Safety Data Sheet

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Product Name • **Nitric Acid**

Synonyms • Aqua Fortis; Aqueous Nitric Acid Solution; Azotic Acid; Hydrogen Nitrate

CAS Number • 7697-37-2

Product Code • 70034

EC Number • 231-714-2

Chemical Category • Nitrate Compounds

Molecular Formula • :H 1:N 1:O 3:

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

Relevant identified use(s) • Industrial uses

1.3 Details of the supplier of the safety data sheet

Manufacturer • Air Liquide

2700 Post Oak Blvd.
Houston, TX 77056
United States
www.us.airliquide.com
sds@airliquide.com

Telephone (Technical) • 713-896-2896

Telephone (Technical) • 800-819-1704

1.4 Emergency telephone number

Manufacturer • 800-424-9300 - CHEMTREC

Manufacturer • +1 703-527-3887 - Outside United States

Section 2: Hazards Identification

EU/EEC

According to Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]
According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

2.1 Classification of the substance or mixture

CLP • Oxidizing Liquids 3 - H272
Skin Corrosion 1A - H314

DSD/DPD • Oxidizing (O)
Corrosive (C)

R8, R35

2.2 Label Elements

CLP

DANGER

Hazard statements
- H314 - Causes severe skin burns and eye damage
H272 - May intensify fire; oxidizer

Precautionary statements

Prevention
- P210 - Keep away from heat.
P220 - Keep/Store away from clothing and other combustible materials.
P221 - Take any precaution to avoid mixing with combustibles
P260 - Do not breathe mist/vapours/spray.
P264 - Wash thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response
- P370+P378 - In case of fire: Use appropriate media for extinction.
P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P321 - Specific treatment, see supplemental first aid information.
P363 - Wash contaminated clothing before reuse.
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.
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Storage/Disposal
- P405 - Store locked up.
P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

DSD/DPD

Risk phrases
- R8 - Contact with combustible material may cause fire.
R35 - Causes severe burns.

Safety phrases
- S37 - Wear suitable gloves.
S36 - Wear suitable protective clothing.
S39 - Wear eye/face protection.
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

2.3 Other Hazards

CLP
- According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

DSD/DPD
- This product is considered dangerous according to the European Directive 67/548/EEC.

United States (US)

According to OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

OSHA HCS 2012
- Oxidizing Liquids 3 - H272
Skin Corrosion 1A - H314
Serious Eye Damage 1 - H318

2.2 Label elements

OSHA HCS 2012

DANGER

Hazard statements
- May intensify fire; oxidizer - H272
  Causes severe skin burns and eye damage - H314
  Causes serious eye damage - H318

Precautionary statements

Prevention
- Keep away from heat. - P210
  Keep/Store away from clothing and other combustible materials. - P220
  Take any precaution to avoid mixing with combustibles - P221
  Do not breathe mist/vapours/spray. - P260
  Wash thoroughly after handling. - P264
  Wear protective gloves/protective clothing/eye protection/face protection. - P280

Response
- In case of fire: Use appropriate media for extinction. - P370+P378
  IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. - P304+P340
  IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. - P303+P361+P353
  Specific treatment, see supplemental first aid information. - P321
  Wash contaminated clothing before reuse. - P363
  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. - P305+P351+P338
  Immediately call a POISON CENTER or doctor/physician. - P310
  IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. - P301+P330+P331

Storage/Disposal
- Store locked up. - P405
  Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. - P501

2.3 Other hazards

OSHA HCS 2012
- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Canada

According to WHMIS

2.1 Classification of the substance or mixture

WHMIS
- Oxidizing - C
  Corrosive - E

2.2 Label elements

WHMIS

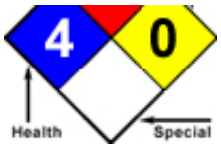
- Oxidizing - C
  Corrosive - E

2.3 Other hazards

WHMIS
- In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

2.4 Other information

NFPA



Section 3 - Composition/Information on Ingredients

3.1 Substances

Composition					
Chemical Name	**Identifiers**	**%**	**LD50/LC50**	**Classifications According to Regulation/Directive**	**Comments**
Nitric acid	**CAS:**7697-37-2 **EC Number:**231-714-2	40% TO 70%	Inhalation-Rat LC50 • 67 ppm 4 Hour(s)	**EU DSD/DPD:** Annex I - C; R35 O; R8 **EU CLP:** Annex VI: Ox. Liq. 3; Skin Corr. 1A; H272; H314 **OSHA HCS 2012:** Skin Corr. 1A; Eye Dam. 1; Ox. Liq. 3	NDA

3.2 Mixtures

- Material does not meet the criteria of a mixture in accordance with Regulation (EC) No 1272/2008.

Section 4 - First Aid Measures

4.1 Description of first aid measures

Inhalation

- Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. Do not use mouth-to-mouth method if victim 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. Get medical attention immediately.

Skin

- For minor skin contact, avoid spreading material on unaffected skin. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Remove and isolate contaminated clothing. Get medical attention immediately.

Eye

- Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. Get medical attention immediately.

Ingestion

- If swallowed, rinse mouth with water (only if the person is conscious) Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Give plenty of water to drink. Do not use mouth-to-mouth method if victim ingested the substance. Obtain medical attention immediately if ingested.

4.2 Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician

- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media
- LARGE FIRES: Dry chemical, CO2, alcohol-resistant foam or water spray.
SMALL FIRES: Dry chemical, CO2 or water spray.

Unsuitable Extinguishing Media
- No data available

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards
- Containers may explode when heated.
Acid reacts with most metals to release hydrogen gas, which can form explosive mixtures with air.
May explode from heat or contamination.
May ignite combustibles (wood, paper, oil, clothing, etc.)
Some may decompose explosively when heated or involved in a fire.
These substances will accelerate burning when involved in a fire.

Hazardous Combustion Products
- Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive fumes.

5.3 Advice for firefighters

- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.
Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.
Wear positive pressure self-contained breathing apparatus (SCBA).
SMALL FIRES: Move containers from fire area if you can do it without risk.
Runoff from fire control may cause pollution.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions
- Ventilate enclosed areas. Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Emergency Procedures
- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Do not get water inside container.

6.2 Environmental precautions

- Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures
- Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
Dike to collect large liquid spills.
A vapor suppressing foam may be used to reduce vapors.
Use water spray to reduce vapors or divert vapor cloud drift.
Neutralize residue with neutralizing agent appropriate for acidic materials. Test area with litmus paper to ensure neutralization is complete.

6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling
- Handle and open container with care. Use only with adequate ventilation. Keep away from heat, sparks, and flame. Use caution when combining with water; DO NOT add water to corrosive liquid, ALWAYS add corrosive liquid to water while stirring to prevent release of heat, steam and fumes. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe mist, vapours, spray. Do not get in

eyes, on skin, or on clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

7.2 Conditions for safe storage, including any incompatibilities

Storage

- Keep container tightly closed. Store in a cool/low-temperature, well-ventilated dry place away from heat and ignition sources. Keep away from incompatible materials. Inspect all incoming containers before storage, to ensure containers are properly labeled and not damaged.

7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

Exposure Limits/Guidelines						
	Result	**ACGIH**	**Canada Ontario**	**Canada Quebec**	**Europe**	**France**
Nitric acid (7697-37-2)	STELs	4 ppm STEL	4 ppm STEL	4 ppm STEV; 10 mg/m3 STEV	1 ppm STEL; 2.6 mg/m3 STEL	1 ppm STEL [VLCT] (indicative limit); 2.6 mg/m3 STEL [VLCT] (indicative limit)
	TWAs	2 ppm TWA	2 ppm TWA	2 ppm TWAEV; 5.2 mg/m3 TWAEV	Not established	Not established

Exposure Limits/Guidelines (Con't.)						
	Result	**Germany TRGS**	**Ireland**	**Israel**	**Italy**	**NIOSH**
Nitric acid (7697-37-2)	STELs	Not established	1 ppm STEL; 2.6 mg/m3 STEL	4 ppm STEL	1 ppm STEL; 2.6 mg/m3 STEL	4 ppm STEL; 10 mg/m3 STEL
	TWAs	1 ppm TWA AGW (exposure factor 1); 2.6 mg/m3 TWA AGW	Not established	2 ppm TWA	Not established	2 ppm TWA; 5 mg/m3 TWA

Exposure Limits/Guidelines (Con't.)						
	Result	**OSHA**	**OSHA Vacated**	**Portugal**	**Spain**	**Sweden**
Nitric acid (7697-37-2)	STELs	Not established	4 ppm STEL; 10 mg/m3 STEL	4 ppm STEL [VLE-CD	1 ppm STEL [VLA-EC]; 2.6 mg/m3 STEL [VLA-EC]	5 ppm STV; 13 mg/m3 STV
	TWAs	2 ppm TWA; 5 mg/m3 TWA	2 ppm TWA; 5 mg/m3 TWA	2 ppm TWA [VLE-MP]	Not established	2 ppm LLV; 5 mg/m3 LLV

8.2 Exposure controls

Engineering Measures/Controls

- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal Protective Equipment

Respiratory

- Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face

- Wear chemical splash safety goggles.

Skin/Body

- Wear appropriate gloves.

Environmental Exposure Controls

- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene
LLV = Limit Level Value is the exposure limit for 8-hour work day
NIOSH = National Institute of Occupational Safety and Health
OSHA = Occupational Safety and Health Administration
STEV = Short Term Exposure Value
STEL = Short Term Exposure Limits are based on 15-minute exposures
TWAEV = Time-Weighted Average Exposure Value
TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Colorless to yellowish, corrosive liquid with an acrid odor.
Color	Colorless to yellowish.	Odor	Acrid
Odor Threshold	Data lacking		
General Properties			
Boiling Point	121 C(249.8 F)	Melting Point	-42 C(-43.6 F)
Decomposition Temperature	Data lacking	pH	< 1
Specific Gravity/Relative Density	1.41 Water=1	Water Solubility	Miscible
Viscosity	Data lacking	Explosive Properties	Data lacking
Oxidizing Properties:	Data lacking		
Volatility			
Vapor Pressure	7 mmHg (torr)	Vapor Density	2.17 Air=1
Evaporation Rate	Data lacking		
Flammability			
Flash Point	Not relevant	UEL	Not relevant
LEL	Not relevant	Autoignition	Not relevant
Flammability (solid, gas)	Data lacking		
Environmental			
Octanol/Water Partition coefficient	-2.3 Kow		

9.2 Other Information

- No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity

10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

- Stable

10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

10.4 Conditions to avoid

- Excess heat, sparks, open flame.

10.5 Incompatible materials

- Nitric Acid is incompatible with combustible materials, readily oxidizable materials, organic solvents, metal powders, carbides, cyanides, sulfides, and alkalis.

10.6 Hazardous decomposition products

- Thermal decomposition of Nitric Acid can generate nitrogen oxides.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

	CAS	
Nitric Acid	7697-37-2	**Acute Toxicity:** Inhalation-Rat LC50 • 130 mg/m³ 4 Hour(s); **Reproductive:** Ingestion/Oral-Rat TDLo • 2345 mg/kg (18D preg); *Reproductive Effects:Effects on Newborn*:**Biochemical and metabolic**

GHS Properties	Classification
Acute toxicity	**EU/CLP** • Classification criteria not met **OSHA HCS 2012** • Classification criteria not met
Aspiration Hazard	**EU/CLP** • Classification criteria not met **OSHA HCS 2012** • Classification criteria not met
Carcinogenicity	**EU/CLP** • Classification criteria not met **OSHA HCS 2012** • Classification criteria not met
Germ Cell Mutagenicity	**EU/CLP** • Classification criteria not met **OSHA HCS 2012** • Classification criteria not met
Skin corrosion/Irritation	**EU/CLP** • Skin Corrosion 1A **OSHA HCS 2012** • Skin Corrosion 1A
Skin sensitization	**EU/CLP** • Classification criteria not met **OSHA HCS 2012** • Classification criteria not met
STOT-RE	**EU/CLP** • Classification criteria not met **OSHA HCS 2012** • Classification criteria not met
STOT-SE	**EU/CLP** • Classification criteria not met **OSHA HCS 2012** • Classification criteria not met
Toxicity for Reproduction	**EU/CLP** • Classification criteria not met **OSHA HCS 2012** • Classification criteria not met
Respiratory sensitization	**EU/CLP** • Classification criteria not met **OSHA HCS 2012** • Classification criteria not met
Serious eye damage/Irritation	**EU/CLP** • Classification criteria not met **OSHA HCS 2012** • Serious Eye Damage 1

Potential Health Effects

Inhalation

Acute (Immediate)
- May cause corrosive burns - irreversible damage.

Chronic (Delayed)
- Repeated or prolonged exposure to corrosive fumes may cause bronchial irritation with chronic cough.

Skin

Acute (Immediate)
- Causes severe skin burns and eye damage.

Chronic (Delayed)
- Repeated or prolonged exposure to corrosive materials will cause dermatitis.

Eye

Acute (Immediate)
- Causes serious eye damage.

Chronic (Delayed)
- Repeated or prolonged exposure to corrosive materials or fumes may cause

conjunctivitis.

Ingestion

Acute (Immediate)
- May cause irreversible damage to mucous membranes.

Chronic (Delayed)
- Repeated or prolonged exposure to corrosive materials or fumes may cause gastrointestinal distrubances.

Key to abbreviations

LC = Lethal Concentration

TC = Toxic Concentration

Section 12 - Ecological Information

12.1 Toxicity

- Material data lacking.

12.2 Persistence and degradability

- Material data lacking.

12.3 Bioaccumulative potential

- Material data lacking.

12.4 Mobility in Soil

- Material data lacking.

12.5 Results of PBT and vPvB assessment

- No PBT and vPvB assessment has been conducted.

12.6 Other adverse effects

- No studies have been found.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Product waste
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	UN2031	Nitric acid	5.1,8	II	NDA
TDG	UN2031	NITRIC ACID	5.1,8	II	NDA
IMO/IMDG	UN2031	NITRIC ACID	5.1,8	II	NDA
IATA/ICAO	UN2031	Nitric acid	5.1,8	II	NDA

14.6 Special precautions for user
- According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

14.7 Transport in bulk
- Not relevant.

according to Annex II of MARPOL 73/78 and the IBC Code

14.8 Other information

DOT • Nitric acid has a reportable quantity of 100 lbs (45.4 kg) as listed in Appendix A to 49 CFR 172.101.

Section 15 - Regulatory Information

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

SARA Hazard Classifications • Acute

State Right To Know				
Component	**CAS**	**MA**	**NJ**	**PA**
Nitric acid	7697-37-2	Yes	Yes	Yes

Inventory						
Component	**CAS**	**Canada DSL**	**Canada NDSL**	**China**	**EU EINECS**	**EU ELNICS**
Nitric acid	7697-37-2	Yes	No	Yes	Yes	No

Inventory (Con't.)		
Component	**CAS**	**TSCA**
Nitric acid	7697-37-2	Yes

Canada

Labor

Canada - WHMIS - Classifications of Substances

• Nitric acid	7697-37-2	C, E (including 61.3%, 67.18%, 70%); E (0.63%, 6.3%)

Canada - WHMIS - Ingredient Disclosure List

• Nitric acid	7697-37-2	1 %

Environment

Canada - CEPA - Priority Substances List

• Nitric acid	7697-37-2	Not Listed

China

Environment

China - Ozone Depleting Substances - First Schedule

• Nitric acid	7697-37-2	Not Listed

China - Ozone Depleting Substances - Second Schedule

• Nitric acid	7697-37-2	Not Listed

China - Ozone Depleting Substances - Third Schedule

• Nitric acid	7697-37-2	Not Listed

Other

China - Annex I & II - Controlled Chemicals Lists

• Nitric acid	7697-37-2	Not Listed

China - Dangerous Goods List

• Nitric acid	7697-37-2	(other than red fuming, with >70% Nitric acid; other than red fuming, with not >70% Nitric acid)

China - Export Control List - Part I Chemicals

• Nitric acid	7697-37-2	Not Listed

Europe

Other

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification

• Nitric acid	7697-37-2	C; R35 O; R8

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits

• Nitric acid	7697-37-2	70%<=C: O; R:8 20%<=C: C; R:35 5%<=C<20%: C; R:34

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling

• Nitric acid	7697-37-2	O C R:8-35 S:(1/2)-23-26-36-45

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations

• Nitric acid	7697-37-2	B

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases

• Nitric acid	7697-37-2	S:(1/2)-23-26-36-45

Germany

Environment

Germany - TA Luft - Types and Classes

• Nitric acid	7697-37-2	Not Listed

Germany - Water Classification (VwVwS) - Annex 1

• Nitric acid	7697-37-2	Not Listed

Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes

• Nitric acid	7697-37-2	ID Number 414, hazard class 1 - low hazard to waters (except fuming)

Germany - Water Classification (VwVwS) - Annex 3

• Nitric acid	7697-37-2	Not Listed

Other

Germany - Specifically Regulated Chemicals in TRGS

• Nitric acid	7697-37-2	Not Listed

Portugal

Other

Portugal - Prohibited Substances

• Nitric acid	7697-37-2	Not Listed

United Kingdom

Environment

United Kingdom - Pollution Inventory - Schedule 1 - Thresholds for Releases to Air

• Nitric acid	7697-37-2	Not Listed

Other

United Kingdom - Workplace Exposure Limits (WELs) - Substances in Review

• Nitric acid	7697-37-2	Not Listed

United Kingdom - List of Dangerous Substances in Water

• Nitric acid	7697-37-2	Not Listed

United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

• Nitric acid	7697-37-2	500 lb TQ (>=94.5% by weight)

U.S. - OSHA - Specifically Regulated Chemicals

• Nitric acid	7697-37-2	Not Listed

Environment

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

• Nitric acid	7697-37-2	Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Nitric acid	7697-37-2	1000 lb final RQ; 454 kg final RQ

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

• Nitric acid	7697-37-2	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

• Nitric acid	7697-37-2	1000 lb EPCRA RQ

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

• Nitric acid	7697-37-2	1000 lb TPQ

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Nitric acid	7697-37-2	1.0 % de minimis concentration

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

• Nitric acid	7697-37-2	Not Listed

United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List

• Nitric acid	7697-37-2	Not Listed

U.S. - California - Proposition 65 - Developmental Toxicity

• Nitric acid	7697-37-2	Not Listed

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

• Nitric acid	7697-37-2	Not Listed

U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)

• Nitric acid	7697-37-2	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Female

• Nitric acid	7697-37-2	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Male

• Nitric acid	7697-37-2	Not Listed

United States - Pennsylvania

Labor

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

• Nitric acid	7697-37-2	

U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

• Nitric acid	7697-37-2	Not Listed

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

Section 16 - Other Information

Last Revision Date
- 08/September/2014

Preparation Date
- 08/September/2014

Disclaimer/Statement of Liability
- To the best of Air Liquide's knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If this gas mixture is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.

Key to abbreviations

NDA = No data available