

**SAFETY DATA SHEET** 

### **Ammonium Nitrate Solution**

Section 1. Identi	ification
Product identifier	: Ammonium Nitrate Solution
SDS #	: 311
Other means of identification	
Synony	ms : This safety data sheet applies to the following:
	SOL19 - Ammonium Nitrate Solution DA190 SOL19 - Ammonium Nitrate Solution 19-0-0 ANS54 - Ammonium Nitrate Solution 54%
Product code	e(s) : ANS54; SOL19
Product type	: Liquid.
Relevant identified uses of	of the substance or mixture and uses advised against
Identified uses Fertilizer solution. Manufa	cture of inorganic products. Manufacture of specialty fertilizers.
Supplier's details	PCS Sales (USA), Inc. (A Subsidiary of Nutrien Ltd.) Suite 150
	500 Lake Cook Road
	Deerfield, IL 60015
	United States
	PCS Sales (Canada), Inc. (A Subsidiary of Nutrien Ltd.)
	Suite 1700
	211 - 19th Street East Saskatoon SK S7K 5R6
	Canada
	Company phone number (North America):
	1-800-524-0132 (Customer Service)
	sds@nutrien.com - www.nutrien.com
Emergency telephone	: Nutrien North American
number (with hours of	24 HOUR EMERGENCY TELEPHONE NUMBERS:
operation)	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. Hazar	
Classification of the substance or mixture	: EYE IRRITATION - Category 2B
OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication
GHS label elements	Standard (29 CFR 1910.1200).

## Section 2. Hazard identification

Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	1	Causes eye irritation.
Precautionary statements		
General	1	Not applicable.
Prevention	1	Wash hands thoroughly after handling.
Response	:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Storage	1	Not applicable.
Disposal	1	Not applicable.
Supplemental label elements	:	None known.
Other hazards which do not result in classification	:	None known.

### Section 3. Composition/information on ingredients

Substance/mixture : Mixture		
Ingredient name	%	CAS number
Ammonium nitrate Water	54 46	6484-52-2 7732-18-5

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	: Begin eye irrigation immediately. Eye exposures to nitrates may require medical evaluation following decontamination if pain or irritation persists. Immediately rinse eyes with large quantities of water or saline for a minimum of 15 minutes. 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. For additional advice call the medical emergency number on this SDS or your poison center or doctor.
Inhalation	: Remove person to fresh air. No known significant effects. Seek medical attention for any signs of wheezing and/or breathing difficulties. For additional advice call the medical emergency number on this SDS or your poison center or medical provider.
Skin contact	: No known significant effects. Rinse the affected areas with water. Remove contaminated clothing, jewelry, and shoes. Wash/clean items before reuse. Seek medical attention for persistent skin pain or irritation. For additional advice call the medical emergency number on this SDS or your poison center or doctor.

## Section 4. First-aid measures

Section 4. First-a	
Ingestion	: Nitrate based product. May be irritating to mouth, throat and stomach. May cause methemoglobinemia (a condition that interferes with the oxygen-carrying capacity of the blood) if ingested in large quantities or over a prolonged period of time. Oral exposures: if the affected person requires CPR, avoid mouth to mouth contact. Do not induce vomiting. If vomiting occurs, attempt to keep head lower than 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. Call for emergency transportation to a hospital if the exposed person feels sick or has breathing difficulties, or a large amount is suspected ingested. For additional advice, call the medical emergency number on this SDS or your poison center or doctor.
Most important symptoms	/effects, acute and delayed
Potential acute health effe	ects
Eye contact	: Causes eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: May be irritating to the digestive tract. May cause nausea, vomiting, diarrhea, and abdominal pain. May cause methemoglobinemia (a condition that interferes with the oxygen-carrying capacity of the blood) if ingested in large quantities or over a prolonged period of time. Persons with methemoglobinemia may have blue tinge color to lips, nails, and skin. Also they may have shortness of breath or trouble breathing. Persons more susceptible to methemoglobinemia include: very young (less than 3 months), the elderly, those with chronic obstructive pulmonary disease (COPD), anemia, coronary artery disease, recent surgery or infection, and those with a genetic deficiency of G-6-PD.
Over-exposure signs/sym	iptoms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	<ul> <li>The substance will not burn. Undergoes thermal decomposition at elevated temperatures to release toxic and flammable gases. Adverse symptoms may include the following: headache respiratory tract irritation coughing</li> </ul>
Skin contact	: No specific data.
Ingestion	<ul> <li>Over-exposure by ingestion is unlikely under normal working conditions. Adverse symptoms may include the following: nausea or vomiting stomach pains diarrhea</li> <li>Methemoglobinemia (see Acute Health Effects)</li> </ul>
Indication of immediate me	edical attention and special treatment needed, if necessary
Notes to physician	<ul> <li>In case of inhalation of decomposition products (carbon monoxide, carbon dioxide, nitrogen oxides) in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for up to 72 hours. In cases of suspected methemoglobinemia, monitor methemoglobin blood levels. Treatment is supportive; methylene blue may be indicated based on patient severity. 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. From all other countries, English: 00-1-303-389-1653; French or Spanish:</li> </ul>

Date of issue/Date of revision	: 3/25/2021	Date of previous issue	: 5/23/2019	Version : 2.1	3/14

# 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. 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)

-	-
Extinguishing media	
Suitable extinguishing media	: Non-flammable. Material will not burn. Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: The product acts as an oxidizing agent, and supports combustion by liberating oxygen even if smothered. Do not attempt to smother the fire.
Specific hazards arising from the chemical	<ul> <li>In a fire or if heated, a pressure increase will occur and the container may burst. Not an oxidizer at the manufactured concentration. It may become an oxidizing liquid if concentrated by evaporation. If evaporated to dryness, the product acts as an oxidizing agent, and supports combustion by liberating oxygen even if smothered. Cool containing vessels with flooding quantities of water until well after fire is out. A self contained breathing apparatus should be used to avoid inhalation of toxic fumes. When heated to decomposition it emits toxic fumes (NH3, N0, N02). Contaminated water can cause environmental damage. Contain and collect water used to fight fire.</li> </ul>
Hazardous thermal decomposition products	: Decomposition products may include the following materials: Nitrogen oxides Ammonia
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	<ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</li> </ul>
Remark	: Dangerous if allowed to dry out. Residue may exhibit oxidizing properties.

## 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. Keep unnecessary and unprotected personnel from entering. Put on appropriate personal protective equipment.		
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".		
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	: Use personal protective equipment as required. 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. Dispose of via a licensed waste disposal contractor.
Large spill	<ul> <li>Use personal protective equipment as required. Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Pump spilled material to a suitable, labeled container for recycling or disposal. Recycle to process, if possible.</li> <li>or</li> <li>Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.</li> </ul>

# Section 7. Handling and storage

Precautions for safe handling	9	
Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use.
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. 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. Keep container tightly closed and sealed until ready for use. 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. While AN solution as produced is not classified as an oxidizer, it is important to prevent conditions during handling and storage which may result in concentration of the product which may encourage it to behave as an oxidizer. Ensure that AN solution pumps are thermally protected against exceeding a temperature of 66 deg. C (150 deg. F). Also ensure that piping sytems, if insulated, are not externally heated (heat traced).

## Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name	Exposure limits
Canadian Regulations:	None assigned.
U.S. Federal Regulations: Ammonium nitrate Water	OSHA (United States): Particulates not otherwise regulated (PNOF TWA (8 hours), Total dust: 15 mg/m <sup>3</sup> ; Respirable fraction: 5 mg/m <sup>3</sup> . None assigned.
Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborr contaminants.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensuthey comply with the requirements of environmental protection legislation. In som cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Date of issue/Date of revision

# Section 8. Exposure controls/personal protection

Individual protection meas	<u>ures</u>
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.
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. No special measures are typically indicated.
Body protection	<ul> <li>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. No special measures are typically indicated.</li> </ul>
Other skin protection	<ul> <li>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.</li> </ul>
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. 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. No personal respiratory protective equipment is normally required.

# Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid. [Clear to slightly hazy liquid.]
Color	: Not available.
Odor	: Ammoniacal. [Slight]
Odor threshold	: Not available.
рН	: 6 to 7
Melting point	: 1°C (33.8°F)
Boiling point	: 121°C (249.8°F)
Flash point	: [Product does not sustain combustion.]
Evaporation rate	: Not available.
Flammability (solid, gas)	: Non-flammable. Material will not burn. Decomposes on heating. Evolves toxic fumes when heated to decomposition.
Lower and upper explosive (flammable) limits	: Not applicable.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 1.25
	Bulk density: 10.44 lbs/gal; 1250 g/l
Solubility	: Easily soluble in the following materials: cold water and hot water.
Solubility in water	: Water-soluble liquid
Partition coefficient: n- octanol/water	: Not available.
Auto-ignition temperature	: Not applicable.
Decomposition temperature	: Not applicable.

## Section 9. Physical and chemical properties

Viscosity

: Not available.

# Section 10. Stability and reactivity

Reactivity	:	Not an oxidizer at the manufactured concentration. It may become an oxidizing liquid if concentrated by evaporation. Take any precaution to avoid mixing with combustibles and other incompatible materials.
Chemical stability	:	The product is stable.
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	Do not allow to dry out. Avoid high temperatures in combination with high pressures.
Incompatible materials	:	Incompatible with halogens. Incompatible with copper alloys, copper, and zinc. May react or be incompatible with acids. May react or be incompatible with alkalis. May be incompatible with some materials of construction. Contact your sales representative or a metallurgical specialist to ensure compatability with your equipment.
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
Ammonium nitrate	LD50 Dermal	Rat - Male,	>5000 mg/kg	-
		Female		
	LD50 Oral	Rat - Male, Female	2950 mg/kg	-
-	LD50 Oral	Rat	2217 mg/kg	-
Water	LD50 Oral	Rat	>90 g/kg	-

**Conclusion/Summary** : Very low toxicity to humans or animals. Effects are not sufficient for classification as hazardous.

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Ammonium nitrate	Skin Eyes - Edema of the conjunctivae	Rabbit Rabbit	0 3	-	72 hours 3 days

to the skin.

### **Conclusion/Summary**

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### Sensitization

•••••	Route of exposure	Species	Result
Ammonium nitrate	Skin	Mouse	Not sensitizing

#### Conclusion/Summary Skin

: Non-sensitizer.

Date of issue/Date of revision

7/14

## Section 11. Toxicological information

#### Respiratory Mutagenicity

			-
:	Not	available	

Product/ingredient name	Test	Experiment	Result
Ammonium nitrate	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	Negative
	OECD 476 In vitro Mammalian Cell Gene Mutation Test	Experiment: In vitro Subject: Mammalian-Animal	Negative

### Conclusion/Summary

: No mutagenic effect.

# Carcinogenicity

Not available.

### **Conclusion/Summary** : Potential for nitrosamine formation if ingested. Do not ingest.

### Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
Ammonium nitrate	Negative	Negative	Negative	Rat - Male, Female	Oral: 1500 mg/ kg	-

#### **Conclusion/Summary** : No known significant effects or critical hazards.

#### **Teratogenicity**

Product/ingredient name	Result	Species	Dose	Exposure
Ammonium nitrate	Negative - Oral	Rat - Female	1500 mg/kg	-

**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 Potential acute health effects		Routes of entry anticipated: Eye contact
Eye contact	÷	Causes eye irritation.
Inhalation	1	No known significant effects or critical hazards.
Skin contact	1	No known significant effects or critical hazards.
Ingestion	:	May be irritating to the digestive tract. May cause nausea, vomiting, diarrhea, and abdominal pain. May cause methemoglobinemia (a condition that interferes with the oxygen-carrying capacity of the blood) if ingested in large quantities or over a prolonged period of time. Persons with methemoglobinemia may have blue tinge color to lips, nails, and skin. Also they may have shortness of breath or trouble breathing. Persons more susceptible to methemoglobinemia include: very young (less than 3 months), the elderly, those with chronic obstructive pulmonary disease (COPD), anemia, coronary artery disease, recent surgery or infection, and those with a genetic deficiency of G-6-PD.

#### Symptoms related to the physical, chemical and toxicological characteristics

# Section 11. Toxicological information

: Adverse symptoms may include the following: pain or irritation watering redness
: The substance will not burn. Undergoes thermal decomposition at elevated temperatures to release toxic and flammable gases. Adverse symptoms may include the following: headache respiratory tract irritation coughing
: No specific data.
: Over-exposure by ingestion is unlikely under normal working conditions. Adverse symptoms may include the following: nausea or vomiting stomach pains diarrhea Methemoglobinemia (see Acute Health Effects)

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

<u>Short term exposure</u>	
Potential immediate effects	: See above.
Potential delayed effects	: See above.
<u>Long term exposure</u>	
Potential immediate effects	: See above.
Potential delayed effects	: See below.
Potential chronic health eff	ects
General	: No known significant effects or critical hazards.
Carcinogenicity	: Potential for nitrosamine formation if ingested. Do not ingest.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
<b>Developmental effects</b>	: 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
Ammonium nitrate -	Chronic NOEC 6 to 12 mg/l Fresh water NOEC >1700 mg/l Marine water Acute EC50 490 mg/l Fresh water Acute LC50 447 mg/l Fresh water	Crustaceans - Cladocera Algae Daphnia Fish	21 days 10 days 48 hours 48 hours
Conclusion/Summary	: Very low acute toxicity to fish. No know	own significant effects or critica	al hazards.

### Persistence and degradability

Conclusion/Summary	: According to EC criteria: Readily biodegradable				
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability		
Ammonium nitrate	-	-	Readily		

### **Bioaccumulative potential**

Date of issue/Date of revision

# Section 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential
Water	-1.38	-	low

<u>Mobility in soil</u>	
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. ŝ, 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 nonrecyclable 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. 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	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information	Classification per the current revision, Transportation of Dangerous Goods Regulation, Part 2, Sec 2.3.	-	-	-	-

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 available. to Annex II of MARPOL and the IBC Code

# Section 15. Regulatory information

<u>Canadian lists</u>		
Canadian NPRI	: The following components are listed: Total of ammonia (NH3 — CAS RN 7664-41-7) and the ammonium ion (NH4+ — CAS RN 14798-03-9) in soluti expressed as ammonia.	on,
CEPA Toxic substances	: None of the components are listed.	
Canada inventory	: All components are listed or exempted.	
International regulations		
Chemical Weapon Convent Not listed.	on List Schedules I, II & III Chemicals	
Montreal Protocol Not listed.		
Stockholm Convention on I Not listed.	ersistent Organic Pollutants	
Rotterdam Convention on I	rior Informed Consent (PIC)	
Not listed.		
UNECE Aarhus Protocol on	POPs and Hoavy Motals	
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	: Not determined.	
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 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	
SARA 304 RQ	:	
<u>SARA 311/312</u>		
Classification	: Immediate (acute) health hazard	
Composition/information o	<u>ingredients</u>	
Date of issue/Date of revision	: 3/25/2021 Date of previous issue : 5/23/2019 Version : 2.	1 11/1

## Section 15. Regulatory information

Name	%		Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard.
Ammonium nitrate	54	No.	No.	No.	Yes.	No.

#### **SARA 313**

	Product name	CAS number	%
Form R - Reporting requirements	Ammonium nitrate	6484-52-2	54
Supplier notification	Ammonium nitrate	6484-52-2	54

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: Ammonium nitrate	
New York	: None of the components are listed.	
New Jersey	: The following components are listed: Ammonium nitrate; Nitric acid ammonium salt.	
Pennsylvania	: The following components are listed: Nitric acid ammonium salt.	
<u>California Prop. 65</u>	: 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

Η	is	to	ry	

Date of issue/Date of revision	: 3/25/2021
Date of previous issue	: 5/23/2019
Version	: 2.1

#### ✓ Indicates information that has changed from previously issued version.

Key to abbreviations	<ul> <li>ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = 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) LIN = United Nations</li> </ul>
	UN = United Nations HPR = Hazardous Products Regulations

#### Procedure used to derive the classification

Classification	Justification
EYE IRRITATION - Category 2B	Weight of evidence

### Section 16. Other information

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;
	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	

Supply chain partners must ensure they pass this SDS, and all other relevant safety information to their customers.

#### DISCLAIMER AND LIMITATION OF LIABILITY

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## Section 16. Other information

**RECOMMENDATIONS.** This SDS is not a guarantee of safety. A buyer or user of the Material (a "Recipient") is responsible for ensuring that it has all current information necessary to safely use the Material for its specific purpose.

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