

# **SAFETY DATA SHEET**

### **Rainbow® Plant Food Onion 6-12-18**

# Section 1. Identification

GHS product identifier	Rainbow® Plant Food Onion 6-12-18
Other means of identification	Product code(s): I000049
Product type	Granular solid.

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

Identified uses	
Fertilizer.	
Uses advised against	Reason
Not applicable.	Non-hazardous product.

Supplier's details	: Rainbow Fertilizer LLC (a Division of Timac Agro USA) 1011 Oak Avenue Americus, GA 31709
	Company phone number: 1-800-403-2861 (Customer Service)
	www.rainbowplantfoodproducts.com
Emergency telephone number (with hours of operation)	: USA POISON CONTROL CENTER (24h/7d) 1-800-222-1222

Section 2. Hazard	: While this material is not considered hazardous by the OSHA Hazard Communication
	Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture	: Not classified. Non-hazardous product.
GHS label elements	
Hazard pictograms	: Not Applicable.
	No Aplicable.
	Non applicable.
Signal word	: No signal word.
Hazard statements	: Not applicable.
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	: Not applicable.
Date of issue/Date of revision	: 2/25/2022 Date of previous issue : 5/2/2019 Version : 2.1 1/1

### Section 2. Hazards identification

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Hazards not otherwise classified	: Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.
Disposal	: Not applicable.
Storage	: Not applicable.
Response	: Not applicable.

### Section 3. Composition/information on ingredients

: See below.

Substance/mixture

: Multi-constituent substance

#### CAS number/other identifiers

CAS number

Ingredient name	%	CAS number
Potassium chloride	27 - 28	7447-40-7
Ammonium dihydrogen orthophosphate	18 - 19	7722-76-1
Limestone	16 - 17	1317-65-3
Calcium sulfate, dihydrate	9 - 10	10101-41-4
Potassium magnesium sulfate	9 - 10	14977-37-8
Diammonium phosphate	7 - 8	7783-28-0
Ammonium sulfate	7 - 8	7783-20-2
Ammonium nitrate	3 - 4	6484-52-2

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	<ul> <li>No known significant effects or critical hazards. May cause irritation due to mechanical action. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. If irritation persists, get medical attention.</li> </ul>
Inhalation	<ul> <li>Non-hazardous in case of inhalation. No known significant effects or critical hazards. Get medical attention if symptoms occur.</li> <li>In a fire, hazardous decomposition products may be produced. If any ill effects are felt, proceed as follows. If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. For additional advice call the medical emergency number on this SDS or your poison center or doctor.</li> </ul>
Skin contact	: No known effect after skin contact. Rinse with water for a few minutes.
Ingestion	: Ingestion may cause gastrointestinal irritation and diarrhea. Wash out mouth with water. Never give anything by mouth to an unconscious person. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. 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 healt	n effects
Eye contact	: May cause irritation due to mechanical action.
Inhalation	: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: May cause irritation of the digestive tract with accompanying nausea, vomiting and diarrhea.

Over-exposure signs/symptoms

# Section 4. First aid measures

: Adverse symptoms may include the following: irritation watering redness
: Adverse symptoms may include the following: respiratory tract irritation coughing
: No specific data.
: No specific data.
<ul> <li>dical attention and special treatment needed, if necessary</li> <li>In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.</li> </ul>
: No specific treatment. Treat symptomatically.
: 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 a respirator or 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	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: No specific fire or explosion hazard. The substance will not burn. Undergoes thermal decomposition at elevated temperatures to release toxic and flammable gases.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: nitrogen oxides sulfur oxides
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	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Remark	: Contain and collect the water used to fight the fire for later treatment and disposal.

# Section 6. Accidental release measures

Personal precautions, protect	equipment and emergency procedures	
For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Kee unnecessary and unprotected personnel from entering. Avoid breathing dust. Provi adequate ventilation. Wear appropriate respirator when ventilation is inadequate. For appropriate personal protective equipment.	de
For emergency responders	If specialized clothing is required to deal with the spillage, take note of any informati Section 8 on suitable and unsuitable materials. See also the information in "For nor emergency personnel".	
Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drain and sewers. Will dissolve and disperse in water. Reclaiming material may not be possible. If possible, recover spilled product and place in suitable containers for rec reuse, or disposal. Product will promote algae growth and may degrade water quali and taste. Notify downstream water users. Inform the relevant authorities if the pro has caused adverse impacts (sewers, waterways, soil or air).	ycle, ty
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### Section 6. Accidental release measures

#### Methods and materials for containment and cleaning up

Small spill	<ul> <li>Move containers from spill area. Avoid dust generation. Recycle, if possible. or Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.</li> </ul>
Large spill	: Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Avoid creating dusty conditions and prevent wind dispersal. Recycle to process, if possible. or Place spilled material in an appropriate container for disposal. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

#### Precautions for safe handling : Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid **Protective measures** contact with eyes, skin and clothing. Avoid breathing dust. : Eating, drinking and smoking should be prohibited in areas where this material is Advice on general handled, stored and processed. Workers should wash hands and face before eating, occupational hygiene drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Store in accordance with local regulations. May form steep piles that can collapse Conditions for safe storage, including any without warning when transported or stored in bulk. This may damage equipment and endanger workers. The risk of cliffing and sudden collapse increases if product is loaded incompatibilities or stored when hot or in high humidity conditions. Avoid forming steep slopes when removing product. If product has caked, cliffed, or has adhered to the storage or transport container, stay out of the potential engulfment zone in case the material collapses. Do not enter bins, railcars or trucks without conducting a risk assessment and following all confined space entry requirements. Ensure that consideration is given to fall protection and mobile equipment securement if applicable. Carefully loosen the set product from outside the container using mechanical vibration, sledge hammers, or other devices. Ensure that bulk bags or smaller packaged products stored in tiers are stacked, racked, blocked, interlocked, or otherwise secured to prevent sliding, rolling, or collapse. Use caution when opening truck or railcar doors as product may have shifted during transport. Must be stored in a dry location. Absorbs moisture on long-term storage under high humidity conditions. Store away from incompatible materials (see Section 10). When product is stored in sealable containers, keep container tightly closed and sealed until ready for use. Sealable 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.

### Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name		Exposure limits				
Potassium chloride			OSHA (United States): Particulates not otherwise regulated (PNOR) TWA (8 hours), Total dust: 15 mg/m <sup>3</sup> ; Respirable fraction: 5 mg/m <sup>3</sup> .			
Ammonium dihydrogen ortho	phosphate	<b>OSHA (United States):</b> Particulates not otherwise regulated (PNOR) TWA (8 hours), Total dust: 15 mg/m <sup>3</sup> ; Respirable fraction: 5 mg/m <sup>3</sup> .				
Dolomite		<b>OSHA (United States):</b> Particulates not otherwise regulated (PNOR) TWA (8 hours), Total dust: 15 mg/m <sup>3</sup> ; Respirable fraction: 5 mg/m <sup>3</sup> .				
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# Section 8. Exposure controls/personal protection

Calcium sulfate, dihydrate	ACGIH TLV (United States, 4/2014).
	TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Inhalable
	fraction
Potassium magnesium sulfate	OSHA (United States):
	Particulates not otherwise regulated (PNOR)
	TWA (8 hours), Total dust: 15 mg/m <sup>3</sup> ;
	Respirable fraction: 5 mg/m <sup>3</sup> .
Diammonium phosphate	OSHA (United States):
	Particulates not otherwise regulated (PNOR)
	TWA (8 hours), Total dust: 15 mg/m <sup>3</sup> ;
	Respirable fraction: 5 mg/m <sup>3</sup> .
Ammonium sulfate	OSHA (United States):
	Particulates not otherwise regulated (PNOR)
	TWA (8 hours), Total dust: 15 mg/m <sup>3</sup> ;
	Respirable fraction: 5 mg/m <sup>3</sup> .
Ammonium nitrate	OSHA (United States):
	Particulates not otherwise regulated (PNOR)
	TWA (8 hours), Total dust: 15 mg/m <sup>3</sup> ;
	Respirable fraction: 5 mg/m <sup>3</sup> .

Appropriate engineering controls	: Use only with adequate ventilation. 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. Wash contaminated clothing before reusing.
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: safety glasses with side-shields. If operating conditions cause high dust concentrations to be produced, use dust goggles.
Skin protection		
Hand protection	:	The personal protective equipment required varies, depending upon your risk assessment. No special protection is required. For prolonged or repeated handling, use the following type of gloves: leather work gloves
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. Cotton or cotton/synthetic overalls or coveralls are normally suitable.
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. No special measures are typically indicated.
Respiratory protection	:	A respirator is not needed under normal and intended conditions of product use. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Contact your personal protective equipment manufacturer to verify the compatibility of the equipment for the intended purpose. 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	:	Granular solid.
Color	:	Brown to Gray.
Odor	:	Odorless.
Odor threshold	:	Not applicable.
рН	:	6 [Conc. (% w/w): 10%]
Melting point	:	Not available.
Boiling point	:	Decomposes.
Flash point	:	[Product does not sustain combustion.]
Evaporation rate	:	Not applicable.
Flammability (solid, gas)	1	Not applicable. The substance will not burn. Undergoes thermal decomposition at elevated temperatures to release toxic and flammable gases.
Lower and upper explosive (flammable) limits	1	Not applicable.
Vapor pressure	:	Not applicable.
Vapor density	:	Not applicable.
Relative density	:	Not available.
Solubility	1	Easily soluble in the following materials: hot water. Soluble in the following materials: cold water.
Solubility in water	:	Water soluble.
Partition coefficient: n- octanol/water	1	Not available.
Auto-ignition temperature	:	Not applicable.
Decomposition temperature	:	Not available.
Viscosity	:	Not applicable.
Aerosol product		

# Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
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	: Absorbs moisture on long-term storage under high humidity conditions. Store in a well- ventilated, dry place. Protect from moisture.
Incompatible materials	: Incompatible with halogens. Incompatible with oxidizers
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

Product/ingredient name	Result	Species	Dose	Exposure
Potassium chloride	LD50 Oral	Rat	2600 mg/kg	-
Ammonium dihydrogen orthophosphate	LD50 Oral	Rat - Male, Female	>2000 mg/kg	-
Calcium sulfate, dihydrate	LC50 Inhalation Dusts and mists	Rat - Male, Female	>3.26 mg/l CaSO4.2H2O	4 hours
	LD50 Oral	Rat - Male, Female	1581 mg/kg	-
Ammonium sulfate	LD50 Oral	Mouse - Male,	3040 mg/kg	-
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# Section 11. Toxicological information

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		Female		
	LD50 Oral	Rat	2840 mg/kg	-
	LD50 Oral	Rat - Male,	>2000 mg/kg	-
		Female		
Potassium magnesium sulfate	LD50 Oral	Rat	3 g/kg	-
Diammonium phosphate	LC50 Inhalation Dusts and mists	Rat - Male,	>5 mg/l	4 hours
		Female		
	LD50 Dermal	Rat - Male,	>5000 mg/kg	-
		Female		
	LD50 Oral	Rat - Male,	>2000 mg/kg	-
		Female		
Ammonium nitrate	LD50 Oral	Rat	2217 mg/kg	-
	LD50 Oral	Rat - Male,	2950 mg/kg	-
		Female		

### Conclusion/Summary

: Very low toxicity to humans or animals. No known significant effects or critical hazards.

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Ammonium sulfate	Skin	Rabbit	0	20 hours	24 hours
	Eyes	Rabbit	0	-	72 hours

#### **Conclusion/Summary**

: No known significant effects or critical hazards.

Eyes Respiratory

Skin

No known significant effects or critical hazards.No known significant effects or critical hazards.

#### **Sensitization**

Product/ingredient name	Route of exposure	Species	Result
Calcium sulfate, dihydrate Ammonium sulfate Diammonium phosphate Ammonium nitrate	skin skin skin skin	Guinea pig Mouse	Not sensitizing Not sensitizing Not sensitizing Not sensitizing

#### Conclusion/Summary

Skin

- : Non-sensitizer.
- Respiratory

: No known significant effects or critical hazards.

### Mutagenicity

Product/ingredient name	Test	Expe	riment		Resu	lt
Potassium chloride	-	Subje	Experiment: In vivo Subject: Mammalian-Animal Cell: Somatic			tive
Calcium sulfate, dihydrate	OECD 476 <i>In vitro</i> Mammalian Cell Gene Mutation Test	Subje	Experiment: In vitro Subject: Mammalian-Animal Cell: Germ			tive
Ammonium sulfate	OECD 476	Subje	Experiment: In vitro Subject: Mammalian-Animal Cell: Somatic			tive
	OECD 473	Experiment: In vitro Subject: Mammalian-Animal Cell: Germ		Negative		
Diammonium phosphate	471 Bacterial Reverse Mutation Test	Subje	Subject: Bacteria		Nega	tive
Ammonium nitrate	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria			Nega	tive
	OECD 476 <i>In vitro</i> Mammalian Cell Gene Mutation Test	n vitro Experiment: In vitro Cell Gene Subject: Mammalian-Animal		nal	Negat	tive
Conclusion/Summary Carcinogenicity	: No known significant ef	fects or	critical hazards.			
Product/ingredient name	Result		Species	Dose		Exposure

Product/ingredient name	Result	S	Species	Dose	Exposure	
Ammonium sulfate	Negative - C		Rat - Male, Female	1288 mg/kg	2 years; 7 o per week	days
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## Section 11. Toxicological information

#### **Conclusion/Summary**

: No known significant effects or critical hazards. Potential for nitrosamine formation if ingested. Do not ingest.

#### **Classification**

Ammonium sulfate None	Product/ingredient name	OSHA	IARC	NTP
	Ammonium sulfate	None.	-	-

#### **Reproductive toxicity**

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
Calcium sulfate, dihydrate Ammonium sulfate	Negative Negative	Negative Negative	Negative -	Rat - Male, Female Mouse - Male, Female	Oral Oral: 5000 mg/ kg	-
Diammonium phosphate	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 sulfate	- 3	Rat - Male, 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 entry anticipated: Inhalation.

#### routes of exposure Potential acute health effects

i otentiai acute nearth	enects
Eye contact	: May cause irritation due to mechanical action.
Inhalation	: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: May cause irritation of the digestive tract with accompanying nausea, vomiting and diarrhea.

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

Eye contact	: Adverse symptoms may include the following: irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: No specific data.
Ingestion	: No specific data.

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

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# Section 11. Toxicological information

Potential immediate effects	:	Acute or intermediate exposure to excess manganese affects the respiratory system and the central nervous system. Inflammation of the lungs may occur after acute toxic inhalation. "Manganese pneumonia" has been reported in mine workers with clinical signs of alveolar inflammation, marked dyspnea, shallow respiration, facial cyanosis and an increased susceptibility to infection. Acute renal failure, abdominal pain, and mild methemoglobinemia have been reported following the ingestion of manganese- containing products. These effects have not been associated with the low solubility substance used in this product.
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate effects	1	Not available.
Potential delayed effects	:	Inhalation of large quantities of manganese containing dust over many years may result in damage to the central nervous system, with symptoms of sleepiness, tremors and weakness in the legs, slurred speech, emotional disturbances, loss of balance, and in more advanced cases, an irreversible condition with symptoms similar to Parkinsons or Lou Gehrig's disease, including a mask-like facial expression, spastic gait, tremors, slurred speech, fatigue, anorexia, apathy, and inability to concentrate in more advanced cases. The neurologic disorder that develops is known as "manganism". A syndrome may develop with symptoms of compulsive behavior, emotional volatility and hallucinations. High levels of manganese in the blood may increase anemia by interfering with iron absorption. Iron deficiency may increase an individual's susceptibility to manganese. Studies suggest that populations at risk of adverse effects due to manganese exposure are infants, and those with existing iron deficiency. These effects have not been associated with the low solubility substance used in this product.

#### Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure
Potassium chloride	Chronic NOAEL Oral	Rat - Male	1820 mg/kg	-
Ammonium sulfate	Chronic NOAEL Oral	Rat - Male, Female	256 mg/kg	52 weeks; 7 days per week
Diammonium phosphate	Chronic NOAEL Oral	Rat - Male, Female	250 mg/kg	-
Ammonium nitrate	Chronic NOAEL Oral	Rat - Male, Female	256 mg/kg	-
Conclusion/Summary	: No known significant effect	ts or critical hazards.	·	
General	: No known significant effect	ts 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.			
Developmental effects	: No known significant effects or critical hazards.			
Fertility effects	: No known significant effect	ts or critical hazards.		

#### Numerical measures of toxicity

Acute toxicity estimates
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Route	ATE value
Oral	4738.8 mg/kg

# Section 12. Ecological information

**Toxicity** 

# Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure
Potassium chloride	Acute EC50 1337000 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute EC50 9.24 g/L Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Acute EC50 83000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 9.68 mg/l Fresh water	Crustaceans - Pseudosida ramosa - Neonate	48 hours
	Acute LC50 435000 µg/l Fresh water	Fish - Gambusia affinis - Adult	96 hours
Calcium sulfate, dihydrate	EC50 >79 mg/l	Algae	72 hours
· · ·	EC50 >79 mg/l	Daphnia	48 hours
	EC50 >790 mg/l	Micro-organism	3 hours
	Acute LC50 >1970 mg/l	Fish	96 hours
Ammonium sulfate	Acute LC50 2.6 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Young	48 hours
	Acute LC50 14000 µg/l Fresh water	Daphnia - Daphnia magna - Young	48 hours
	Acute LC50 68 µg/l Fresh water	Fish - Oncorhynchus gorbuscha - Alevin	96 hours
	Acute LC50 53 mg/l	Fish - Oncorhynchus mykis	96 hours
	Chronic NOEC 143 µg/l Marine water	Fish - Salmo salar - Post-smolt	5 weeks
Diammonium phosphate	Acute LC50 1700 mg/l Fresh water	Fish - Cirrhinus mrigala/L. Rohita - Fry	96 hours
Ammonium nitrate	Chronic NOEC 6 to 12 mg/l Fresh water	Crustaceans - Cladocera	21 days

Conclusion/Summary

: May be harmful to the environment if released in large quantities. Excessive nutrient runoff to a body of water may result in eutrophication.

#### Persistence and degradability

Not available.

### Bioaccumulative potential

Not available.

Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: 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 packaging should be recycled. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-	-
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#### -41 - -- **4** 4 Transport information

Section 14. Transport information						
Packing group	-	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.	No.
Additional information	-	-	-	-	-	-

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.

# Section 15. Regulatory information

U.S. Federal Regulations:	1	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 304 RQ	:	Not applicable.
<u>SARA 311/312</u>		
Classification	:	Not applicable.
<u>SARA 313</u>		

	Product name	CAS number	%
Form R - Reporting requirements	Ammonium dihydrogen orthophosphate	7722-76-1	18 - 19
	Ammonium sulfate	7783-20-2	7 - 8
	Diammonium hydrogenorthophosphate	7783-28-0	7 - 8
	Ammonium nitrate	6484-52-2	3.1
Supplier notification	Ammonium dihydrogen orthophosphate	7722-76-1	18 - 19
	Ammonium sulfate	7783-20-2	7 - 8
	Diammonium hydrogenorthophosphate	7783-28-0	7 - 8
	Ammonium nitrate	6484-52-2	3.1

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 sulfate; Calcium carbonate; Ammonium nitrate
New York	: None of the components are listed.
New Jersey	: The following components are listed: Ammonium nitrate; Nitric acid, ammonium salt; Calcium carbonate; Limestone
Pennsylvania	<ul> <li>The following components are listed: Sulfuric acid diammonium salt; Nitric acid, ammonium salt; Limestone</li> </ul>
California Prop. 65	

Not applicable – This product is not registered for sale into the State of California and has not been evaluated for Prop 65 notification requirements.

#### International regulations

#### International lists

**National inventory** 

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### Section 15. Regulatory information

Canada
Europe

- : All components are listed or exempted.
- : Not determined.

### Section 16. Other information

#### **History**

<u>History</u>	
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Version	: 2.1
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 = International Air Transport Association 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
References	<ul> <li>Transportation of Dangerous Goods Act and Clear Language Regulations, current edition at time of SDS preparation, Transport Canada;</li> <li>Hazardous Products Act and Regulations, current revision at time of SDS preparation, Health Canada;</li> <li>Domestic Substances List, current revision at time of SDS preparation, U.S. Occupational Safety and Health Administration;</li> <li>40 CFR Parts 1-799, current revision at time of SDS preparation, U.S. Department of Transport;</li> <li>49 CFR Parts 1-199, current revision at time of SDS preparation, U.S. Department of Transport;</li> <li>Mexican Official Standard NOM-018-STPS-2015, Harmonised System for the Identification and Communication of Hazards and Risks by Hazardous Chemicals in the Workplace;</li> <li>NORMA Oficial Mexicana NOM-010-STPS-2014, Agentes químicos contaminantes del ambiente laboral-Reconocimiento, evaluación y control.</li> <li>Mexican Official Standard NOM-002-SCT / 2011, List of the most commonly transported hazardous substances and materials;</li> <li>Threshold Limit Values for Chemical Substances, current edition at time of SDS preparation, KIPPA 400, National Fire Codes, National Fire Protection Association, current edition at time of SDS preparation;</li> <li>Corrosion Data Survey, Sixth Edition, 1985, National Association of Corrosion Engineers;</li> <li>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</li> <li>Intergreted Risk Information System, current revision at time of SDS preparation, Mational Fire Codes, National Fire Protection Association, Current edition at time of SDS preparation;</li> <li>Corrosion Data Survey, Sixth Edition, 1985, National Association of Mexico Hazardous Substances Data Bank, current revision at time of SDS preparation, N</li></ul>
	California Code of Regulations, Title 27, Div 4, Chapter 1, Proposition 65 Aug 30, 2018 rev and current updates
	nat has changed from previously issued version.
Notice to reader	

### Notice to reader

Date of issue/Date of revision	Date o	f issue	Date of	<sup>revision</sup>	
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### Section 16. Other information

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