

# SAFETY DATA SHEET



Colonial Chemical Solutions, Inc.

## SECTION 1 - COMPANY AND PRODUCT IDENTIFICATION

### PRODUCT

**Product Name:** DIMETHYL ETHANOLAMINE

**Control Number:** 00167

**Product Description:** Ethanol Amine

### 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 ]

Acute toxicity, Inhalation Category 3

Acute toxicity, Oral Category 4

Acute toxicity, Dermal Category 4

Skin corrosion Category 1B

Serious eye damage Category 1

#### [ Environmental ]

Acute Aquatic Toxicity Category 3

Chronic aquatic toxicity Category 3

#### [ Physical ]

Flammable liquids Category 3

### GHS Label elements, including precautionary statements

#### Pictograms



**Signal Word:** Danger

#### Hazard statement(s)

H226 Flammable liquid and vapor.

H302 + H312 Harmful if swallowed or in contact with skin

H314 Causes severe skin burns and eye damage.

H331 Toxic if inhaled.

H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statement(s)

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

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.

# SAFETY DATA SHEET



Colonial Chemical Solutions, Inc.

## SECTION 3 · COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS Number	%WT
2-Dimethylethanolamine	108-01-0	100

## SECTION 4 · FIRST AID MEASURES

### FIRST AID PROCEDURES:

**Eye Contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

**Skin Contact:** Wash with soap and water. Get medical attention if symptoms develop.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get immediate medical attention.

**Ingestion:** Do not induce vomiting unless directed to do so by medical personnel.. Never give anything by mouth to an unconscious person. Rinse mouth with water. Get medical attention.

## 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:** Vapors may form an explosive mixture with air. Vapors can travel to a source of ignition and flash back. Containers may explode in the heat of a fire. Flammable liquid and vapor. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas.

## SECTION 6 · ACCIDENTAL RELEASE and DISPOSAL MEASURES

**Spills:** Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Do not flush into a sewer. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation. Do not get water inside containers.

## SECTION 7 · STORAGE AND HANDLING

**Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Ground and bond containers when transferring material. Do not get in eyes, on skin, or on clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Do not ingest or inhale. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. Use only with adequate ventilation. Keep away from heat, sparks and flame.

**Storage:** Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Flammables-area.

# SAFETY DATA SHEET



Colonial Chemical Solutions, Inc.

## 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:** Dimethylaminoethanol Contains no substances with occupational exposure limit values.

### 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:** 102 °F

**Autoignition Temperature:** 455 °F

**Boiling Point:** 273 °F

**Melting Point:** -94 °F

**Vapor Pressure:** 6.12 mmHg

**Vapor Density (Air-1):** 3.1

**Odor/Appearance:** Clear light yellow liquid with slight ammonia odor

**Flammability Limits:** Lower: 1 Upper: 12

**Specific Gravity:** 0.886

**Volatile %:** No available data

**Evaporation Rate (Water=1):** No available data

**pH:** 10.5 - 11.0 at 100 g/l

**Solubility in Water:** soluble

## SECTION 10 - STABILITY AND REACTIVITY

**Chemical Stability:** Stable under normal use and temperature conditions.

**Conditions to Avoid:** Heat, flames and sparks.

**Incompatible materials:** Oxidizing agents, Copper, Zinc, Iron, Do not store near acids.

**Hazardous Polymerization:** Will not occur.

**Hazardous Decomposition Products:** Nitrogen oxides, carbon monoxide, carbon dioxide, nitrogen gas.

## SECTION 11 - TOXICOLOGICAL INFORMATION

### Signs and Symptoms of Overexposure:

**Eye:** Contact with eyes may cause severe irritation, and possible eye burns. Lachrymator (substance which increases the flow of tears).

**Skin:** May cause severe irritation and possible burns. May be harmful if absorbed through the skin.

**Ingestion:** May cause burns to the digestive tract. May be harmful if swallowed.

**Inhalation:** May cause severe irritation of the respiratory tract with sore throat, coughing, shortness of breath and delayed lung edema.

### Acute oral toxicity:

LD50 rat: 2,000 mg/kg

### Acute inhalation toxicity:

LC50 rat: 1641 ppm 4h

### Acute dermal toxicity

LD50 rabbit: 1,214 mg/kg

# SAFETY DATA SHEET



Colonial Chemical Solutions, Inc.

## SECTION 12 - ECOLOGICAL INFORMATION

**Aquatic Toxicity:** Toxicity to fish LC50 - *Leuciscus idus* (Golden orfe) - > 100 - 220 mg/l - 96 h

**Bio-accumulative potential:** Rapidly biodegradable.

**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: 2-Dimethylaminoethanol

Hazard Class: 8 (3)

UN Number: 2051

Packaging Group: 2

## 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 no published data.

**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:

Fire Hazard, Acute Health Hazard, Chronic 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 CCA.

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

# SAFETY DATA SHEET



Colonial Chemical Solutions, Inc.

<b>SECTION 16 · OTHER INFORMATION</b>
---------------------------------------

**MSDS Revision Date:** November 2014

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

**Health:** 3

**Flammability:** 2

**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.