

# SAFETY DATA SHEET

**Issue Date** 28-Aug-2018 **Revision Date** 26-Jan-2024 **Version** 2.3 **Page** 1 / 15

### 1. IDENTIFICATION

**Product identifier** 

Product Name Nitric Acid Solution 1:1

Other means of identification

Product Code(s) 254049

Safety data sheet number M00644

UN/ID no UN2031

Recommended use of the chemical and restrictions on use

**Recommended Use** Water Analysis. Laboratory reagent.

Uses advised against Consumer use.

**Restrictions on use** For Laboratory Use Only.

### Details of the supplier of the safety data sheet

#### **Manufacturer Address**

Hach Company, P.O.Box 389, Loveland, CO 80539, USA, +1(970) 669-3050

#### Emergency telephone number

+1(303) 623-5716 - 24 Hour Service

# 2. HAZARDS IDENTIFICATION

### Classification

### **Regulatory Status**

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

Oxidizing liquids	Category 3
Corrosive to metals	Category 1
Acute toxicity - Inhalation (Vapors)	Category 3
Skin corrosion/irritation	Category 1 Sub-category A
Serious eye damage/eye irritation	Category 1

### Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

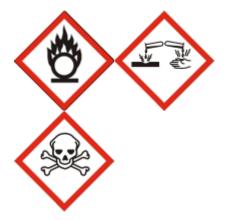
### Signal word

Danger

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#### **Hazard statements**

H272 - May intensify fire; oxidizer

H290 - May be corrosive to metals

H314 - Causes severe skin burns and eye damage

H331 - Toxic if inhaled

#### **Precautionary statements**

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

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

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 plant

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P280 - Wear protective gloves, protective clothing, eye protection, and 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

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/physician

P363 - Wash contaminated clothing before reuse

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P220 - Keep/Store away from clothing/ combustible materials

P221 - Take any precaution to avoid mixing with combustibles

P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

P234 - Keep only in original container

P390 - Absorb spillage to prevent material damage

### Other Hazards Known

None

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Substance

Not applicable

#### **Mixture**

Chemical Family Inorganic Acid.

Chemical nature Inorganic acid in aqueous solution.

#### Percent ranges are used where confidential product information is applicable.

Chemical name	CAS No	Percent Range	HMRIC #
Nitric acid	7697-37-2	30 - 40%	-

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### 4. FIRST AID MEASURES

#### Description of first aid measures

**General advice** Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

**Inhalation** Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical

attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical

advice/attention. Immediate medical attention is required.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present

and easy to do. Continue rinsing. Get immediate medical advice/attention.

**Skin contact** IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water

before removing clothes. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. Get immediate medical advice/attention.

**Ingestion** Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth

to an unconscious person. Do NOT induce vomiting. Get immediate medical

advice/attention.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or

other proper respiratory medical device. Do not breathe vapor or mist.

Most important symptoms and effects, both acute and delayed

**Symptoms** Burning sensation. Coughing and/ or wheezing. Difficulty in breathing.

Indication of any immediate medical attention and special treatment needed

**Note to physicians** Product is a corrosive material. Use of gastric lavage or emesis is contraindicated.

Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood

pressure may occur with moist rales, frothy sputum, and high pulse pressure.

### 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use water. Do not use dry chemicals or foams. CO 2 or Halon may provide limited control.

Flood fire area with water from a distance. Move containers from fire area if you can do it

without risk. Cool containers with flooding quantities of water until well after fire is out.

Unsuitable Extinguishing Media Dry chemical. Foam. Caution: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

These substances will accelerate burning when involved in a fire. Some may decompose explosively when heated or involved in a fire. May ignite combustibles (wood paper, oil, clothing, etc.). Runoff may create fire or explosion hazard. The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating

gases and vapors.

Hazardous combustion products This material will not burn.

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Special protective equipment for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. Do not move cargo or vehicle if cargo has been exposed to heat. Oxidizer. May ignite combustibles (wood paper, oil, clothing, etc.). Move containers from fire area if you can do it without risk. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. ALWAYS stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible withdraw from area and let fire burn.

### 6. ACCIDENTAL RELEASE MEASURES

**U.S. Notice** 

Only persons properly qualified to respond to an emergency involving hazardous substances may respond to a spill according to federal regulations (OSHA 29 CFR 1910.120(a)(v)) and per your company's emergency response plan and guidelines/procedures. See Section 13, Special Instructions for disposal assistance. Outside of the US, only persons properly qualified according to state or local regulations should respond to a spill involving chemicals.

#### Personal precautions, protective equipment and emergency procedures

**Personal precautions** 

Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See section 8 for more information. Stop leak if you can do it without risk. Use personal protective equipment as required. Attention! Corrosive material. Do not breathe vapor or mist.

Other Information

Keep combustibles (wood, paper, oil, etc) away from spilled material. DO NOT GET WATER INSIDE CONTAINERS. Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

### Environmental precautions

**Environmental precautions** 

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Should not be released into the environment. Do not allow to enter into soil/subsoil.

### Methods and material for containment and cleaning up

Methods for containment

Dike far ahead of spill; use dry sand to contain the flow of material. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Stop leak if you can do it without risk.

Methods for cleaning up

Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. With clean shovel place material into clean, dry container and cover loosely; move containers from spill area. Flush area with flooding quantities of water. Prevent product from entering drains. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards

Clean contaminated objects and areas thoroughly observing environmental regulations.

Reference to other sections

See section 8 for more information. See section 13 for more information.

# 7. HANDLING AND STORAGE

### Precautions for safe handling

Advice on safe handling

Use personal protection equipment. Avoid contact with skin, eyes or clothing. Keep away

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from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Handle in accordance with good industrial hygiene and safety practice. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Take off contaminated clothing and wash before reuse. Do not breathe vapor or mist.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly

> labeled containers. Do not store near combustible materials. Protect from moisture. Store locked up. Keep out of the reach of children. Store away from other materials. Store in

accordance with particular national and local regulations.

Not applicable Flammability class

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

### **Exposure Guidelines**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Nitric acid	STEL: 4 ppm	TWA: 2 ppm	IDLH: 25 ppm
CAS#: 7697-37-2	TWA: 2 ppm	TWA: 5 mg/m <sup>3</sup>	TWA: 2 ppm
		(vacated) TWA: 2 ppm	TWA: 5 mg/m <sup>3</sup>
		(vacated) TWA: 5 mg/m <sup>3</sup>	STEL: 4 ppm
		(vacated) STEL: 4 ppm	STEL: 10 mg/m <sup>3</sup>
		(vacated) STEL: 10 mg/m <sup>3</sup>	

#### Appropriate engineering controls

**Engineering Controls** 

Showers

Eyewash stations

Ventilation systems. Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Individual protection measures, such as personal protective equipment

Respiratory protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. Ensure adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

**Hand Protection** 

Wear suitable gloves. Impervious gloves. Barrier creams may help to protect the exposed areas of skin. Gloves must be inspected prior to use. The selected protective gloves have to satisfy the specifications of EU Directive 2016/425 and the standard EN 374 derived from it. Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN

374-1:2016.

Eye/face protection Face protection shield.

Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Wear Skin and body protection

fire/flame resistant/retardant clothing. Avoid contact with eyes, skin and clothing.

**General Hygiene Considerations** 

Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

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Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing. Do not breathe vapor or mist.

**Environmental exposure controls** 

Local authorities should be advised if significant spillages cannot be contained. Do not allow into any sewer, on the ground or into any body of water.

Thermal hazards

None under normal processing.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state

**Property** 

pН

Liquid

Appearance

aqueous solution

Color

colorless

Odor Suffocating

Odor threshold No data available

Remarks • Method

Molecular weight

Values

Not applicable

< 0.5

@ 20 °C

Melting point / freezing point

~ -12 °C / 10.4 °F

Initial boiling point and boiling range

112 °C / 233.6 °F

**Evaporation rate** 

0.21 (water = 1)

Vapor pressure

3.3 mm Hg  $\,/\,$  0.44 kPa at 25 °C  $\,/\,$  77 °F

Relative vapor density

1.03

Specific gravity - VALUE 1

1.255

**Partition coefficient** 

No data available

Soil Organic Carbon-Water Partition

No data available

Coefficient

No data available

**Decomposition temperature** 

**Autoignition temperature** 

No data available

Dynamic viscosity

1.569 cP (mPa s) at 25 °C / 77 °F

Kinematic viscosity

1.25 cSt (mm<sup>2</sup>/s) at 25 °C / 77 °F

Solubility(ies)

#### Water solubility

Water solubility classification	Water solubility_	Water Solubility Temperature
Soluble	> 1000 mg/L	25 °C / 77 °F

#### Solubility in other solvents

Chemical Name	Solubility classification	Solubility	Solubility Temperature_
Acid	Soluble	> 1000 mg/L	25 °C / 77 °F

#### Other information

#### **Metal Corrosivity**

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Classified as corrosive to metal according to GHS criteria

Steel Corrosion Rate Aluminum Corrosion Rate > 6.25 mm/yr / > 0.25 in/yr

No data available

### **Volatile Organic Compounds (VOC) Content**

Chemical name	CAS No	Volatile organic compounds (VOC) content	CAA (Clean Air Act)
Nitric acid	7697-37-2	Not applicable	1

### **Explosive properties**

Upper explosion limitNot applicableLower explosion limitNot applicable

Flammable properties

Flash point No data available

Flammability Limit in Air

Upper flammability limit:No data availableLower flammability limit:No data available

Oxidizing properties Classified as an oxidizer according to GHS criteria.

Bulk density Not applicable

# 10. STABILITY AND REACTIVITY

#### Reactivity

Oxidizer. Corrosive to metal.

### Chemical stability

May cause fire or explosion; strong oxidizer.

### **Explosion data**

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge Yes.

### Possibility of hazardous reactions

None under normal processing.

#### **Hazardous polymerization**

Hazardous polymerization does not occur.

#### **Conditions to avoid**

Heat, flames and sparks. Incompatible materials. Exposure to air or moisture over prolonged periods. Excessive heat.

### Incompatible materials

organic material. Combustible material. Hydrocarbons. Oxidizing agent. Acids. Bases. Solvent.

#### Hazardous decomposition products

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

# 11. TOXICOLOGICAL INFORMATION

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### Information on likely routes of exposure

#### **Product Information**

**Inhalation** Corrosive by inhalation. Inhalation of corrosive fumes/gases may cause coughing, choking,

headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs.

Pulmonary edema can be fatal. Toxic by inhalation.

Eye contact Causes burns. Corrosive to the eyes and may cause severe damage including blindness.

Causes serious eye damage. May cause irreversible damage to eyes.

**Skin contact** Corrosive. Causes severe burns. Avoid contact with skin and clothing.

**Ingestion** Causes burns. Ingestion causes burns of the upper digestive and respiratory tracts. May

cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung

damage if swallowed. May be fatal if swallowed and enters airways.

**Symptoms** Redness. Burning. May cause blindness. Coughing and/ or wheezing. Difficulty in breathing.

Acute toxicity
Toxic if inhaled

**Mixture** 

No data available.

**Ingredient Acute Toxicity Data** 

Test data reported below.

Inhalation (Vapor) Exposure Route

### **Unknown Acute Toxicity**

0% of the mixture consists of ingredient(s) of unknown toxicity.

### **Acute Toxicity Estimations (ATE)**

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

ATEmix (oral)	No information available
ATEmix (dermal)	No information available
ATEmix (inhalation-dust/mist)	No information available
ATEmix (inhalation-vapor)	8.72 mg/l
ATEmix (inhalation-gas)	No information available

### Skin corrosion/irritation

Causes severe burns.

#### **Mixture**

No data available.

### Ingredient Skin Corrosion/Irritation Data

Test data reported below.

Chemical name	Test method	Species	Reported	Exposure	Results	Key literature
			dose	time		references and

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						sources for data
Nitric acid (30 - 40%) CAS#: 7697-37-2	Existing human experience	Human	None reported N	None reported	Corrosive to skin	ERMA

### Serious eye damage/irritation

Classification based on data available for ingredients. Causes burns. Risk of serious damage to eyes.

#### **Mixture**

No data available.

### Ingredient Eye Damage/Eye Irritation Data

Test data reported below.

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Nitric acid (30 - 40%) CAS#: 7697-37-2	Existing human experience	Human	None reported	None reported	Corrosive to eyes	ERMA

### Respiratory or skin sensitization

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

#### **Mixture**

No data available.

### **Ingredient Sensitization Data**

No data available.

### STOT - single exposure

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

### **Mixture**

No data available.

### Ingredient Specific Target Organ Toxicity Single Exposure Data

Test data reported below.

### **Dermal Exposure Route**

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Nitric acid	Rat	226500 mg/kg	None reported	Blood	RTECS
(30 - 40%)	$TD_Lo$			Methemoglobinemia-Carboxyhe	
CAS#: 7697-37-2				moglobin	

### Inhalation (Vapor) Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Nitric acid (30 - 40%) CAS#: 7697-37-2	Rat TC∟₀	460 mg/L	1 hours	Nutritional and Gross Metabolic Weight loss or decreased weight gain	RTECS

# STOT - repeated exposure

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

### Mixture

No data available.

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# Ingredient Specific Target Organ Toxicity Repeat Exposure Data

Test data reported below.

### **Inhalation (Vapor) Exposure Route**

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Nitric acid (30 - 40%) CAS#: 7697-37-2	Rat TC⊾₀	0.001071 mg/L	84 days	Behavioral Muscle contraction or spasticity Biochemical Enzyme inhibition, induction, or change in blood or tissue levels (true cholinesterase) Kidney, Ureter, or Bladder	
				Other changes in urine composition	

### Carcinogenicity

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

#### **Mixture**

No data available.

### **Ingredient Carcinogenicity Data**

No data available.

Chemical name	CAS No	ACGIH	IARC	NTP	OSHA
Nitric acid	7697-37-2	-	Group 1	-	Χ
			Group 2A		

### Legend

ACGIH (American Conference of Governmental Industrial Hygienists)	Does not apply
IARC (International Agency for Research on Cancer)	Group 2A - Probably Carcinogenic to
	Humans
	Group 1 - Carcinogenic to Humans
NTP (National Toxicology Program)	Does not apply
OSHA	X - Present

### Germ cell mutagenicity

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

### Mixture invitro Data

No data available.

# Substance invitro Data

No data available.

# Mixture invivo Data

No data available.

### Substance invivo Data

No data available.

# Reproductive toxicity

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

#### **Mixture**

No data available.

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### **Ingredient Reproductive Toxicity Data**

Test data reported below.

### **Oral Exposure Route**

ſ	Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
L		type	dose	time		sources for data
Ī	Nitric acid	Rat	21150 mg/kg	21 days	Effects on Embryo or Fetus	RTECS
1	(30 - 40%)	$TD_Lo$			Fetotoxicity (except death e.g.	
	CAS#: 7697-37-2				stunted fetus)	

#### **Aspiration hazard**

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

# 12. ECOLOGICAL INFORMATION

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

Unknown aquatic toxicity 0% of the mixture consists of components(s) of unknown hazards to the aquatic

environment.

**Mixture** 

**Aquatic Acute Toxicity** 

No data available.

**Aquatic Chronic Toxicity** 

No data available.

**Substance** 

**Aquatic Acute Toxicity** 

No data available.

**Aquatic Chronic Toxicity** 

No data available.

Persistence and degradability

**Mixture** 

No data available.

Bioaccumulation

MATERIAL DOES NOT BIOACCUMULATE

Mixture

No data available.

Partition coefficient No data available

**Mobility** 

Soil Organic Carbon-Water Partition Coefficient No data available

Other adverse effects
No information available

# 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

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Waste from residues/unused

products

Should not be released into the environment. Dispose of in accordance with local

regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

US EPA Waste Number D001, D002

Special instructions for disposal Work in

Work in an approved fume hood. Working in a large container, cautiously add small portions of the material to cold water with agitation. Do not breathe the fumes. Adjust to a pH between 6 and 9 with an alkali, such as soda ash or sodium bicarbonate. Open cold water tap completely, slowly pour the reacted material to the drain.

### 14. TRANSPORT INFORMATION

DOT

UN/ID no UN2031 Proper shipping name Nitric Acid

Transport hazard class(es) 8
Packing Group | |

Reportable Quantity (RQ) Nitric acid: RQ kg= 1146.49

**Special Provisions** Contact with acids forms toxic fumes.

Emergency Response Guide 1

Number

157

**TDG** 

UN/ID no UN2031 Proper shipping name Nitric Acid

Transport hazard class(es) 8
Packing Group | |

<u>IATA</u>

UN number or ID number UN2031
Proper shipping name UN2031

Transport hazard class(es) 8
Packing group II
ERG Code 8L

**IMDG** 

UN number or ID number UN2031
Proper shipping name UN2031
Nitric acid

Transport hazard class(es) 8
Packing Group | |

**EmS-No** F-A, S-Q

### **Additional information**

There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods. If the item is not in a reagent set or kit, the classification given above applies.

If the item is part of a reagent set or kit the classification would change to the following:

UN3316 Chemical Kit, Hazard Class 9, Packing Group II or III.

If the item is not regulated, the Chemical Kit classification does not apply.

### 15. REGULATORY INFORMATION

**National Inventories** 

TSCA Complies
DSL/NDSL Complies

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory **DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

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**International Inventories** 

Complies **EINECS/ELINCS ENCS** Complies **IECSC** Complies **KECL** Complies Complies **PICCS** Complies **TCSI AICS** Complies **NZIoC** Complies

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

TCSI - Taiwan Chemical Substances Inventory

**AICS** - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

### **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %
Nitric acid (CAS #: 7697-37-2)	1.0

#### SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Nitric acid 7697-37-2	1000 lb	-	-	X

### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Nitric acid	1000 lb	1000 lb	RQ 1000 lb final RQ
7697-37-2			RQ 454 kg final RQ

# U.S. - Department of Homeland Security - Chemical Facility Anti-Terrorism Standards (CFATS) - Security Issues

Chemical name	U.S Department of Homeland Security - Chemical Facil	
	Anti-Terrorism Standards (CFATS) - Security Issues	
Nitric acid	Release - Toxic; Theft - Explosives/Improvised Explosive Device	
(30 - 40%)	Precursors	
CAS#: 7697-37-2		

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### **US State Regulations**

### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

IMERC: Not applicable

### U.S. State Right-to-Know Regulations

This product may contain substances regulated by state right-to-know regulations.

Chemical name	New Jersey	Massachusetts	Pennsylvania
Nitric acid	X	X	X
7697-37-2			

#### **U.S. EPA Label Information**

### 16. OTHER INFORMATION. INCLUDING DATE OF PREPARATION OF THE LAST REVISION

#### **Special Comments**

None

#### **Additional information**

#### Global Automotive Declarable Substance List (GADSL)

Not applicable

#### NFPA and HMIS Classifications

NF	PA	Health hazards - 4	Flammability - 0	Instability - 1	Physical and chemical properties OX
HI	/IIS	Health hazards - 3	Flammability - 0	Physical hazards - 1	Personal protection -
			-	-	X
					-1

### Key or legend to abbreviations and acronyms used in the safety data sheet

**ACGIH** ACGIH (American Conference of Governmental Industrial Hygienists) ATSDR (Agency for Toxic Substances and Disease Registry) **ATSDR CCRIS** CCRIS (Chemical Carcinogenesis Research Information System)

CDC (Center for Disease Control) CDC

CEPA (Canadian Environmental Protection Agency) **CEPA** 

CICAD (Concise International Chemical Assessment Documents) CICAD

**ECHA** ECHA (The European Chemicals Agency) EEA EEA (European Environment Agency) **EPA** EPA (Environmental Protection Agency)

ERMA (New Zealands Environmental Risk Management Authority) **ERMA** 

**ECOSARS** Estimation through ECOSARS v1.11 part of the Estimation Programs Interface (EPI) Suite™

FDA (Food & Drug Administration) **FDA** 

**GESTIS** GESTIS (Information System on Hazardous Substances of the German Social Accident

Insurance)

HSDB (Hazardous Substances Data Bank) **HSDB** 

INERIS (The National Industrial Environment and Risks Institute) **INERIS IPCS INCHEM** IPCS INCHEM (International Programme on Chemical Safety) IUCLID (The International Uniform Chemical Information Database) **IUCLID** NITE Japan National Institute of Technology and Evaluation (NITE)

NIH (National Institutes of Health) NIH

NIOSH NIOSH (National Institute for Occupational Safety and Health) LOLI LOLI (List of Lists - An International Chemical Regulatory Database)

NDF no data

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NICNAS Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH IDLH Immediately Dangerous to Life or Health

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

PEEN (Pan European Ecological Network)

RTECS (Registry of Toxic Effects of Chemical Substances)
SIDS (Screening Information Dataset) for High Volume Chemicals

SYKE The Finnish Environment Institute (SYKE)
USDA USDA (United States Department of Agriculture)
USDC USDC (United States Department of Commerce)

WHO (World Health Organization)

### Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

MAC Maximum Allowable Concentration Ceiling Ceiling Limit Value

X Listed Vacated These values have no official status. The only

binding levels of contaminants are those listed in the final OSHA PEL. These lists are for reference purposes only. Please note that some reference state regulations of these "liberated" exposure limits in their state

regulations.

SKN\* Skin designation SKN+ Skin sensitization
RSP+ Respiratory sensitization \*\* Hazard Designation
C Carcinogen R Reproductive toxicant

M mutagen

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Revision Note None

#### **Disclaimer**

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

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**End of Safety Data Sheet** 

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