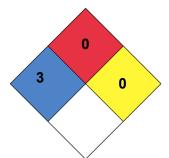


NFPA



# SAFETY DATA SHEET Calcium

**HMIS** 



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks

## SECTION 1) CHEMICAL PRODUCT AND MANUFACTURER'S IDENTIFICATION

Product Name Calcium Product ID # 030

Manufacturer's Name Huma

Address: 1331 W Houston Ave. Gilbert, AZ, US, 85233

Emergency Phone Chemtrec: (In the USA) 800-424-9300 (International) 703-527-3887

Information Phone # 480-961-1220

Product Use Used as a part of a plant nutrition program.

## **SECTION 2) HAZARDS IDENTIFICATION**

Classification Corrosive to metals - Category 1

Acute toxicity Inhalation Vapor - Category 2 Acute toxicity Oral - Category 4 Serious Eye Damage - Category 1 Skin Corrosion - Category 1

Specific Target Organ Toxicity - Repeated Exposure - Category 2

Safety data sheet prepared in accordance to the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS).

Pictograms Signal Word Danger



**Precautionary Statements - Response** 



Hazardous Statements - Health

H330 - Fatal if inhaled H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage H373 - May cause damage to organs through prolonged

or repeated exposure

Hazardous Statements - Physical H290 - May be corrosive to metals

Precautionary Statements – General P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103 - Read label before use.

Precautionary Statements – Prevention P260 - Do not breathe fume/gas/mist/vapors/spray.

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

P284 - Wear respiratory protection. P264 - Wash thoroughly after handling.

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

P234 - Keep only in original packaging.

P280 - Wear protective gloves, protective clothing, eye protection/face protection.

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P310 - Immediately call a POISON CENTER or doctor.

P320 - Specific treatment is urgent (see First-Aid on this label).

P301 + P312 - IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P330 - Rinse mouth.

P390 - Absorb spillage to prevent material damage.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

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 or shower.

P363 - Wash contaminated clothing before reuse. P321 - Specific treatment (see First-Aid on this label). Precautionary Statements – Storage P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up.

P406 - Store in a corrosive resistant container with a resistant inner liner.

Precautionary Statements - Disposal P501 - Dispose of contents/container in accordance with local/national/international

regulations.

## **SECTION 3) COMPOSITION/INFORMATION ON INGREDIENTS**

CASChemical Name% By Weight13477-34-4Calcium Nitrate, Tetrahydrate30%-40%7697-37-2Nitric Acid1%-3%

Specific chemical identity and/or exact percentage (concentration) of the composition has been withheld to protect confidentiality.

#### **SECTION 4) FIRST-AID MEASURES**

Inhalation Remove source of exposure or move person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER

or doctor. Specific treatment is urgent (see First-Aid on this label). If breathing has stopped, trained personnel should begin rescue breathing or, if the heart has stopped, immediately start cardiopulmonary resuscitation (CPR) or automated external defibrillation (AED). If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by the POISON

CENTER/doctor.

Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 30 minutes or until medical aid is available. Take care not to

rinse contaminated water into the unaffected eye or onto the face. Immediately call a POISON CENTER or doctor.

Take off immediately all contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Rinse skin with lukewarm, gently

Skin

Contact

Take off immediately all contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Rinse skin with lukewarm, gently flowing water/shower for a duration of 30 minutes or until medical aid is available. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before re-use or discard.

Ingestion Immediately call a POISON CENTER or doctor. Rinse mouth. If breathing is difficult, trained personnel should administer

emergency oxygen if advised to do so by the POISON CENTER/doctor. Do NOT induce vomiting. If vomiting occurs naturally, lie

on your side, in the recovery position.

Most important symptoms and effects, both acute and delayed No data available.

#### Indication of any immediate medical attention and special treatment needed

Treat according to symptoms (decontamination, vital functions), no known specific antidote. Treatment should be supportive and based on the judgement of the physician in response to the reaction of the patient.

## **SECTION 5) FIRE-FIGHTING MEASURES**

Suitable Extinguishing Media

Dry chemical, foam, carbon dioxide, water-spray or alcohol-resistant foam. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Large Fire: Water spray for or

oxygen. Use caution when applying carbon dioxide in confined spaces. Large Fire : Water spray, fog or alcohol-resistant foam.

Unsuitable Extinguishing Media Do not use straight stream of water

**Specific Hazards Arising from** Fire will produce irritating, toxic and corrosive gases. Containers may explode in fire.

Precautions for Firefighters

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Cool containers with flooding quantities of water until well after fire is out. Caution should be exercised when

containers with flooding quantities of water until well after fire is out. Caution should be exercised wher using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Special Protective Equipment Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.

#### SECTION 6) ACCIDENTAL RELEASE MEASURES

**Emergency Procedures** Evacuate and isolate hazard area and keep unauthorized personnel away. Stay uphill and/or upstream.

Ventilate closed spaces before entering. Do not touch damaged containers or spilled materials unless wearing

appropriate protective clothing.

**Protective Equipment**Wear chemical protective clothing and positive pressure self-contained breathing apparatus (SCBA).

Breathing protection is required.

**Personal Precautions** Do not breathe vapor or mist. Do not get on skin, eyes or clothing.

Environmental Precautions Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other

unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

Methods and Materials for

Absorb Liquids in vermiculite, dry sand, earth, or similar inert material and deposit in sealed containers for

Containment and Cleaning Up disposal. Ventilate area after clean-up is complete.

## **SECTION 7) HANDLING AND STORAGE**

General Wash hands after use. Do not breathe vapor or mist. Use good personal hygiene practices. Eating, drinking and smoking in

work areas is prohibited. Remove contaminated clothing and protective equipment before entering eating areas. All containers must be properly labelled. Eyewash stations and showers should be available in areas where this material is used and stored

Do not get in eyes, on skin, or on clothing.

**Ventilation**Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source. Report ventilation failures immediately.

Storage Room Store in a cool, dry, well ventilated area, away from sources of ignition and incompatibilities. Keep containers securely sealed

Requirements

Storage Room
Requirements

Store in a cooi, dry, well verificated area, away norm sources or ignition and incompatibilities. Reep containers securely sealed when not in use. Containers that have been opened must be carefully resealed to prevent leakage. Indoor storage should meet OSHA standards and appropriate fire codes. Empty containers retain residue and may be dangerous. Store in approved

containers and protect against physical damage.

the Chemical

## SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION







**Eye Protection** Wear eye protection with side shields or goggles. Wear indirect-vent, impact and splash resistant goggles when working with

liquids.

**Skin**Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of containing the c

neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and over-boots of chemically impervious materials such as neoprene or nitrile rubber. Launder

soiled clothes or properly disposed of contaminated material, which cannot be decontaminated.

Respiratory Protection If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 should be followed. Check with respiratory protective

equipment suppliers.

Appropriate Engineering

Controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Chemical Name	ACGIH TWA (mg/m³)	ACGIH TWA (ppm)	ACGIH STEL (mg/m³)	ACGIH STEL (ppm)	ACGIH Carcinogen	ACGIH TLV Basis	ACGIH Notations
Nitric Acid		2	4	4		URT & eye irr; dental erosion	
Chemical Name	OSHA TWA (mg/m³)	OSHA TWA (ppm)	OSHA STEL (mg/m³)	OSHA STEL (ppm)	OSHA Carcinogen	OSHA Skin designation	OSHA Tables (Z1, Z2, Z3)
Nitric Acid	5	2					1
Chemical Name	NIOSH TWA (mg/m³)	NIOSH TWA (ppm)	NIOSH STEL (mg/m³)	NIOSH STEL (ppm)	NIOSH Carcinogen		
Nitric Acid	5	2	10	4			

irr - Irritation, URT - Upper respiratory tract

SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES				
Appearance:	Clear to Slightly hazy, light amber	Bulk Density (pounds/ft3):	N/A	
Physical State:	Liquid	Vapor Pressure:	No data available	
Odor:	Wintergreen Type	Vapor Density:	No data available	
Odor Threshold:	No data available	Evaporation Rate:	No data available	
Molecular Formula:	Mixture	VOC Content:	No data available	
Boiling Point:	Greater than 100° C. (212° F.)	Water Solubility:	Complete	
Freezing/Melting Point:	Less than 0° C. (32° F.)	pH (as is):	≤ 1.0	
Specific Gravity:	1.41	Density (pounds/gallon):	11.75	

# **SECTION 10) STABILITY AND REACTIVITY**

Reactivity No data available.

**Chemical Stability** Stable under normal storage and handling conditions.

Possibility of Hazardous Reactions/Polymerization Will not occur.

**Conditions to Avoid** Avoid heat, sparks, flame, high temperature and contact with incompatible materials.

Incompatible Materials Strong bases, acids, and oxidizing agents. Corrosive in contact with metals.

Hazardous Decomposition Products Oxides of carbon

#### SECTION 11) TOXICOLOGICAL INFORMATION

Acute Toxicity Fatal if inhaled

Harmful if swallowed

The Acute Toxicity Estimate (ATE) for an oral exposure to this mixture is 1111.11 mg/kg body weight The Acute Toxicity Estimate (ATE) for a dermal exposure to this mixture is >5000 mg/kg body weight The Acute Toxicity Estimate (ATE) for an inhalation (vapour) exposure to this mixture is 1.5625 mg/l

7697-37-2 NITRIC ACID

Toxic if inhaled. Corrosive to the respiratory tract.

Aspiration Hazard Carcinogenicity Germ Cell Mutagenicity

Reproductive Toxicity

Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.

Respiratory/Skin Sensitization Serious Eye Damage/Irritation

Causes serious eye damage 7697-37-2 NITRIC ACID Corrosive to the eye.

Skin Corrosion/Irritation

Causes severe skin burns and eye damage

7697-37-2 NITRIC ACID

**Specific Target Organ Toxicity** 

- Repeated Exposure

May cause damage to organs through prolonged or repeated exposure

**Specific Target Organ Toxicity** 

Based on available data, the classification criteria are not met.

- Single Exposure

Inhalation, Ingestion, Skin contact, Eye contact

**Likely Routes of Exposure** 

7697-37-2 NITRIC ACID
Serious local effects by all routes of exposure.

**Miscellaneous Health Effects** 

7697-37-2 NITRIC ACID

Inhalation may cause asthma-like reactions. Exposure could cause asphyxiation due to swelling in the throat. Inhalation of high concentrations may cause pneumonitis and lung oedema. Repeated or prolonged inhalation may cause effects on the teeth. This may result in tooth erosion. The substance may have effects on the upper respiratory tract and lungs. This may result in chronic inflammation of the respiratory tract and reduced lung function. Mists of this strong inorganic acid are carcinogenic to humans.

## **SECTION 12) ECOLOGICAL INFORMATION**

**Ecotoxicity** 

Based on available data, the classification criteria are not met.

Persistence and Degradability Bioaccumulative Potential Mobility in Soil

Other Adverse Effects

No data available. No data available. No data available. No data available.

Results of the PBT and vPvB assessment

7697-37-2 NITRIC ACID The substance is not PBT / vPvB.

## **SECTION 13) DISPOSAL CONSIDERATIONS**

**Waste Disposal** 

It is the responsibility of the user of the product to determine at the time of disposal whether the product meets local criteria for hazardous waste. Waste management should be in full compliance with national, state and local laws. Empty Containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes.

SECTION 14) TRANSPORT INFORMATION					
	U.S. DOT Info	IMDG Info	IATA Info		
UN Number	UN1760	UN1760	UN1760		
UN Proper Shipping Name	Corrosive liquids, n.o.s. (NITRIC ACID)	Corrosive liquids, n.o.s. (CALCIUM NITRATE, tetrahydrate, NITRIC ACID)	Corrosive liquids, n.o.s. (CALCIUM NITRATE, tetrahydrate, NITRIC ACID)		
Transport Hazard Class	8	8	8		
Packing Group	II	II	II		
Hazardous Substance (RQ)	No Data Available	No Data Available	No Data Available		
Environmental Hazards	No Data Available	No Data Available	No Data Available		
Special Precautions for User	No Data Available	No Data Available	No Data Available		
Transport in bulk according to					
Annex II of MARPOL and the	No Data Available	No Data Available	No Data Available		
IBC code					

SECTION 15) REGULATORY INFORMATION				
CAS	Chemical Name	% By Weight	Regulation List	
13477-34-4	Calcium Nitrate, Tetrahydrate	30%-40%	SARA313, SARA312, NJ_RightToKnow_HazSubList - New Jersey Right to Know Hazardous Substance List (RTKHSL)	
7697-37-2	Nitric Acid	1%-3%	SARA313, CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act, SARA312, TSCA - Toxic Substances Control Act (TSCA), NJ_RightToKnow_HazSubList - New Jersey Right to Know Hazardous Substance List (RTKHSL), MA_RightToKnow - Massachusetts Right to Know	

Product does not contain any chemicals listed under California Proposition 65

#### SECTION 16) OTHER INFORMATION

#### Glossary

ACGIH - American Conference of Governmental Industrial Hygienists; CAS - Chemical Abstracts Service; Chemtrec - Chemical Transportation Emergency Center; DSL - Domestic Substances List; ESL- Effects screening levels; GHS - "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations; HMIS - Hazardous Material Information Service; IATA - Dangerous Goods Regulations (DGR) for the air transport (IATA); IMDG - International Maritime Dangerous Goods Code; LC - Lethal Concentration; LD - Lethal Dose; NFPA - National Fire Protection Association; OEL - Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL - Permissible Exposure Limit; SARA 313 - Superfund Amendments and Reauthorization Act, Section 313; SCBA - Self Contained Breathing Apparatus; ppm - parts per million; STEL - Short-term exposure limit; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act Public Law 94-469; TWA - Time-weighted average; US DOT- US Department of Transportation.

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