category 4  
Skin corrosion Category 1B  
Serious eye damage Category 1

### GHS Label elements, including precautionary statements

Pictograms



**Signal Word:** Danger

### Hazard Phrases:

H302 Harmful if swallowed  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.  
H322 Harmful if inhaled

### Precautionary Phrases:

P264 Wash skin thoroughly after handling.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
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.

## SECTION 3 · COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS Number	%Volume
4-(3-Aminopropyl)morpholine	123-00-2	60-100

# SAFETY DATA SHEET



Colonial Chemical Solutions, Inc.

## SECTION 4 - FIRST AID MEASURES

### FIRST AID PROCEDURES:

**Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. Seek immediate medical attention/advice.

**Skin contact:** Take off all contaminated clothing. Wash contact area with soap and water. Seek immediate medical attention/advice.

**Eye contact:** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical attention/advice.

**Ingestion:** Do not induce vomiting. Immediately rinse mouth and drink plenty of water. Never give anything by mouth to an unconscious person. Seek immediate medical attention/advice.

## 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 nitrogen.

**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:** Containers can build up pressure if exposed to heat and/or fire. Use water spray to keep fire-exposed containers cool. Containers may rupture in the heat of a fire.

## SECTION 6 - ACCIDENTAL RELEASE and DISPOSAL MEASURES

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

**Large Spills:** Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb spill with inert material, then place in a chemical waste container. Following product recovery, flush area with water.

**Small Spills:** Absorb spill with vermiculite or other inert material. Clean surface thoroughly to remove residual contamination.

## SECTION 7 - STORAGE AND HANDLING

**Precautions:** Store in a cool, dry, ventilated area, away from incompatible substances. Store only in approved properly labeled containers. Keep container closed and tightly sealed when not in use. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Do not breathe mist or vapor. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

## SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Engineering Controls:** Provide ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits indicated below. The level of protection and types of controls will vary depending upon potential exposure conditions.

**Exposure Limits:** Aminopropylmorpholine 2 mg/kg ACGIH 2 mg/kg 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.

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

**Other Equipment:** Adequate local ventilation to control airborne concentrations below the exposure limits. Eye wash station and shower in close proximity to use are advised.

# SAFETY DATA SHEET



Colonial Chemical Solutions, Inc.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

**Flash Point:** 212 °F  
**Autoignition Temperature:** No available data  
**Boiling Point:** 436 °F  
**Melting Point/Freezing Point:** 5 °F  
**Vapor Pressure:** 0.06 mmHg  
**Vapor Density (Air-1):** 5.1  
**Odor/Appearance:** Colorless liquid with ammonia like odor

**Flammability Limits:** No available data  
**Specific Gravity:** 0.99  
**Volatile %:** No available data  
**Evaporation Rate (BuAc=1):** No available data  
**pH:** 12  
**Solubility in Water:** Soluble

## SECTION 10 - STABILITY AND REACTIVITY

**Chemical Stability:** Stable under normal use and temperature conditions.  
**Conditions to Avoid:** Incompatibles.  
**Materials to Avoid:** Strong acids, acid chlorides, acid anhydrides, oxidizing agents, chloroformates.  
**Decomposition Products:** Oxides of carbon and nitrogen.

## SECTION 11 - TOXICOLOGICAL INFORMATION

**Signs and Symptoms of Overexposure:**  
**Ingestion:** Causes digestive tract burns. Harmful if swallowed.  
**Inhalation:** May cause irritation to the respiratory system.  
**Skin contact:** Causes severe skin burns.  
**Eye contact:** Causes severe eye burns. Causes serious eye damage.

**Acute oral toxicity:**  
Aminopropylmorpholine: LD50 rat: 1790 mg/kg  
**Acute inhalation toxicity:**  
Aminopropylmorpholine: LC50 rat: No available data  
**Acute dermal toxicity:**  
Aminopropylmorpholine: LD50 Rabbit: 2298 mg/kg

## SECTION 12 - ECOLOGICAL INFORMATION

**Aquatic Toxicity:** LC50 - Oncorhynchus mykiss (rainbow trout) - 45.4 mg/l - 96 h  
**Bio-accumulative potential:** Possible hazardous degradation products are not likely.  
**Persistence and degradability:** This material is not expected to persist.  
**Mobility:** No Available Data.

## 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:** Amines, liquid, corrosive, n.o.s. (4-morpholinepropanamine)  
**Hazard Class:** 8  
**UN Number:** 2735  
**Packaging Group:** 2

# SAFETY DATA SHEET



Colonial Chemical Solutions, Inc.

## SECTION 15 - REGULATORY INFORMATION

### US FEDERAL REGULATIONS

#### **Comprehensive Environmental Response and Liability Act (CERCLA)**

This material is not subject to any special reporting under the requirements of the Comprehensive Environmental Response, Compensation 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 has not been established.

**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:** None of the chemicals in this product are listed as Hazardous Substances under the CWA

**Clean Air Act:** None of the chemicals in this product are listed as Hazardous Substances 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 Creation Date:** March 2015

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

**Health: 3**

**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.