

# SAFETY DATA SHEET



Colonial Chemical Solutions, Inc.

## SECTION 1 · PRODUCT IDENTIFICATION

### PRODUCT

**Product Name:** NITRIC ACID 65% - 70%  
**Control Number:** 0348  
**Product Description:** Strong Mineral 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 in accordance with 29 CFR 1910 (OSHA HCS)

Oxidizing liquids Category 3  
Corrosive to metals Category 1  
Acute toxicity, Inhalation Category 3  
Skin corrosion Category 1A  
Serious eye damage Category 1

### GHS Label elements, including precautionary statements

**Pictograms:**



**Signal Word:** Danger

### Hazard statement(s)

H272 May intensify fire; oxidizer.  
H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.  
H331 Toxic if inhaled.

### Precautionary statement(s)

P210 Keep away from heat.  
P220 Keep/Store away from clothing/ combustible materials.  
P221 Take any precaution to avoid mixing with combustibles.  
P264 Wash skin thoroughly after handling.  
P271 - Use only outdoors or in a well-ventilated area  
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): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.  
P363 Wash contaminated clothing before reuse.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.  
P390 Absorb spillage to prevent material damage.  
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
P501 Dispose of contents/ container to an approved waste disposal facility.

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## SECTION 3 · COMPOSITION / INFORMATION ON INGREDIENTS

| CHEMICAL NAME | CAS Number | %Weight |
|---------------|------------|---------|
| Nitric Acid   | 7697-37-2  | 65-70   |

Contains no impurities or stabilizing additives which themselves are classified and which contribute to the classification of this product.

## SECTION 4 · FIRST AID MEASURES

### FIRST AID PROCEDURES:

**Eyes:** Flush with large amounts of cool running water for at least 15 minutes while lifting the eyelids to irrigate. Seek immediate medical attention.

**Skin:** Remove all contaminated clothing. Wash exposed skin with soap and water. If irritation develops and persists seek medical attention.

**Inhalation:** For excessive inhalation remove to fresh air. Keep at rest and in a position comfortable for breathing. Give oxygen or artificial respiration if necessary. If breathing is difficult seek immediate medical attention.

**Ingestion:** DO NOT induce vomiting. Drink 2 glasses of water to dilute. Seek immediate medical attention.

See Section 11 for **Signs and Symptoms of Exposure**

## SECTION 5 · FIRE FIGHTING MEASURES

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

**Special 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. Use water spray to keep fire-exposed containers cool. Vapors may be heavier than air. Containers may explode when heated.

**Fire and Explosion Hazards:** Not considered a flammable or an explosion hazard.

## SECTION 6 · ACCIDENTAL RELEASE and DISPOSAL MEASURES

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate unnecessary personnel to safe areas. Ventilate the area. Eliminate ignition sources.

**Small Spill:** Stop source of spill if safe to do. Absorb on inert media and collect into suitable container.

**Large Spill:** Shut off or plug source of spill. Dike area to contain spill. Neutralize spill with an alkali material. Absorb residual on inert media and collect into suitable container. Avoid contaminating ground and surface water.

**Waste Disposal Method:** Do not flush to sewer. Follow local, state and federal regulations for disposal.

## SECTION 7 · STORAGE AND HANDLING

**Handling:** Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists. Keep container closed and tightly sealed when not in use. Use good hygiene practices. Keep away from sources of ignition - No smoking.

**Storage:** Store in a segregated and approved area. Store in a cool, dry, ventilated area, away from incompatible substances. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Storage class (TRGS 510): Oxidizing hazardous materials

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## 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:** Nitric Acid 2 ppm ACGIH 2 ppm 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 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:** No data available

**Autoignition Temperature:** No data available

**Boiling Point:** 249 °F

**Melting Point/Freezing Point:** -21 °F

**Vapor Pressure:** 37 mmHg

**Vapor Density (Air-1):** No data available

**Odor/Appearance:** Colorless to light yellow liquid, pungent odor.

**Flammability Limits:** No data available

**Specific Gravity:** 1.41

**Volatile %:** 100

**Evaporation Rate (BuAc=1):** No data available  
**pH:** < 1

**Solubility in Water:** Miscible

**Relative Vapor Density (20 °C):** 1.39-1.41

## SECTION 10 · STABILITY AND REACTIVITY

**Stability:** Stable under normal pressure and temperature.

**Conditions to Avoid:** Incompatibles. Moisture.

**Incompatibility:** Strong oxidizers, alkali, and organic materials.

**Hazardous Decomposition Products:** Oxides of nitrogen and various hydrocarbons.

**Possibility of Hazardous Reactions:** No available information or data.

**Reactivity:** May accelerate the burning of other combustible materials. May cause or intensify fire; oxidizer.

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## SECTION 11 · TOXICOLOGICAL INFORMATION

### Signs and Symptoms of Overexposure:

**Eye:** Contact may cause immediate severe irritation progressing quickly to chemical burns. Can cause blindness.

**Skin:** Contact may cause immediate severe irritation progressing quickly to chemical burns.

**Ingestion:** May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. Swallowing a small quantity of this material will result in serious health hazard.

**Inhalation:** Causes severe respiratory irritation if inhaled. Symptoms may include: Burning of nose and throat, constriction of airway, difficulty breathing, shortness of breath, bronchial spasms, chest pain, and pink frothy sputum. Contact may cause immediate severe irritation progressing quickly to chemical burns. May cause pulmonary edema. Symptoms may be delayed.

### Acute oral toxicity:

Nitric Acid: LD50 rat: No available data

### Acute inhalation toxicity:

Nitric Acid: LC50 rat: 0.13 mg/l 4h

### Acute dermal toxicity:

Nitric Acid: LD50 Rabbit: causes burns

### Serious eye damage/eye irritation

Eyes - rabbit: Corrosive to eyes

**Germ Cell mutagenicity:** Not classified

**Carcinogenicity:** Not classified

**Reproductive Toxicity:** Not classified

**STOT single exposure:** Not classified

**STOT repeated exposure:** Not classified

## SECTION 12 · ECOLOGICAL INFORMATION

**Aquatic Toxicity:** No Published Data

**Persistence and Degradability:** No data available

**Bioaccumulative Potential:** No data available

**Mobility in Soil:** No data available

## SECTION 13 · DISPOSAL CONSIDERATIONS

Chemical waste generators must determine at the time of disposal, whether a discarded chemical is classified as a hazardous waste. Chemical additions, processing or otherwise altering this material may make waste management information presented in this SDS incomplete, inaccurate or otherwise inappropriate. The transportation, storage, treatment and disposal of this waste material must be conducted in compliance with 40 CFR 262, 263, 264, 268 and 270. 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:** Nitric Acid

**Hazard Class:** 8 (5.1)

**UN Number:** 2031

**Packaging Group:** 2

**Poison Inhalation Hazard:** No

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## 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 is 1429 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 on the Chemical Substance Inventory and designated as active in U.S. commerce.

**SARA Section 311/312 (40 CFR 370) Hazard Categories:**  
Acute Health Hazard, Chronic Health Hazard

**SARA Section 313 (40 CFR 372) Hazard Categories:** This product contains the following toxic chemical subject to reporting requirements: Nitric Acid

**Clean Water Act:** Nitric Acid a chemical in this product is listed as a Hazardous Substance under the CWA

**Clean Air Act:** Nitric Acid a chemical in this product is listed as a Hazardous Substance 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

**SDS Revision Date:** October 2019

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

**Health: 3**

**Flammability: 0**

**Reactivity: 2**

**Special Hazard: OX**

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 SDS and its contents from that originally submitted by Colonial.