

Safety Data Sheet

According to Hazardous Products Regulation (SOR/2015-17)

Revision date: 28.03.2020	Version: 6.3	Print date: 28.03.2020	
SECTION 1: Identification			

Product identifier

Nitric acid ACS 62786 none/none 7697-37-2

Relevant identified uses of the substance or mixture and uses advised against

Recommended Use:	For Further Manufacturing Use Only
Uses advised against:	Not for Human or Animal Drug Use

Details of the supplier of the safety data sheet

Supplier

VWR International
Street
Postal code/City

Telephone Telefax: 2360 Argentia Road Mississauga, Ontario Canada L5N 5Z7 +1-800-932-5000 toll-free within US/Canada +1-610-728-2103





Emergency phone number

Telephone

+1-613-996-6666 (Canutec, 24 hrs/day, 7 days/week, Canada)

Preparation Information

VWR International - Product Information Compliance

E-mail

sds@vwr.com

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

Classification according to Hazardous Products Regulation (SOR/2015-17)

Hazard classes and hazard categories	Hazard statements
Oxidising liquid, category 3	H272
Substance or mixture corrosive to metals, category 1	H290
Skin corrosion, category 1A	H314

2.2 Label elements

Labelling in accordance with (SOR/2015-17)

Hazard pictograms



Signal word: Danger

Hazard statements	
H272	May intensify fire; oxidiser.
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.

Precautionary	
Statements	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P310	IF exposed or concerned: Immediately call a POISON CENTER/doctor.

Hazards not otherwise classified (HNOC) none/none





SECTION 3: Composition / information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

Hazardous ingredients GHS Classification in accordance with (SOR/2015-17)

Substance name	Concentration	Identifier	Hazard classes and hazard categories
Nitric acid	65 - 70%	CAS No.: 7697-37-2	Ox. Liq. 2 - H272 Met. Corr. 1 - H290
			Acute Tox. 3 - H331
			Skin Corr. 1A - H314

SECTION 4: First aid measures

4.1 General information

IF exposed: Immediately call a POISON CENTER/doctor. If unconscious place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Change contaminated, saturated clothing. Do not leave affected person unattended.

In case of inhalation

Immediately call a POISON CENTER/doctor. Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. Immediate medical treatment required because corrosive injuries that are not treated are hard to cure.

After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing.

In case of ingestion

Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. Rinse mouth thoroughly with water. Give nothing to eat or drink.

4.2 Most important symptoms/effects, acute and delayed

no data available

4.3 Indication of any immediate medical attention and special treatment needed

no data available

4.4 Self-protection of the first aider

First aider: Pay attention to self-protection!

4.5 Information to physician

no data available





SECTION 5: Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing media The product itself does not burn. May intensify fire; oxidiser. Co-ordinate fire-fighting measures to the fire surroundings.

Extinguishing media which must not be used for safety reasons no restriction

5.2 Specific hazards arising from the chemical

In case of fire may be liberated: Nitrogen oxides (NOx)

5.3 Advice for firefighters

DO NOT fight fire when fire reaches explosives. Protective equipment and precautions for firefighters Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Do not allow run-off from fire-fighting to enter drains or water courses. Do not inhale explosion and combustion gases. Use water spray/stream to protect personnel and to cool endangered containers. In case of fire: Evacuate area.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe gas/vapor/spray. Provide adequate ventilation. Use personal protection equipment. In case of major fire and large quantities: Remove persons to safety. Wear a self-contained breathing apparatus and chemical protective clothing.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. Make sure spills can be contained, e.g. in sump pallets or kerbed areas. Discharge into the environment must be avoided.

6.3 Methods and material for containment and cleaning up

Spilled product must never be returned to the original container for recycling. Clean contaminated articles and floor according to the environmental legislation. Collect in closed and suitable containers for disposal.

6.4 Additional information

Clear spills immediately.





SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid:

Inhalation

Avoid contact with eyes and skin.

Use extractor hood (laboratory).

If handled uncovered, arrangements with local exhaust ventilation have to be used.

If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. Protect from moisture.

7.2 Conditions for safe storage, including any incompatibilities

Recommended storage temperature: 15-25 °C

Keep container tightly closed and in a well-ventilated place.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredient (Designation)	Regulatory information	Country	Limit value type (country of origin)	Limit value
Nitric acid	CNESST	CA	VECD	10 mg/m³ - 4 ppm
Nitric acid	CNESST	CA	VEMP	5.2 mg/m ³ - 2 ppm

8.2 Engineering controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. If handled uncovered, arrangements with local exhaust ventilation have to be used.

Personal protection equipment (PPE)

Wear suitable protective clothing. When handling with chemical substances, protective clothing must be worn.

Eye/face protection

Eye glasses with side protection

Skin protection

Wear suitable gloves. When handling with chemical substances, protective gloves must be worn. In the case of wanting to use the gloves again, clean them before taking off and air them well. Check leak tightness/impermeability prior to use.





By short-term hand contact

Suitable material: Thickness of the glove material: Breakthrough time (maximum wearing time):

By long-term hand contact Suitable material: Thickness of the glove material: Breakthrough time (maximum wearing time): Butyl caoutchouc (butyl rubber) 0,30 mm 60-120 min

Butyl caoutchouc (butyl rubber)/FKM (fluoro rubber) 0,70 mm 240-480 min

Respiratory protection

Respiratory protection necessary at: aerosol or mist formation If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn.

Additional information

Wash hands before breaks and after work. Avoid contact with eyes and skin. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

Environmental exposure controls no data available





SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

(a) Appearance	
Physical state:	liquid
Color:	no data available
(b) Odour:	no data available
(c) Odour threshold:	no data available

Safety relevant basic data

no data available
no data available
not applicable
no data available
1.41 g/cm ³ (20 °C)
no data available
no data available
no data available
not applicable
May intensify fire; oxidiser.

9.2 Other information

Bulk density:
Refraction index:
Dissociation constant:
Surface tension:
Henry's Law Constant:

no data available no data available no data available no data available no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Oxidising agent, strong Corrosive to metals





10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

Explosive when mixed with combustible material. Explosive reaction with: Alkali metals Alkaline earth metal Alkali (lye) Substance, organic Reducing agent Peroxides Oil Violent reaction with: light metals Powdered metals Formation of: Hydrogen Exothermic reaction with:

Water

10.4 Conditions to avoid

Humidity Heat

10.5 Incompatible materials

Metal

10.6 Hazardous decomposition products

no data available

10.7 Additional information

no data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute effects

Acute oral toxicity: Nitric acid - LDLo: > 430 mg/kg - Human - (Sax)

Acute dermal toxicity: no data available

Acute inhalation toxicity: Nitric acid - LC50: > 2.65 mg/l (4 h) - Rat - (OECD 403)





Irritant and corrosive effects

Primary irritation to the skin: Causes severe skin burns and eye damage.

Irritation to eyes: Causes serious eye damage.

Irritation to respiratory tract: not applicable

Respiratory or skin sensitization

In case of skin contact: not sensitising In case of inhalation: not sensitising

STOT-single exposure

not applicable

STOT-repeated exposure

not applicable

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

no data available	ACGIH	IARC	NTP	OSHA

Germ cell mutagenicity

No indications of human germ cell mutagenicity exist.

Reproductive toxicity

No indications of human reproductive toxicity exist.

Aspiration hazard

not applicable

Other adverse effects

no data available





Additional information

no data available

SECTION 12: Ecological information

12.1 Ecotoxicity

Fish toxicity: no data available

Daphnia toxicity: no data available

Algae toxicity: no data available

Bacteria toxicity: no data available

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water: no data available

12.4 Mobility in soil:

no data available

12.5 Results of PBT/vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Other adverse effects

no data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Appropriate disposal / Product

Dispose according to legislation. Consult the appropriate local waste disposal expert about waste disposal.

Waste code product: no data available

Appropriate disposal / Package

Dispose according to legislation. Handle contaminated packages in the same way as the substance itself.

Additional information

no data available





SECTION 14: Transport information

Land transport (TDG)

UN-No.:	2031
Proper Shipping Name:	NITRIC ACID
Class(es):	8 (5.1)
Packing group:	П
Environmental hazards:	No
Marine pollutant:	No
Special precautions for user:	

Sea transport (IMDG)

UN-No.:	2031			
Proper Shipping Name:	NITRIC ACID			
Class(es):	8 (5.1)			
Classification code:				
Hazard label(s):	8+5.1			
Packing group:	II			
Environmental hazards:	No			
Marine pollutant:	No			
Special precautions for user:				
Segregation group:	1			
EmS-No.	F-A S-Q			
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code not relevant				

Air transport (ICAO-TI / IATA-DGR)

UN-No.: Proper Shipping Name: Class(es):	2031 NITRIC ACID 8 (5.1)
Classification code:	
Hazard label(s):	8+5.1
Packing group:	II
Special precautions for user:	

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Domestic Substance List:





SECTION 16: Other information

Abbreviations and acronyms

ACGIH - American Conference of Governmental Industrial Hygiensts DOT - Department of Transportation IARC - International Agency for Research on Cancer IATA-DGR - International Air Transport Association-Dangerous Goods Regulations ICAO-TI - International Civil Aviation Organization-Technical Instructions IMDG - International Maritime Code for Dangerous Goods LTV - Long Term Value NIOSH - National Institute for Occupational Safety and Health NTP - National Toxicology Program OSHA - Occupational Safety & Health Administration PBT - Persistent, Bioaccumulative and Toxic PEL - Permissible Exposure Limit STV - Short Term Value SVHC - Substances of Very High Concern **TDG - Transport of Dangerous Goods** TLV - Threshold Limit Value vPvB - very Persistent, very Bioaccumulative

Additional information

Indication of changes: general update

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guidance. The information in this document is based on the present state knowledge and is applicable to the product with regard to appropriate safty precautions. It does not represent any guarantee of the properties of the product. VWR International and his Affiliates shall not be held liable for any damage resulting from handling.

