

SECTION 1: IDENTIFICATION

1.1 Product Identifier

Product Form: Mixture

Product Name: Nitric Acid

Formula: HNO₃ + H₂O

Synonyms: Aqua Fortis, Azotic Acid, Engraver's Acid, Nital, Hydrogen Nitrate

STCC: 4930246

1.2 Intended Use of the Product

Uses of the substance/mixture: Manufacture of Fertilizers, Explosives, resin manufacture, other chemicals; Other Industrial Uses

Uses advised against: Consumer use

1.3 Name, Address, and Telephone of the Responsible Party

Company

CF Industries Sales, LLC

4 Parkway North, Suite 400

Deerfield, Illinois 60015-2590

847-405-2400

www.cfindustries.com

1.4 Emergency Telephone Number

Emergency Number : 800-424-9300

For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident, call CHEMTREC – Day or Night

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

Classification (GHS-US)

Ox. Liq. 3 H272

Met. Corr. 1 H290

Skin Corr. 1A H314

Eye Dam. 1 H318

Acute Tox. 3 H331

Full text of H-phrases: see section 16

2.2 Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US) :



Signal Word (GHS-US) : Danger

Hazard Statements (GHS-US) :
 H272 - May intensify fire; oxidizer.
 H290 - May be corrosive to metals.
 H314 - Causes severe skin burns and eye damage.
 H318 - Causes serious eye damage.
 H331 - Toxic if inhaled.

Precautionary Statements (GHS-US) :
 P210 - Keep away from extremely high or low temperatures, heat, ignition sources, direct sunlight. - No smoking.
 P220 - Keep/Store away from combustible material, oxidizable materials, and incompatible materials.

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P221 - Take any precaution to avoid mixing with combustible material, oxidizable materials, and incompatible materials.
P234 - Keep only in original container.
P260 - Do not breathe vapors, mist, spray.
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
P271: Use only outdoors in a well ventilated area.
P280 - Wear respiratory protection, eye protection, face shield, protective clothing, protective gloves.
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 - IF INHALED: Remove person 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.
P321 - Specific treatment (see section 4 on this SDS).
P363 - Wash contaminated clothing before reuse.
P370+P378 - In case of fire: Use appropriate media (see section 5) to extinguish.
P390 - Absorb spillage to prevent material damage.
P405 - Store locked up.
P406 - Store in corrosive resistant container with a resistant inner liner.
P501 - Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

2.3 Other Hazards

No additional information available

2.4 Unknown Acute Toxicity (GHS-US) Not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixture

Name	Product Identifier	% (w/w)	Classification (GHS-US)
Nitric acid	(CAS No) 7697-37-2	56 - 70	Ox. Liq. 3, H272 Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318 Acute Tox. 1, H330
Water	(CAS No) 7732-18-5	30 - 44	Not classified

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. If exposure to Nitric Acid vapor occurs, medical observation should continue for 24 - 48 hours after exposure. Delayed reactions may cause pulmonary edema.

Skin Contact: Immediately flush skin with plenty of water for at least 60 minutes. Remove contaminated clothing and shoes. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 60 minutes. Immediately call a POISON CENTER or doctor/physician.

Ingestion: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

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4.2 Most Important Symptoms and Effects Both Acute and Delayed

General: Causes severe skin burns and eye damage. Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.

Inhalation: Inhalation may cause immediate severe irritation progressing quickly to chemical burns. May cause pulmonary edema.

Skin Contact: Causes severe irritation which will progress to chemical burns. May be absorbed causing redness, pain, yellow staining. Symptoms may include: Redness. Pain. Serious skin burns. Blisters.

Eye Contact: Causes permanent damage to the cornea, iris, or conjunctiva. Symptoms may include: Redness. Pain. Blurred vision. Severe burns.

Ingestion: Contact may cause immediate severe irritation progressing quickly to chemical burns. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

Chronic Symptoms: May cause erosion of the teeth, or chronic bronchitis.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Suitable Extinguishing Media: Dry powder, alcohol-resistant foam, water in large amounts, carbon dioxide.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2 Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not flammable but will support combustion.

Explosion Hazard: The substance is a strong oxidant and reacts with combustible and reducing materials, causing fire and explosion hazard. Product is not explosive, however in contact with incompatibilities may release explosive hydrogen gas.

Reactivity: Can react explosively with reducing agents, metal powders, hydrogen sulfide, nitrate, and organic materials. Exothermic reaction on contact with water.

5.3 Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Flood fire area with water from a distance. Move containers from the fire area if you can do it without risk. Do not move cargo or vehicle if cargo has been exposed to heat. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Stay away from ends of tanks due to exploding potential when tanks are involved in a fire.

For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn. Do not get water inside containers. Do not apply water stream directly at source of leak.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Nitrogen oxides. acrid vapors. May release flammable gases.

Other Information: Use water spray to disperse vapors. Do not allow run-off from firefighting to enter drains or water sources.

5.4 Reference to Other Sections

Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not breathe vapor, mist or spray. Do not get in eyes, on skin, or on clothing. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Eliminate ignition sources. Stop leak if safe to do so. Ventilate area.

6.2 Environmental Precautions

Prevent entry to sewers and public waters.

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6.3 Methods and Material for Containment and Cleaning Up

For Containment: As an immediate precautionary measure, isolate spill or leak area in all directions. Contain any spills with dikes or absorbents. Do not allow into drains or water courses or dispose of where ground or surface waters may be affected.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Use water spray to disperse vapors. Absorb and/or contain spill with inert material, then place in suitable container. Cautiously neutralize spilled liquid. Do not take up in combustible material such as: saw dust or cellulosic material. Contact competent authorities after a spill.

6.4 Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection. See Section 13, Disposal Considerations.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling

Additional Hazards When Processed: May be corrosive to metals. Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained. When heated to decomposition, emits toxic fumes. Always add acid to water. Do NOT add water to acid!

Precautions for Safe Handling: Do not get in eyes, on skin, or on clothing. Do not breathe vapors, mist, spray, gas. Take any precaution to avoid mixing with combustible materials, ignition sources, incompatible materials. Use appropriate personal protection equipment (PPE).

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do not eat, drink or smoke when using this product. Wash hands and forearms thoroughly after handling.

7.2 Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof electrical, ventilating, and lighting equipment.

Storage Conditions: Store in a dry, cool, and well-ventilated place. Store in original container or corrosive resistant and/or lined container. Keep container closed when not in use. Keep in fireproof place. Keep/Store away from extremely high or low temperatures, direct sunlight, heat, ignition sources, combustible materials, incompatible materials. Segregate from metallic powders, carbides, hydrogen sulfide, turpentine, organic acids, and all combustible, organic or other readily oxidizable materials. Storage areas should be periodically checked for corrosion and integrity.

Incompatible Materials: Strong acids. Strong bases. Strong oxidizers. Finely divided metals. Hydrogen sulfide. Reducing agents. Organic chemicals. Turpentine. Alcohols. Acetic acid. Ammonia. Metals and metal salts.

7.3 Specific End Use(s)

Manufacture of Fertilizers, Explosives and other Chemicals.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

Nitric acid (7697-37-2)		
Mexico	OEL TWA (mg/m ³)	5 mg/m ³
Mexico	OEL TWA (ppm)	2 ppm
Mexico	OEL STEL (mg/m ³)	10 mg/m ³
Mexico	OEL STEL (ppm)	4 ppm
USA ACGIH	ACGIH TWA (ppm)	2 ppm
USA ACGIH	ACGIH STEL (ppm)	4 ppm
USA OSHA	OSHA PEL (TWA) (mg/m ³)	5 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	2 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	5 mg/m ³
USA NIOSH	NIOSH REL (TWA) (ppm)	2 ppm
USA NIOSH	NIOSH REL (STEL) (mg/m ³)	10 mg/m ³
USA NIOSH	NIOSH REL (STEL) (ppm)	4 ppm

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USA IDLH	US IDLH (ppm)	25 ppm
Alberta	OEL STEL (mg/m ³)	10 mg/m ³
Alberta	OEL STEL (ppm)	4 ppm
Alberta	OEL TWA (mg/m ³)	5.2 mg/m ³
Alberta	OEL TWA (ppm)	2 ppm
British Columbia	OEL STEL (ppm)	4 ppm
British Columbia	OEL TWA (ppm)	2 ppm
Manitoba	OEL STEL (ppm)	4 ppm
Manitoba	OEL TWA (ppm)	2 ppm
New Brunswick	OEL STEL (mg/m ³)	10 mg/m ³
New Brunswick	OEL STEL (ppm)	4 ppm
New Brunswick	OEL TWA (mg/m ³)	5.2 mg/m ³
New Brunswick	OEL TWA (ppm)	2 ppm
Newfoundland & Labrador	OEL STEL (ppm)	4 ppm
Newfoundland & Labrador	OEL TWA (ppm)	2 ppm
Nova Scotia	OEL STEL (ppm)	4 ppm
Nova Scotia	OEL TWA (ppm)	2 ppm
Nunavut	OEL STEL (mg/m ³)	10 mg/m ³
Nunavut	OEL STEL (ppm)	4 ppm
Nunavut	OEL TWA (mg/m ³)	5.2 mg/m ³
Nunavut	OEL TWA (ppm)	2 ppm
Northwest Territories	OEL STEL (mg/m ³)	10 mg/m ³
Northwest Territories	OEL STEL (ppm)	4 ppm
Northwest Territories	OEL TWA (mg/m ³)	5.2 mg/m ³
Northwest Territories	OEL TWA (ppm)	2 ppm
Ontario	OEL STEL (ppm)	4 ppm
Ontario	OEL TWA (ppm)	2 ppm
Prince Edward Island	OEL STEL (ppm)	4 ppm
Prince Edward Island	OEL TWA (ppm)	2 ppm
Québec	VECD (mg/m ³)	10 mg/m ³
Québec	VECD (ppm)	4 ppm
Québec	VEMP (mg/m ³)	5.2 mg/m ³
Québec	VEMP (ppm)	2 ppm
Saskatchewan	OEL STEL (ppm)	4 ppm
Saskatchewan	OEL TWA (ppm)	2 ppm
Yukon	OEL STEL (mg/m ³)	10 mg/m ³
Yukon	OEL STEL (ppm)	4 ppm
Yukon	OEL TWA (mg/m ³)	5 mg/m ³
Yukon	OEL TWA (ppm)	2 ppm

8.2 Exposure Controls

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Gas detectors should be used when toxic gases may be released. Use explosion-proof equipment. Ensure all national/local regulations are observed.

Personal Protective Equipment: Gloves. Protective goggles. Protective clothing. Face shield. Insufficient ventilation: wear respiratory protection.



Materials for Protective Clothing: Chemically resistant materials and fabrics. Wear fire/flame resistant/retardant clothing.

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Hand Protection: Wear chemically resistant protective gloves. Neoprene or Viton gauntlet type gloves.

Eye Protection: Chemical safety goggles and face shield.

Skin and Body Protection: Wear fire/flammable resistant/retardant clothing. Rubber apron, boots.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. Nitric acid is an oxidizer and should not come in contact with cartridges and canisters that contain oxidizable materials, such as activated charcoal.

Other Information: When using, do not eat, drink, or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: Colorless to slightly yellow
Odor	: Pungent, acrid, choking odor
Odor Threshold	: 0.29
pH	: < 1 (Strong, monobasic acid)
Evaporation Rate	: Not available
Melting Point	: - 50 °F (10 °C)
Freezing Point	: Not available
Boiling Point	: 181 - 245 °F (82.7 - 118 °C)
Flash Point	: Not available
Auto-ignition Temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not available
Lower Flammable Limit	: Not available
Upper Flammable Limit	: Not available
Vapor Pressure	: 42 mm Hg @ 60 °F (16 °C)
Relative Vapor Density at 20 °C	: Not available
Relative Density	: 3.2 @ 60 °F (16 °C)
Specific gravity / density	: 11.67 lb/gal @ 60 °F (16 °C)
Specific Gravity	: 1.352 @ 60 °F (16 °C)
Solubility	: Soluble in water
Partition Coefficient: N-Octanol/Water	: Not available
Viscosity	: 0.75 @ 77 °F (25 °C)
Explosion Data – Sensitivity to Mechanical Impact	: Not expected to present an explosion hazard due to mechanical impact.
Explosion Data – Sensitivity to Static Discharge	: Not expected to present an explosion hazard due to static discharge.

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Can react explosively with reducing agents, metal powders, Hydrogen sulfide, nitrate, and organic materials. Exothermic reaction on contact with water.

Chemical Stability: May intensify fire; oxidizer.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Direct sunlight. Extremely high or low temperatures. Heat. Sparks. Open flame. Incompatible materials. Adding water to acid should be avoided.

Incompatible Materials: Strong acids. Strong bases. Strong oxidizers. Reducing agents. Amines. Organic chemicals. Powdered metals. Hydrogen sulfide. Avoid contact with most metals, carbides, hydrogen sulfide, turpentine, organic acids, combustibles (wood, paper, cotton) and other organic and readily oxidized materials.

Hazardous Decomposition Products: Thermal decomposition generates : Corrosive vapors. Nitrogen oxides. May release flammable gases. Explosive hydrogen gas.

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SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity: Not classified

LD50 and LC50 Data: LC50 (rat) >2.65 mg pure nitric acid/L/4 hours

Skin Corrosion/Irritation: Causes severe skin burns and eye damage.

pH: < 1 (Strong, monobasic acid)

Serious Eye Damage/Irritation: Causes serious eye damage.

pH: < 1 (Strong, monobasic acid)

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Teratogenicity: Not classified

Carcinogenicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Inhalation may cause immediate severe irritation progressing quickly to chemical burns. May cause pulmonary edema.

Symptoms/Injuries After Skin Contact: Causes severe irritation which will progress to chemical burns. May be absorbed causing redness, pain, yellow staining. Symptoms may include: Redness. Pain. Serious skin burns. Blisters.

Symptoms/Injuries After Eye Contact: Causes permanent damage to the cornea, iris, or conjunctiva. Symptoms may include: Redness. Pain. Blurred vision. Severe burns.

Symptoms/Injuries After Ingestion: Contact may cause immediate severe irritation progressing quickly to chemical burns. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

Chronic Symptoms: May cause erosion of the teeth, or chronic bronchitis.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Water (7732-18-5)	
LD50 Oral Rat	> 90000 mg/kg
Nitric acid (7697-37-2)	
LC50 Inhalation Rat	2.65 mg/l/4hr
ATE US (dust, mist)	130.00 mg/l/4h

SECTION 12: ECOLOGICAL INFORMATION

Toxicity No additional information available

Persistence and Degradability

Nitric Acid	
Persistence and Degradability	Not established.

Bioaccumulative Potential

Nitric Acid	
Bioaccumulative Potential	Not established.

Nitric acid (7697-37-2)	
Log Pow	-2.3 (at 25 °C)

Mobility in Soil Not available

Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Sewage Disposal Recommendations: Do not empty into drains; dispose of this material and its container in a safe way.

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Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

SECTION 14: TRANSPORT INFORMATION

Nitric Acid Concentration with more than 20 wt. % and Less Than 65 %: Sections 14.1 to 14.4 are applicable

14.1 In Accordance with DOT

Proper Shipping Name : NITRIC ACID (other than red fuming, with more than 20 percent and less than 65 percent nitric acid)

Hazard Class : 8

Identification Number : UN2031

Label Codes : 8

Packing Group : II

ERG Number : 157

CERCLA RQ : 1000 lbs



14.2 In Accordance with IMDG

Proper Shipping Name : NITRIC ACID (other than red fuming, with not more than 65 percent nitric acid)

Hazard Class : 8

Identification Number : UN2031

Packing Group : II

Label Codes : 8

Segregation Group : SG01

EmS-No. (Fire) : F-A

EmS-No. (Spillage) : S-Q



14.3 In Accordance with IATA

Proper Shipping Name : NITRIC ACID (other than red fuming, with more than 20 percent but less than 65 percent nitric acid)

Hazard Class : 8

Identification Number : UN2031

Label Codes : 8 + CAO

Packing Group : II

ERG Code (IATA) : 8L

Additional Information : PAX FORBIDDEN



14.4 In Accordance with TDG

Proper Shipping Name : NITRIC ACID (other than red fuming, with less than 65 % nitric acid)

Hazard Class : 8

Identification Number : UN2031

Label Codes : 8

Packing Group : II



Nitric Acid Concentration with at least 65 wt.% and not more than 70 %: Sections 14.5 to 14.8 are applicable

14.5 In Accordance with DOT

Proper Shipping Name : NITRIC ACID (other than red fuming, with at least 65 percent and less than 70 percent nitric acid)

Hazard Class : 8

Identification Number : UN2031

Label Codes : 8, 5.1

Packing Group : II



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ERG Number : 157
CERCLA RQ : 1000 lbs

14.6 In Accordance with IMDG

Proper Shipping Name : NITRIC ACID (other than red fuming, with not more than 70 percent nitric acid)
Hazard Class : 8
Identification Number : UN2031
Packing Group : II
Label Codes : 8, 5.1
Segregation Group : SG01
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-Q



14.7 In Accordance with IATA

Proper Shipping Name : NITRIC ACID (other than red fuming, with at least 65 percent but not more than 70 percent nitric acid)
Hazard Class : 8
Identification Number : UN2031
Label Codes : 8 + CAO + 5.1
Packing Group : II
ERG Code (IATA) : 8L
Additional Information : PAX FORBIDDEN



14.8 In Accordance with TDG

Proper Shipping Name : NITRIC ACID (other than red fuming, with at least 65 % but not more than 70 percent nitric acid)
Hazard Class : 8
Identification Number : UN2031
Label Code : 8, 5.1



SECTION 15: REGULATORY INFORMATION

US Federal Regulations

Nitric Acid	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Fire hazard
Water (7732-18-5)	
Not listed on the United States TSCA (Toxic Substances Control Act) inventory	
Nitric acid (7697-37-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on United States SARA Section 302 Listed on United States SARA Section 313	
SARA Section 302 Threshold Planning Quantity (TPQ)	1000
SARA Section 313 - Emission Reporting	1.0 %

US State Regulations

Nitric acid (7697-37-2)
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List

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U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

U.S. - Pennsylvania - RTK (Right to Know) List

Canadian Regulations

Nitric Acid	
WHMIS Classification	Class C - Oxidizing Material Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class E - Corrosive Material
	

Water (7732-18-5)

WHMIS Classification	Uncontrolled product according to WHMIS classification criteria
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Nitric acid (7697-37-2)

Listed on the Canadian DSL (Domestic Substances List)

IDL Concentration 1 %

WHMIS Classification	Class C - Oxidizing Material Class E - Corrosive Material Class D Division 2 Subdivision B - Toxic material causing other toxic effects
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This product has been classified in accordance with the hazard criteria of the Hazardous Products Act (HPA)(SOR 2015-17)and the SDS contains all of the information required by HPA.

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date	: 23 November 2020
Revision Comments	: This version contains updates/revisions to the following sections: <ul style="list-style-type: none">Sections 1,2,3,9,11,14,15, 16

GHS Full Text Phrases:

Eye Dam. 1	Serious eye damage/eye irritation Category 1
Met. Corr. 1	Corrosive to metals Category 1
Ox. Liq. 3	Oxidizing liquids Category 3
Skin Corr. 1A	Skin corrosion/irritation Category 1A
H272	May intensify fire; oxidizer
H290	May be corrosive to metals
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H331	Toxic if inhaled

NFPA Rating

Health Hazard	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
Fire Hazard	: 0 - Materials that will not burn.
Reactivity	: 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.



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Specific Hazard : OX - This denotes an oxidizer, a chemical which can greatly increase the rate of combustion/fire.

HMIS III Rating

Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

Flammability : 0 Minimal Hazard

Physical : 0 Minimal Hazard

Party Responsible for the Preparation of This Document

CF Industries, Corporate EHS Department, 847-405-2400

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

CF believes the information contained herein is accurate; however, CF makes no guarantees or warranties with respect to such accuracy and assumes no liability in connection with the use of the information contained herein by any party. The provision of the information contained herein by CF is not intended to be and should not be construed as legal advice or as ensuring compliance by other parties. Judgments as to the suitability of the information contained herein for the party's own use or purposes are solely the responsibility of that party. Any party handling, transferring, transporting, storing, applying or otherwise using this product should review thoroughly all applicable laws, rules, regulations, standards and good engineering practices. Such thorough review should occur before the party handles, transfers, transports, stores, applies or otherwise uses this product.