

SAFETY DATA SHEET

Nitric Acid > 20 - < 65% Industrial Grade

Section 1. Identification

Product identifier

: Nitric Acid > 20 - < 65% Industrial Grade

Other means of identification

Synonyms: This safety data sheet applies to the following:

Nitric Acid > 20 - < 65% Industrial Grade Nitric Acid 38° Baumé Industrial Grade

Product code(s): 1532-25446; 2506-14214

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
Risk assessment.

Product is not intended for consumer use. Reserved for industrial

and professional use only.

Supplier's details : Agrium Canada Partnership (A Subsidiary of Nutrien Ltd.)

13131 Lake Fraser Drive, S.E. Calgary, Alberta, Canada, T2J 7E8

Agrium U.S. Inc. (A Subsidiary of Nutrien Ltd.)

5296 Harvest Lake Drive Loveland, CO 80538

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

sds@nutrien.com - www.nutrien.com

Emergency telephone number (with hours of operation)

: Mutrien North American

24 HOUR EMERGENCY TELEPHONE NUMBERS:

English:

Transportation Emergencies: 1-800-792-8311 Medical Emergencies: 1-303-389-1653

French or Spanish:

Tranportation or Medical Emergencies: 1-303-389-1654

Section 2. Hazard identification

Classification of the substance or mixture : CORROSIVE TO METALS - Category 1
ACUTE TOXICITY (inhalation) - Category 3
SKIN CORROSION - Category 1A

SKIN CORROSION - Category 1A SERIOUS EYE DAMAGE - Category 1

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication

Standard (29 CFR 1910.1200).

GHS label elements

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Section 2. Hazard identification

Hazard pictograms





: Danger Signal word

Hazard statements May be corrosive to metals.

Toxic if inhaled.

Causes severe skin burns and eye damage.

Precautionary statements

General

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

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 Disposal : Store locked up. Store in a corrosion resistant container with a resistant inner liner.

: 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 : None known. result in classification

Section 3. Composition/information on ingredients

Substance/mixture : Substance

Ingredient name	% (w/w)	CAS number
Water	36 - 79	7732-18-5
Nitric acid	21 - 64	7697-37-2

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

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Section 4. First-aid measures

Inhalation

center or medical provider.

: 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. 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 : Toxic if inhaled.

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

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Section 4. First-aid measures

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 -From Canada or the U.S., English: 1-303-389-1653; French or Spanish: 1-303-389-1654.

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-tomouth resuscitation of oral exposure patients is not recommended. First-aiders with contaminated clothing should be properly decontaminated.

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

: 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

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

surrounding fire. : None known.

Unsuitable extinguishing media

Specific hazards arising from the chemical

Hazardous thermal decomposition products

Decomposition products may include the following materials: acidic corrosive material nitrogen oxides

occur and the container may burst.

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.

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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

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 watersoluble. 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

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Section 7. Handling and storage

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	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. CA British Columbia Provincial (Canada, 4/2014). TWA: 2 ppm 8 hours. STEL: 4 ppm 15 minutes. CA Ontario Provincial (Canada, 1/2013). TWA: 2 ppm 8 hours. TWA: 5.2 mg/m³ 8 hours. STEL: 4 ppm 15 minutes. STEL: 4 ppm 15 minutes. STEL: 10 mg/m³ 15 minutes. CA Quebec Provincial (Canada, 1/2014). TWAEV: 2 ppm 8 hours. TWAEV: 5.2 mg/m³ 8 hours. STEV: 4 ppm 15 minutes. STEV: 4 ppm 15 minutes. STEV: 4 ppm 15 minutes.	
U.S. Federal Regulations: Nitric acid	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. 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. NIOSH REL (United States, 10/2013). TWA: 2 ppm 10 hours. TWA: 5 mg/m³ 10 hours. STEL: 4 ppm 15 minutes. STEL: 4 ppm 15 minutes. STEL: 4 ppm 15 minutes. OSHA PEL (United States, 2/2013). TWA: 2 ppm 8 hours. TWA: 5 mg/m³ 8 hours.	
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.

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Section 8. Exposure controls/personal protection

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.

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®

or equivalent

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.

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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.

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: Variable, depending on the formulation.

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.

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Section 10. Stability and reactivity

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 compatability 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	LC50 Inhalation Vapor	Rat	244 ppm	30 minutes
Water	LD50 Oral	Rat	>90 g/kg	-

Conclusion/Summary

: Toxic if inhaled. Corrosive material. Corrosive to the digestive tract. Corrosive to eyes and skin.

Irritation/Corrosion

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

Carcinogenicity Not available.

: No known significant effects or critical hazards.

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)

Name	3 · ,	Route of exposure	Target organs
Not available.			

Specific target organ toxicity (repeated exposure)

Not available.

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Section 11. Toxicological information

Aspiration hazard

Not available.

Information on the likely routes of exposure

InhalationSkin contact

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : Toxic if inhaled.

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

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

: See above.

effects

Potential delayed effects : Skin: scarring

Respiratory Tract: pulmonary edema

Long term exposure

Potential immediate

: See above.

effects

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.

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Section 11. Toxicological information

Section 12. Ecological information

Toxicity

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

Product/ingredient name	LogPow	BCF	Potential
Nitric acid	-2.3	-	low
Water	-1.38		low

Mobility in soil

Soil/water partition coefficient (Koc)

: 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.

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.

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Section 14. Transport information

Transport hazard class(es)	8	8 CONSCIPE	8	Not available.	Not available.
Packing group	II	II	III	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information	Explosive Limit and Limited Quantity Index 1 Passenger Carrying Ship Index Forbidden Passenger Carrying Road or Rail Index Forbidden Classification per the current revision, Transportation of Dangerous Goods Regulation, Part 2, Sec 2.3.	Reportable quantity 1000 lbs / 454 kg [85.667 gal / 324. 29 L] Packages of less than the reportable quantity are not subject to Hazmat transportation requirements. Packaging instruction Passenger aircraft Quantity limitation: Forbidden. Cargo aircraft Quantity limitation: 30 L Special provisions A6, B2, B47, B53, IB2, IP15, T8, TP2	Special provisions P001 IBC02 PP81 B15 T8 TP2		-

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 : Not 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)

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Section 15. Regulatory information

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed 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. : All components are listed or exempted. **Europe Japan** : All components are listed or exempted. : All components are listed or exempted. **Malaysia New Zealand** : All components are listed or exempted. **Philippines** : All components are listed or exempted. Republic of Korea : All components are listed or exempted. **Taiwan** : All components are listed or exempted.

Turkey: Not determined.

U.S. Federal Regulations: : TSCA 8(a) CDR Exempt/Partial exemption: Not determined

TSCA 8(b) Active 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

: Not listed

(Precursor Chemicals)

: Not listed

DEA List II Chemicals (Essential Chemicals)

SARA 302/304 Composition/information on ingredients

Î		SARA 302 TPQ SARA 304 RQ		SARA 302 TPQ		RQ	
	Name	%	EHS	(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	health	Delayed (chronic) health hazard.
Nitric acid	21 - 64	No.	No.	No.	Yes.	No.

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Section 15. Regulatory information

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 acidNew York: The following components are listed: Nitric acidNew Jersey: The following components are listed: Nitric acidPennsylvania: The following components are listed: Nitric acid

California Prop. 65 : This product, as manufactured, does NOT contain any substance in

concentrations known to the state of California to cause cancer, birth defects or other reproductive harm. Nutrien cannot guarantee the downstream compliance

of any product once out of Nutrien custody.

Section 16. Other information

History

Date of issue/Date of

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revision

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Indicates information that has changed from previously issued version.

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
ACUTE TOXICITY (inhalation) - Category 3	Weight of evidence
SKIN CORROSION - Category 1A	Weight of evidence
SERIOUS EYE DAMAGE - Category 1	Weight of evidence

References

: Transportation of Dangerous Goods Act and Clear Language Regulations, current edition at time of SDS preparation, Transport Canada;

Hazardous Products Act and Regulations, current revision at time of SDS preparation, Health Canada;

Domestic Substances List, current revision at time of SDS preparation, Environment Canada:

29 CFR Part 1910, current revision at time of SDS preparation, U.S. Occupational Safety and Health Administration;

40 CFR Parts 1-799, current revision at time of SDS preparation, U.S.

Environmental Protection Agency;

49 CFR Parts 1-199, current revision at time of SDS preparation, U.S. Department of Transport;

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Section 16. Other information

Mexican Official Standard NOM-018-STPS-2015, Harmonised System for the Identification and Communication of Hazards and Risks by Hazardous Chemicals in the Workplace;

NORMA Oficial Mexicana NOM-010-STPS-2014, Agentes químicos contaminantes del ambiente laboral-Reconocimiento, evaluación y control.

Mexican Official Standard NOM-002-SCT / 2011, List of the most commonly transported hazardous substances and materials;

Threshold Limit Values for Chemical Substances, current edition at time of SDS preparation, American Conference of Governmental Industrial Hygienists; NFPA 400, National Fire Codes, National Fire Protection Association, current edition at time of SDS preparation;

NFPA 704, National Fire Codes, National Fire Protection Association, current edition at time of SDS preparation;

Corrosion Data Survey, Sixth Edition, 1985, National Association of Corrosion Engineers;

ERG 2016, Emergency Response Guidebook, U.S. Department of Transport, Transport Canada, and the Secretariat of Transportation and Communications of Mexico

Hazardous Substances Data Bank, current revision at time of SDS preparation, National Library of Medicine, Bethesda, Maryland

Integrated Risk Information System, current revision at time of SDS preparation, U. S. Environmental Protection Agency, Washington, D.C.

Pocket Guide to Chemical Hazards, current revision at time of SDS preparation, National Institute for Occupational Safety and Health, Cincinnati, Ohio; Agency for Toxic Substances and Disease Registry Databank, current revision at

time of SDS preparation, U.S. Department of Health and Human Services, Atlanta, Georgia

National Toxicology Program, Report on Carcinogens, Division of the National Institute of Environmental Health Sciences, Research Triangle Park, North Carolina. Registry of Toxic Effects of Chemical Substances. National Institute for Occupational Safety and Health, Cincinnati, Ohio

California Code of Regulations, Title 27, Div 4, Chapter 1, Proposition 65 Aug 30, 2018 rev and current updates

The Fertilizer Institute, Product Toxicology Testing Program Results, TFI, Washington, D.C., 2003

Notice to reader

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