

Nitric Acid > 20 - < 65% Industrial Grade

Section 1. Identification

Product identifier	: Nitric Acid > 20 - < 65% Industrial Grade
Other means of identification	: SDS #: 1532-25446 Historic MSDS #: 14288
Product type	: Liquid.

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

Identified uses		
Manufacture of chemical products. Manufacture of specialty fertilizers.		
Uses advised against	Reason	
Product is not intended for consumer use. Reserved for industrial and professional use only.	Risk assessment.	

Supplier's details : Agrium Canada Partnership
13131 Lake Fraser Drive, S.E.
Calgary, Alberta, Canada, T2J 7E8

Agrium U.S. Inc.
5296 Harvest Lake Drive
Loveland, CO 80538

Company phone number (North America):
1-800-403-2861 (Customer Service)

Emergency telephone number (with hours of operation) : Agrium 24 Hr Emergency Telephone Numbers:
English:
Transportation Emergencies: 1-800-792-8311
Medical Emergencies: 1-303-389-1653

French or Spanish:
Transportation or Medical Emergencies: 1-303-389-1654

Section 2. Hazard identification

Classification of the substance or mixture : CORROSIVE TO METALS - Category 1
SKIN CORROSION - Category 1A
SERIOUS EYE DAMAGE - Category 1
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

GHS label elementsHazard pictogramsSignal word

Hazard statements : Danger
May be corrosive to metals.
Causes severe skin burns and eye damage.
May cause respiratory irritation.

Precautionary statementsGeneral

: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

Section 2. Hazard identification

Prevention	: Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep only in original packaging. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash hands thoroughly after handling.
Response	: Absorb spillage to prevent material damage. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician. 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 physician.
Storage	: Store locked up. Store in a corrosion resistant container with a resistant inner liner.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: None known.
Other hazards which do not result in classification	: None known.

Section 3. Composition/information on ingredients

Substance/mixture	: Substance	
Ingredient name	% (w/w)	CAS number

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-aid measures

Description of necessary first aid measures

Eye contact	: CORROSIVE. Begin eye irrigation immediately. All eye exposures to nitric acid require medical evaluation following decontamination. Immediately rinse eyes with large quantities of water or saline for a minimum of 20-30 minutes depending on severity of exposure. If possible, remove contact lenses being careful not to cause additional eye damage. If the initial water supply is insufficient, keep the affected area wet with a moist cloth and transfer the person to the nearest place where rinsing can be continued for the recommended length of time. Call an ambulance for transport to hospital. Continue eye irrigation during transport. For additional advice call the medical emergency number on this safety data sheet or your poison center or medical provider.
Inhalation	: CORROSIVE. If gases or vapors exceed the IDLH or are present in unknown concentrations, rescuers must wear self-contained breathing apparatus and acid resistant protective clothing or coveralls under the requirements of the Hazwoper standard, 29CFR 1910.120.
REMOVE PERSON TO FRESH AIR. Watch closely for signs of wheezing and breathing difficulties. Maintain an open airway. If not breathing, begin CPR. Oxygen may be administered by trained personnel. Affected persons who have stopped breathing or are having difficulty breathing or are unconscious need immediate medical attention. Symptoms may be delayed after exposure to nitric acid or its thermal decomposition products. The exposed person may need to be kept under medical surveillance for 24-72 hours. Call an ambulance for transport to hospital.	

Section 4. First-aid measures

hospital. For additional advice call the medical emergency number on this SDS or your poison center or medical provider.

Skin contact

: CORROSIVE. Causes severe burns. Immediately begin rinsing the affected areas with water. Remove contaminated clothing and shoes. Affected areas should be rinsed for a minimum of 20 - 30 minutes or longer depending on severity of exposure. Luke-warm water is recommended for exposures requiring prolonged irrigation. Conscious persons without breathing difficulties may benefit from prolonged irrigation in a fixed shower or bathing facility prior to transport to hospital. Call an ambulance for transport to hospital. Continue skin irrigation during transport. For additional advice call the medical emergency number on this safety data sheet or your poison center or medical provider.

Ingestion

: CORROSIVE. May cause severe burns to the mouth, throat, and stomach. Oral exposures: If the affected person requires cardiopulmonary resuscitation, avoid mouth to mouth contact. Do not induce vomiting. If vomiting occurs, attempt to keep head lower than the chest so that vomit does not enter the lungs. Wash (decontaminate) face and mouth with water to remove visible material. If the exposed person is conscious and can swallow, give 1-2 sips of water. Do not give anything else by mouth. Loosen tight clothing such as collar, tie, belt or waistband to prevent any breathing restrictions. For signs of breathing difficulties, refer to the INHALATION section. Call an ambulance for transportation to hospital. For additional advice, call the medical emergency number on this safety data sheet or your poison center or medical provider.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact

: Causes serious eye damage.

Inhalation

: May cause respiratory irritation.

Skin contact

: Causes severe burns.

Ingestion

: Corrosive to the digestive tract. May cause burns to the mouth, throat and stomach. May cause respiratory irritation.

Over-exposure signs/symptoms

Eye contact

: Adverse symptoms may include the following:
pain
watering
redness

Inhalation

: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs. Adverse symptoms may include the following:
coughing
respiratory tract irritation
wheezing and breathing difficulties

Skin contact

: Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur

Ingestion

: Adverse symptoms may include the following:
nausea or vomiting
throat and stomach pain
difficulty swallowing
respiratory tract irritation
wheezing and breathing difficulties

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: Nitric acid is an acid which may cause coagulative necrosis. Treatment is symptomatic and supportive. The extent of injury depends on duration of exposure and concentration of liquid. Do not attempt to use chemicals to neutralize the exposure. 24 Hr Medical Emergency telephone number for professional support: English: 1-303-389-1653; French or Spanish: 1-303-389-1654.

Section 4. First-aid measures

Specific treatments : Call the medical emergency number on this SDS or your poison center or doctor immediately if large quantities have been ingested. In cases of suspected methemoglobinemia, methylene blue may be indicated based on patient severity.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. Depending on the situation, the rescuer should wear an appropriate mask, gloves, protective clothing and possibly, a self-contained breathing apparatus. Mouth-to-mouth resuscitation of oral exposure patients is not recommended. First-aiders with contaminated clothing should be properly decontaminated.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Non-flammable. Material will not burn. Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : Not an oxidizer at the manufactured concentration. It may become an oxidizing liquid if concentrated by evaporation. In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
Acidic corrosive material
nitrogen oxides

Special protective actions for fire-fighters : No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Decontaminate tools, equipment and personal protective equipment in a segregated area.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Remark : Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air. Contain and collect the water used to fight the fire for later treatment and disposal.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Put on appropriate personal protective equipment. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". Refer to Emergency Response Guidebook, Guide 157 for further information regarding spill control and Isolation/Protective Action Distances Guidelines.

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused adverse impacts (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Section 6. Accidental release measures

Small spill

- Put on appropriate personal protective equipment (see Section 8). Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Absorb spillage to prevent material damage. Dispose of via a licensed waste disposal contractor.

Large spill

- Put on appropriate personal protective equipment (see Section 8). Stop leak if without risk. Move containers from spill area. Absorb spillage to prevent material damage. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

- Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Handle the material in a fume hood/cupboard or under local exhaust ventilation. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from alkalis. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

- Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

- Store in accordance with local regulations. Refer to NFPA 400 Hazardous Materials Code for further information on the safe storage and handling of hazardous materials. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store in a corrosion resistant container with a resistant inner liner. Store locked up. Separate from alkalis. Keep container tightly closed and sealed until ready for use. Do not allow water to enter container because a violent reaction may occur. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Contains nitric acid. Will corrode incompatible metals and many plastic materials. 304 or 347 stainless steel are acceptable materials of construction. Storage tanks should be designed to API Standard 650. Tanks should be vented and painted white or in light, heat-reflecting colors. Piping should be welded schedule 40 stainless steel. Ensure that all pumps, valves, meters, are of compatible material. Gaskets should be of Teflon. Secondary containment is recommended where practical or required by law. Refer to NFPA 400 Hazmat Code for further information.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Canadian Regulations: Nitric acid	<p>CA Alberta Provincial (Canada, 4/2009). 15 min OEL: 4 ppm 15 minutes. 15 min OEL: 10 mg/m³ 15 minutes. 8 hrs OEL: 2 ppm 8 hours. 8 hrs OEL: 5.2 mg/m³ 8 hours.</p> <p>CA British Columbia Provincial (Canada, 4/2014). TWA: 2 ppm 8 hours. STEL: 4 ppm 15 minutes.</p> <p>CA Ontario Provincial (Canada, 1/2013). TWA: 2 ppm 8 hours. TWA: 5.2 mg/m³ 8 hours. STEL: 4 ppm 15 minutes. STEL: 10 mg/m³ 15 minutes.</p> <p>CA Quebec Provincial (Canada, 1/2014). TWAEV: 2 ppm 8 hours. TWAEV: 5.2 mg/m³ 8 hours. STEV: 4 ppm 15 minutes. STEV: 10 mg/m³ 15 minutes.</p>
U.S. Federal Regulations: Nitric acid	<p>ACGIH TLV (United States, 4/2014). TWA: 2 ppm 8 hours. TWA: 5.2 mg/m³ 8 hours. STEL: 4 ppm 15 minutes. STEL: 10 mg/m³ 15 minutes.</p> <p>OSHA PEL 1989 (United States, 3/1989). TWA: 2 ppm 8 hours. TWA: 5 mg/m³ 8 hours. STEL: 4 ppm 15 minutes. STEL: 10 mg/m³ 15 minutes.</p> <p>NIOSH REL (United States, 10/2013). TWA: 2 ppm 10 hours. TWA: 5 mg/m³ 10 hours. STEL: 4 ppm 15 minutes. STEL: 10 mg/m³ 15 minutes.</p> <p>OSHA PEL (United States, 2/2013). TWA: 2 ppm 8 hours. TWA: 5 mg/m³ 8 hours.</p>
Water	None assigned.

Appropriate engineering controls : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Section 8. Exposure controls/personal protection

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. Recommended: butyl rubber, neoprene, Viton®. Contact your personal protective equipment manufacturer to verify the compatibility of the equipment for the intended purpose.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Wear suitable coveralls capable of preventing significant penetration of the substance or chemical-resistant protective suit. Suggested personal protective equipment: DuPont Tychem® 4000, Tychem® 6000, Tychem® 6000 FR, or Tychem® 10000, Kappler Zytron® 200 or Zytron® 500, Lakeland ChemMax® 2, or Lakeland Interceptor®. Contact your personal protective equipment manufacturer to verify the compatibility of the equipment for the intended purpose.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Impervious rubber safety boots. Contact your personal protective equipment manufacturer to verify the compatibility of the equipment for the intended purpose.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. **Air filtering respirators are not acceptable for use with this material.** Self-contained breathing apparatus (SCBA) should be used to avoid inhalation of the product. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. For U.S. work sites where respiratory protection is required, ensure that a respiratory protection program meeting 29 CFR 1910.134 requirements is in place.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid.

Color : Colorless to light yellow.

Odor : Pungent.

Odor threshold : Not available.

pH : <1

Melting point : Not available.

Boiling point : Not available.

Flash point : Not applicable.

Evaporation rate : Not available.

Flammability (solid, gas) : Not applicable. The substance will not burn.

Lower and upper explosive (flammable) limits : Not available.

Section 9. Physical and chemical properties

Vapor pressure	: 6.1 kPa (46 mm Hg) [room temperature] 27.5 kPa (206 mm Hg) [50°C]
Vapor density	: 2.2 [Air = 1]
Relative density	: Not available.
Solubility	: Easily soluble in the following materials: cold water and hot water.
Solubility in water	: Water-soluble liquid
Partition coefficient: n-octanol/water	: -2.3
Auto-ignition temperature	: Not applicable.
Decomposition temperature	: Not available.
Viscosity	: Not available.

Section 10. Stability and reactivity

Reactivity	: Avoid contamination by any source including metals, dust and organic materials. Reacts violently when water is added to this product. Reactive or incompatible with the following materials: Inorganic hydroxide. Organic chemicals. Incompatible with halogens. Refer to NFPA 400 Hazardous Materials Code for further information on the safe storage and handling of hazardous materials.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Hazardous reactions or instability may occur under certain conditions of storage or use. Conditions may include the following: Contact with incompatible substances. contact with combustible materials Reactions may include the following: risk of intensifying fire risk of violent reaction May be corrosive to metals.
Conditions to avoid	: Refer to NFPA 400 Hazardous Materials Code for further information on the safe storage and handling of hazardous materials.
Incompatible materials	: Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air. Corrosive to metal. Contact your sales representative or a metallurgical specialist to ensure compatibility with your equipment. Reactive or incompatible with the following materials: alkalis metals
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Nitric acid Water	LC50 Inhalation Vapor LD50 Oral	Rat Rat	244 ppm >90 g/kg	30 minutes -

Conclusion/Summary : Corrosive to the digestive tract. Corrosive to eyes and skin.

Irritation/Corrosion

Section 11. Toxicological information

Not available.

Conclusion/Summary

- Skin** : Corrosive to the skin.
- Eyes** : Corrosive to eyes.
- Respiratory** : May cause respiratory irritation.

Sensitization

Not available.

Conclusion/Summary

- Skin** : No known significant effects or critical hazards.
- Respiratory** : No known significant effects or critical hazards.

Mutagenicity

Not available.

Conclusion/Summary

- : No known significant effects or critical hazards.

Carcinogenicity

Not available.

Conclusion/Summary

- : No known significant effects or critical hazards.

Reproductive toxicity

Not available.

Conclusion/Summary

- : No known significant effects or critical hazards.

Teratogenicity

Not available.

Conclusion/Summary

- : No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : May cause respiratory irritation.
- Skin contact** : Causes severe burns.
- Ingestion** : Corrosive to the digestive tract. May cause burns to the mouth, throat and stomach. May cause respiratory irritation.

Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following:
pain
watering
redness

Section 11. Toxicological information

Inhalation

- : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs. Adverse symptoms may include the following:
coughing
respiratory tract irritation
wheezing and breathing difficulties

Skin contact

- : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur

Ingestion

- : Adverse symptoms may include the following:
nausea or vomiting
throat and stomach pain
difficulty swallowing
respiratory tract irritation
wheezing and breathing difficulties

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : See above

Potential delayed effects : Skin: scarring
Respiratory Tract: pulmonary edema

Long term exposure

Potential immediate effects : See above

Potential delayed effects : Chronic bronchitis

Potential chronic health effects

Conclusion/Summary : Adverse effects are typically the result of acute overexposure. These effects may be long term or permanent in nature.

General : See above

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Nitric acid	Acute LC50 180 mg/l Marine water	Crustaceans - <i>Carcinus maenas</i> - Adult	48 hours
	Acute LC50 72 mg/l Fresh water	Fish - <i>Gambusia affinis</i> - Adult	96 hours

Conclusion/Summary : Harmful to aquatic organisms.

Persistence and degradability

Conclusion/Summary : Readily biodegradable

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Nitric acid	-	-	Readily

Bioaccumulative potential

Section 12. Ecological information

Product/ingredient name	LogP _{ow}	BCF	Potential
Nitric acid Water	-2.3 -1.38	- -	low low

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
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Section 14. Transport information

	TDG Classification	DOT Classification	Mexico Classification	IMDG	IATA
UN number	2031	2031	2031	Not available.	Not available.
UN proper shipping name	NITRIC ACID, other than red fuming, with less than 65% nitric acid	Nitric acid other than red fuming, with more than 20 percent and less than 65 percent nitric acid solution	ACIDO NITRICO, excepto el ácido nítrico fumante rojo, con no más de 70% ácido nítrico	Not available.	Not available.
Transport hazard class(es)	8 	8 	8 	Not available.	Not available.
Packing group	II	II	III	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information	<u>Explosive Limit and Limited Quantity Index</u> 1 <u>Passenger Carrying Ship Index</u> Forbidden <u>Passenger</u>	<u>Reportable quantity</u> 1000 lbs / 454 kg [85.667 gal / 324.29 L] Packages of less than the reportable quantity are not subject to Hazmat	<u>Special provisions</u> P001 IBC02 PP81 B15 T8 TP2	-	-

Section 14. Transport information

	<p><u>Carrying Road or Rail Index</u> Forbidden</p> <p>Classification per the current revision, Transportation of Dangerous Goods Regulation, Part 2, Sec 2.3.</p>	<p>transportation requirements.</p> <p><u>Packaging instruction</u> Passenger aircraft Quantity limitation: Forbidden.</p> <p>Cargo aircraft Quantity limitation: 30 L</p> <p><u>Special provisions</u> A6, B2, B47, B53, IB2, IP15, T8, TP2</p>		
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Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL and the IBC Code : Not available.

Section 15. Regulatory information

Canadian lists

Canadian NPRI : The following components are listed: Nitric acid

CEPA Toxic substances : None of the components are listed.

Canada inventory : All components are listed or exempted.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Inform Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : All components are listed or exempted.

China : All components are listed or exempted.

Europe : All components are listed or exempted.

Japan : All components are listed or exempted.

Malaysia : All components are listed or exempted.

New Zealand : All components are listed or exempted.

Philippines : All components are listed or exempted.

Section 15. Regulatory information

Republic of Korea	: All components are listed or exempted.
Taiwan	: All components are listed or exempted.
Turkey	: Not determined.
<u>U.S. Federal Regulations:</u>	TSCA 8(a) CDR Exempt/Partial exemption: Not determined TSCA 8(b) inventory: All components are listed or exempted. Clean Water Act (CWA) 311: Nitric acid Clean Air Act (CAA) 112 regulated toxic substances: Nitric acid
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Not listed
Clean Air Act Section 602 Class I Substances	: Not listed
Clean Air Act Section 602 Class II Substances	: Not listed
DEA List I Chemicals (Precursor Chemicals)	: Not listed
DEA List II Chemicals (Essential Chemicals)	: Not listed

SARA 302/304 Composition/information on ingredients

Name	%	EHS	SARA 302 TPQ		SARA 304 RQ	
			(lbs)	(gallons)	(lbs)	(gallons)
Nitric acid	21 - 64	Yes.	1000	85.7	1000	85.7

SARA 304 RQ : 1000 lbs / 454 kg [85.7 gal / 324.3 L]

SARA 311/312

Classification : Immediate (acute) health hazard

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard.
Nitric acid	21 - 64	No.	No.	No.	Yes.	No.

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	Nitric Acid >20 - <65%	7697-37-2	21 - 64
Supplier notification	Nitric Acid >20 - <65%	7697-37-2	21 - 64

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts	: The following components are listed: Nitric acid
New York	: The following components are listed: Nitric acid
New Jersey	: The following components are listed: Nitric acid
Pennsylvania	: The following components are listed: Nitric acid
California Prop. 65	: Not listed.

Section 16. Other information

History

Date of issue/Date of revision : 7/1/2017

Date of previous issue : 6/1/2017

Version : 2.3

☒ Indicates information that has changed from previously issued version.

This Safety Data Sheet has been revised to comply with Hazcom 2012 and WHMIS 2015 requirements.

Prepared by : Agrium Wholesale
Environment, Health, Safety and Security
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Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations
HPR = Hazardous Products Regulations

Procedure used to derive the classification

Classification	Justification
CORROSIVE TO METALS - Category 1	Weight of evidence
SKIN CORROSION - Category 1A	Weight of evidence
SERIOUS EYE DAMAGE - Category 1	Weight of evidence
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	Weight of evidence

References : Transportation of Dangerous Goods Act and Clear Language Regulations, current edition at time of (M)SDS preparation, Transport Canada;
Hazardous Products Act and Regulations, current revision at time of (M)SDS preparation, Health Canada;
Domestic Substances List, current revision at time of (M)SDS preparation, Environment Canada;
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Notice to reader

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