



SAFETY DATA SHEET

Preparation Date: 3/26/2014 Revision Date: 4/15/2016 Revision Number: G3

1. IDENTIFICATION

Product identifier

Product code: N1084

Product Name: NITRIC ACID, TRACEGRADE

Other means of identification

Synonyms: Aqua fortis

Azotic acid

Hydrogen nitrate

CAS #: Mixture
RTECS # QU5775000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: Manufacture of inorganic and organic nitrites and nitro compounds for fertilizers, dye

intermediates, explosives. Metallurgy, photo-engraving, etching metals (steel), ore

floatation. Urethanes. Rubber chemicals.

Uses advised against No information available

Supplier: Spectrum Chemical Mfg. Corp

14422 South San Pedro St.

Gardena, CA 90248 (310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone numberChemtrec 1-800-424-9300Contact Person:Martin LaBenz (West Coast)Contact Person:Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Skin corrosion/irritation	Category 1Sub-category A
Serious eye damage/eye irritation	Category 1
Oxidizing liquids	Category 3

Label elements

Danger

Hazard statements

Causes severe skin burns and eye damage

May intensify fire; oxidizer



Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Not available

Precautionary Statements - Prevention

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Keep away from heat/sparks/open flames/hot surfaces. — No smoking

Keep/Store away from clothing/ .? /combustible materials

Take any precaution to avoid mixing with combustibles .?

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician

Specific treatment (see .? on this label)

IN CASE OF FIRE: Use water to extinguish. Do not use dry chemicals or foams. CO₂or Halon may provide limited control.

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 or doctor/physician.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Nitric acid	7697-37-2	70
7697-37-2		
Water	7732-18-5	30
7732-18-5		

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TRACEGRADE

4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you

> have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222. Ensure that medical personnel are aware of the material(s) involved and take

precautions to protect themselves. First aider needs to protect himself.

Skin Contact: Wash off immediately with soap and plenty of water. Continue flushing with plenty of water for

at least 15 minutes. Remove all contaminated clothes and shoes. Immediate medical attention

is required. Call a physician immediately.

Flush eyes with water for 15 minutes. Immediate medical attention is required. Call a physician **Eye Contact:**

immediately.

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.

WARNING! It may be hazardous to the person providing aid to give mouth-to-mouth

resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required. Call a physician

immediately.

Do not induce vomiting without medical advice. Never give anything by mouth to an Ingestion:

> unconscious person. If victim is conscious, give water or milk. Follow with Milk of Magnesia or egg whites beaten with water. Immediate medical attention is required. Call a physician or

Poison Control Center immediately.

Most important symptoms and effects, both acute and delayed

Symptoms

Severe skin and eye irritation or burns. Dyspnea (Shortness of breath and difficulty breathing). Coughing and wheezing. Abdominal pain. Vomiting. Nausea. Choking sensation. Causes serious gastrointestinal tract irritation or burns. Can burn mouth, throat, and stomach. May cause perforation of the digestive tract. Irritating to respiratory system. May cause chemical burns to the respiratory tract. May cause pulmonary edema. Coughing. Dyspnea (Difficulty

breathing and shortness of breath).

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Water. CO2 may be of no value in extinguishing fires

involving oxidizers and may only provide limited control.

Unsuitable Extinguishing Media: Dry chemical. Foam. Halons.

Specific hazards arising from the chemical

No information available. **Hazardous Combustion Products:**

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Specific hazards: Oxidizer. Keep away from combustible materials (wood,

paper, oil, clothing, etc.)

The product is not flammable, but it may cause fire when in

contact with other material

Contact with combustible or organic materials may cause

fire

Will accelerate burning when involved in a fire

Container explosion may occur under fire conditions or when

heated

Flammable in presence of cellulose or other combustible

materials.

Phosphine, hydrogen sulfide, selenide all ignite when fuming

nitric acid is dripped into gas.

Phosphine ignites in concentrated nitric acid.

Nickel tetraphosphide ignites with fuming nitric acid. Contact with metals may evolve flammable hydrogen gas.

A jet of ammonia will ignite nitric acid vapor.

Cellulose may be converted to the highly flammable nitrate ester on contact with the vapor of nitric acid as well as the

liquid itself

Special Protective Actions for Firefighters

Specific Methods: No information available.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Do not touch

damaged containers or spilled material unless wearing appropriate protective clothing. Use

personal protective equipment. Avoid contact with skin, eyes and clothing.

Environmental precautions Prevent further leakage or spillage if safe to do so. Should not be released into the

environment. Do not let product enter drains. Do not flush into surface water or

sanitary sewer system. Prevent entry into waterways, sewers, basements or confined

areas.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk.

Methods for cleaning up

Neutralize with Sodium carbonate or Sodium bicarbonate. Dilute with water. Absorb

or cover with dry earth, sand or other non-combustible material and transfer to

containers. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Use only in area provided with appropriate exhaust ventilation. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe vapors or spray mist. Handle in accordance with good industrial hygiene and safety practice.

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Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. May corrode metallic surfaces. Do not store in uncoated metallic containers. Store in a segrated and approved area. Store away from incompatible materials.

Incompatible Materials:

Bases. Reducing agents. Combustible materials. Organic materials. Metals. Acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
Nitric acid	2 ppm TWA	2 ppm TWA	4 ppm STEL	No information available
7697-37-2	5 mg/m ³ TWA	5 mg/m ³ TWA	2 ppm TWA	
		4 ppm STEL		
		10 mg/m ³ STEL		
Water	None	None	None	None
7732-18-5				

Canada

Components	Alberta	British Columbia	Ontario	Quebec
Nitric acid	2 ppm TWA	2 ppm TWA	2 ppm TWA	2 ppm TWAEV
7697-37-2	5.2 mg/m³ TWA 4 ppm STEL 10 mg/m³ STEL	4 ppm STEL		5.2 mg/m³ TWAEV 4 ppm STEV 10 mg/m³ STEV
Water 7732-18-5	None	None	None	None

Australia and Mexico

Components	Australia	Mexico
Nitric acid	4 ppm STEL	2 ppm TWA
7697-37-2	10 mg/m ³ STEL	5 mg/m³ TWA
	2 ppm TWA	4 ppm STEL
	5.2 mg/m ³ TWA	10 mg/m ³ STEL
Water	None	None
7732-18-5		

Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation. Provide exhaust ventilation or

other engineering controls to keep the airborne

concentrations of vapors and mist below their respective

threshold limit value.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Face-shield Eye protection:

Skin and body protection: Chemical resistant protective suit. Gloves. Boots.

Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Respiratory protection:

Hygiene measures: Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke.

Wash hands before breaks and immediately after handling the product.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance:

Liquid No information available

Odor: Taste

Acrid. Disagreeable. Choking. No information available HNO3

Molecular/Formula weight: Flammability:

63.01 No information available No information available.

Flash Point Tested according to: Autoignition Temperature (°C/°F):

No information available Not available

Upper Explosion Limit (%): :Ha

No information available No information available

Boiling point/range(°C/°F): Decomposition temperature(°C/°F):

121-122°C/249.8-251.6 °F No information available

Density (g/cm3): Specific gravity:

1.41-1.42 @ 20 deg. C No information available

Evaporation rate: Vapor density:

No information available No information available

Partition coefficient Odor threshold (ppm):

0.29-0.98 (n-octanol/water):

No information available

Miscibility: Solubility:

No information available Freely soluble in water

Colorless. Light yellow.

Formula:

Flashpoint (°C/°F):

Lower Explosion Limit (%):

No information available

Melting point/range(°C/°F):

-41 °C/-42 °F

Bulk density:

No information available

Vapor pressure @ 20°C (kPa):

No information available

VOC content (g/L): No information available

Viscosity:

No information available

10. STABILITY AND REACTIVITY

Reactivity

Oxidizer. Reacts violently with alcohol, organic material, turpene, charcoal.

Violent reaction with Nitric acid + Acetone and Sulfuric acid. Incompatible with combustible materials, metallic powders, carbides, aldehydes, cyanides, chromic acid, hydrogen sulfide, sulfides, metals, organic solvents, acetic acid, alkalies, alcohols, cesium and rubidium acetvlides, nitrobenzene

Flammable in presence of cellulose or other combustible materials.

Phosphine, hydrogen sulfide, selenide all ignite when fuming nitric acid is dripped into gas.

Phosphine ignites in concentrated nitric acid.

Nickel tetraphosphide ignites with fuming nitric acid.

Contact with metals may evolve flammable hydrogen gas.

A jet of ammonia will ignite nitric acid vapor.

Cellulose may be converted to the highly flammable nitrate ester on contact with the vapor of nitric acid as well as the liquid itself Reacts exlposively with metallic powders, carbides, cyanides, sulfides, alkalies and turpentine.

Can react explosively with many reducing agents.

Arsine, phosphine, tetraborane all oxidized explosively in presence of nitric acid.

Cesium and rubidium acetylides explode in contact with nitric acid.

Explosive reaction with Nitric Acid + Nitrobenzene + water.

Detonation with Nitric Acid + 4-Methylcyclohexane.

The addition of warm fuming nitric acid to phosphine causes explosion.

Addition of water to nitration mixture diluted with an equal volume of water can cause a low order explosion.

Cyclopentadiene reacts explosively with fuming nitric acid.

Mixtures of fuming nitric acid and acetonitrile are high explosives

Chemical stability

Stable. Stability:

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Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Incompatible materials.

Incompatible Materials: Bases. Reducing agents. Combustible materials. Organic materials. Metals. Acids.

Hazardous decomposition products: Nitrogen oxides (NOx).

Other Information

Corrosivity: Extremely corrosive in presence of aluminum, of copper, of brass.

Non-corrosive in presence of glass, of stainless steel(304), of stainless steel(316)

Special Remarks on Corrosivity: In presence of traces of oxides, it attacks all base metals except aluminum and

special chromium steels.

It will attack some forms of plastics, rubber, and coatings.

Nitric Acid corrodes almost all metals except gold, and white gold, forming nitrates.

No corrosive effect on bronze.

No corrosivity data for zinc, and steel

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Skin. Inhalation. Ingestion.

Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (inhalation-gas) 35714mg/l

Component Information

Nitric acid - 7697-37-2

LD50/oral/rat = No information available

LD50/oral/mouse = No information available

LD50/dermal/rabbit = No information available

LD50/dermal/rat = No information available

LC50/inhalation/rat = 67 ppm Inhalation LC50 Rat 4 h

130 mg/m³4 h

7 mg/l 1 h

LC50/inhalation/mouse = No infomation available

Other LD50 or LC50information = 430 mg/kg Oral LDL Rat

Water - 7732-18-5

LD50/oral/rat = > 90 mL/kg Oral LD50 Rat

LD50/oral/mouse = No information available

LD50/dermal/rabbit = No information available

LD50/dermal/rat = No information available

LC50/inhalation/rat = No information available

LC50/inhalation/mouse = No infomation available

Other LD50 or LC50information = No information available

Product Information

LD50/oral/rat =

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VALUE- Acute Tox Oral = No information available

LD50/oral/mouse =

Value - Acute Tox Oral = No information available

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat

VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = No information available **VALUE-Gas** = No information available VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available **VALUE - Gas =** No information available VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: Severe skin irritation. Causes skin burns. May cause deep penetrating ulcers of the

> skin with a characteristic yellow to brownish discoloration. Absorption through the skin may cause methemoglobinemia (the formation of methemoglobin in the blood which causes deficient oxygenation of the blood due to decreased available

hemoglobin).

Severe eye irritation. Causes eye burns. May cause irreversible eye damage. **Eye Contact:**

Causes irritation and possible burns of the respiratory tract with burning pain in the Inhalation

nose and throat, coughing, sneezing, wheezing, shortness of breath and pulmonary

edema..

Ingestion Causes serious gastrointestinal tract irritation or burns with nausea, vomiting, severe

abdominal pain, and possible "coffee grounds" appearance of the vomitus. May

cause perforation of the digestive tract..

Aspiration hazard No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity Repeated inhalation may produce changes in pulmonary function and/or chronic

> bronchitis. It may also cause weight loss, and affect behavior/central nervous system (headache, dizziness, drowsiness, muscle contaction or spasticity, weakness, loss of coordinaton, mental confusion), and urinary system (kidney faillure, decreased urinary output after several hours of uncorrected circulatory

collapse).

Repeated exposure may cause discoloration and/or errosion of teeth (dental

enamel).

Eye irritation and respiratory tract signs and symptoms resembling those of frequent upper respiratory viral infections have been associated with chronic nitric acid

exposure

No information available Sensitization:

Mutagenic Effects: No information available

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Carcinogenic effects: Not considered carcinogenic

Components	IARC	ACGIH -	NTP	OSHA HCS -	Australia - Notifiable	Australia - Prohibited
		Carcinogens		Carcinogens	Carcinogenic	Carcinogenic
					Substances	Substances
Nitric acid	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
Water	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

Reproductive toxicity No data is available

Reproductive Effects: No information available

Developmental Effects: May cause adverse developmental effects based on animal data

Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposureSTOT - repeated exposure
No information available
No information available

Target Organs: Skin. Eyes. Respiratory system.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: Aquatic environment.

Nitric acid - 7697-37-2

Freshwater Fish Species Data: 72 mg/L LC50 Gambusia affinis 96h

Persistence and degradability: No information available

Bioaccumulative potential: No information available

Mobility: No information available

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Nitric acid	None	None	None	None
Water	None	None	None	None

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14. TRANSPORT INFORMATION

DOT

UN-No: UN2031

Proper Shipping Name: Nitric acid (Solution)

Hazard Class: Subsidiary Risk: 5.1 **Packing Group:** Ш **ERG No:** 157

Marine Pollutant No data available DOT RQ (lbs): No information available **Special Provisions** No Information available

R4 Symbol(s):

TDG (Canada)

UN-No: UN2031

Nitric acid (Solution) **Proper Shipping Name:**

Hazard Class: 8 **Subsidiary Risk:** 5.1 **Packing Group:** Ш

Marine Pollutant No Information available

ADR

UN-No: UN2031

Proper Shipping Name: Nitric acid (Solution)

Hazard Class: 8 **Packing Group:** Ш **Subsidiary Risk:** 5.1

IMO / IMDG

UN-No: UN2031

Proper Shipping Name: Nitric acid (Solution)

Hazard Class: 8 **Subsidiary Risk:** 5.1 **Packing Group:**

No information available **Marine Pollutant**

EMS: F-A

RID

UN-No: UN2031

Proper Shipping Name: Nitric acid (Solution)

Hazard Class: Subsidiary Risk: 8 + 5.1**Packing Group:** Ш

ICAO

UN2031 UN-No:

Proper Shipping Name: Nitric acid (Solution)

Hazard Class: 8 **Subsidiary Risk:** 5.1 **Packing Group:** Ш

IATA

Product code: N1084

UN-No: UN2031

Proper Shipping Name: Nitric acid (Solution)

14. TRANSPORT INFORMATION

Hazard Class: 8

Subsidiary Risk: No information available

Packing Group: II ERG Code: 8L

Special Provisions No information available

15. REGULATORY INFORMATION

International Inventories

Components	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Nitric acid	Present	Present KE- 25911	Present	Present (1)- 394	Present	Present	Present 231-714-2
Water	Present	Present KE- 35400	Present	Not present	Present	Present	Present 231-791-2

U.S. Regulations

Nitric acid

Massachusetts RTK: Present

Massachusetts EHS: extraordinarily hazardous New Jersey RTK Hazardous Substance List: 1356

New Jersey (EHS) List: 1356 500 lb TPQ

New Jersey - Discharge Prevention - List of Hazardous Substances: Present

New Jersey TCPA - EHS: 15000lbTQ

450lbTQ

Pennsylvania RTK: Environmental hazard

Pennsylvania RTK - Environmental Hazard List Present Michigan PSM HHC: = 500 lb TQ 94.5% by weight or greater

Minnesota - Hazardous Substance List: Present

New York Release Reporting - List of Hazardous Substances:

1000 lb RQ 100 lb RQ

Louisana Reportable Quantity List for Pollutants: 1000lbfinal RQAs listed in 40 CFR 117.3 Table 117.3 and 40 CFR 302.4 Table 302.4 454kgfinal RQAs listed in 40 CFR 117.3 Table 117.3 and 40 CFR 302.4 Table 302.4

1000lbRQAs listed in Louisiana Administrative Code, Title 33, Part 1, Subpart 2, Chapter 39, Subchapter E. Applies to unauthorized emissions based on total mass emitted into or onto all media within any consecutive 24-hour period

100lbRQAs listed in Louisiana Administrative Code, Title 33, Part 1, Subpart 2, Chapter 39, Subchapter E. Applies to unauthorized emissions based on total mass emitted into the atmosphere

California Directors List of Hazardous Substances: Present

Water

New Jersey RTK Hazardous Substance List: Present (listed under fluorides)
Minnesota - Hazardous Substance List: Present (listed under fluorides)

California Directors List of Hazardous Substances: Present (listed under fluorides)

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	Carcinogen			Female Reproductive Toxicity:
Nitric acid	Not Listed	Not Listed	Not Listed	Not Listed
Water	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

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Components	CERCLA - Hazardous	Section 302 Extremely	Section 302 Extremely	Section 313 -	Section 313 - Reporting
	Substances and their	Hazardous	Hazardous	Chemical Category	de minimis
	Reportable Quantities	Substances and TPQs	Substances and RQs		
Nitric acid	1000 lb final RQ	1000 lb TPQ	None	None	1.0 % de minimis
	454 kg final RQ				concentration
Water	None	None	None	None	None

U.S. TSCA

•	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Nitric acid	Not Applicable	Not Applicable
Water	Not Applicable	Not Applicable

Canada

WHMIS hazard class:

C Oxidizing materials

E Corrosive material

Nitric acid

C E including 61.3%, 67.18%, 70% E 0.63%, 6.3%

Water

Uncontrolled product according to WHMIS classification criteria

Canada Controlled Products Regulation:
This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Components	WHMIS Ingredient Disclosure List -
Nitric acid	1 %

Inventory

Components	Canada (DSL)	Canada (NDSL)
Nitric acid	Present	Not Listed
Water	Present	Not Listed

Components	CEPA Schedule I - Toxic Substances		
Nitric acid	Not listed		
Water	Not listed		

Components	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting	
Nitric acid	Not listed	
Water	Not listed	

EU Classification

R-phrase(s)

R35 - Causes severe burns.

R 8 - Contact with combustible material may cause fire.

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S -phrase(s)

S23 - Do not breathe gas/fumes/vapor/spray.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36 - Wear suitable protective clothing.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 1/2 - Keep locked up and out of the reach of children.

Components	Classification	Concentration Limits:	Safety Phrases
Nitric acid	C; R35 O; R8	20%<=C C;R35 5%<=C<20% C;R34 70%<=C O;R8	S1/2 S23 S26 S36 S45
Water		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

C - Corrosive.

O - Oxidising.







16. OTHER INFORMATION

Product code: N1084

16. OTHER INFORMATION

Preparation Date:3/26/2014Revision Date:4/15/2016Prepared by:Sonia Owen

Disclaimer:

Product code: N1084

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet

Product name: NITRIC ACID, TRACEGRADE