RAINBOW

SAFETY DATA SHEET

International Plant Food 14-7-14 Pecan

Section 1. Identification

GHS product identifier

Other means of identification

: International Plant Food 14-7-14 Pecan

Product code(s): I000040; I000041

Product type

· Granular solid.

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) : VUSA POISON CONTROL CENTER (24h/7d)

1-800-222-1222

Section 2. Hazards identification

OSHA/HCS status

: 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.

This substance is not classified as Hazardous under HazCom 2012 and WHMIS 2015.

GHS label elements

Hazard pictograms : Not Applicable.

No Aplicable.
Non applicable.

Signal word

: No signal word.

Hazard statements

: No known significant effects or critical hazards.

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.Response: Not applicable.Storage: Not applicable.Disposal: Not applicable.

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.

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Section 3. Composition/information on ingredients

: Multi-constituent substance Substance/mixture

CAS number/other identifiers

CAS number : Not available.

Ingredient name	%	CAS number
Ammonium sulfate	50 - 51	7783-20-2
Potassium chloride	23 - 24	7447-40-7
Ammonium dihydrogen orthophosphate	14	7722-76-1
Ammonium nitrate	5 - 6	6484-52-2
Calcium carbonate	1 - 2.5	471-34-1
Zinc oxide	1 - 2.5	1314-13-2
Iron oxide	<2	1332-37-2

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

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower Eye contact

eyelids. Check for and remove any contact lenses. Get medical attention if irritation

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.

: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Skin contact

Get medical attention if symptoms occur.

: Wash out mouth with water. Remove dentures if any. If material has been swallowed Ingestion

and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. 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. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Exposure to airborne concentrations above statutory or recommended exposure limits

may cause irritation of the eyes.

: Exposure to airborne concentrations above statutory or recommended exposure limits Inhalation

may cause irritation of the nose, throat and lungs.

Skin contact : No known significant effects or critical hazards. Ingestion

: No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:

irritation redness

: Adverse symptoms may include the following: Inhalation

respiratory tract irritation

coughing

Skin contact : No specific data. : No specific data. Ingestion

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

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Section 4. First aid measures

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. 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.

Specific treatments

- : No specific treatment.
- **Protection of first-aiders**
- : No action shall be taken involving any personal risk or without suitable training. Mouthto-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

Unsuitable extinguishing media

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

surrounding fire.

: None known.

Specific hazards arising from the chemical

Hazardous thermal decomposition products

- : No specific fire or explosion hazard.
- : Decomposition products may include the following materials:

carbon dioxide carbon monoxide 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

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, 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. Do not touch or walk through spilled material. Avoid breathing dust. 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 nonemergency 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

Small spill

: Move containers from spill area. Use appropriate equipment to put the spilled substance in a container for reuse or disposal. Recycle, if possible. Dispose of via a licensed waste disposal contractor.

Large spill

: Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Avoid creating dusty conditions and prevent wind dispersal. Use appropriate equipment to put the spilled substance in a container for reuse or disposal. Recycle to process, if possible.

Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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Section 7. Handling and storage

Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust.

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. May form steep piles that can collapse without warning when stored in bulk. Avoid forming steep slopes when removing product. 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
U.S. Federal Regulations:	
Ammonium sulfate	OSHA (United States): Particulates not otherwise regulated (PNOR) TWA (8 hours), Total dust: 15 mg/m³; Respirable fraction: 5 mg/m³.
Potassium chloride	OSHA PEL (United States). TWA: 15 mg/m³, (Particulates not otherwise regulated (PNOR) Total particulates) 8 hours.
Ammonium dihydrogen orthophosphate	OSHA (United States): Particulates not otherwise regulated (PNOR) TWA (8 hours), Total dust: 15 mg/m³; Respirable fraction: 5 mg/m³.
Ammonium nitrate	OSHA (United States): Particulates not otherwise regulated (PNOR) TWA (8 hours), Total dust: 15 mg/m³; Respirable fraction: 5 mg/m³.
Calcium carbonate	OSHA PEL (United States, 2/2013). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 15 mg/m³ 8 hours. Form: Total dust
Zinc oxide	NIOSH REL (United States, 10/2013). CEIL: 15 mg/m³ Form: Dust TWA: 5 mg/m³ 10 hours. Form: Dust and fumes STEL: 10 mg/m³ 15 minutes. Form: Fume OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m³ 8 hours. Form: Fume STEL: 10 mg/m³ 15 minutes. Form: Fume TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 10 mg/m³ 8 hours. Form: Total dust OSHA PEL (United States, 2/2013). TWA: 5 mg/m³ 8 hours. Form: Fume TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 15 mg/m³ 8 hours. Form: Total dust ACGIH TLV (United States, 4/2014).

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Section 8. Exposure controls/personal protection

TWA: 2 mg/m³ 8 hours. Form: Respirable fraction
STEL: 10 mg/m³ 15 minutes. Form: Respirable fraction

OSHA (United States):
Particulates not otherwise regulated (PNOR) TWA (8 hours), Total dust: 15 mg/m³; Respirable fraction: 5 mg/m³.

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: sealed eyewear 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. 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. Recommended: Safety shoes or boots.

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.

Section 9. Physical and chemical properties

Appearance

Physical state : Solid. [Granular solid.]

Color : Gray

Odor : Not available. **Odor threshold** : Not available. Hq : Not available. **Melting point** : Not available. **Boiling point** : Not available. Flash point : Not applicable. : Not available. **Evaporation rate** Flammability (solid, gas) : Not available.

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Section 9. Physical and chemical properties

Lower and upper explosive

(flammable) limits

: Not available.

Vapor pressure: Not available.Vapor density: Not available.Relative density: Not available.

Solubility : Soluble in the following materials: cold water and hot water.

Partition coefficient: n-

octanol/water

Viscosity

: Not available.

Auto-ignition temperature : Not applicable.

Decomposition temperature : Not available.

: Not available.

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 dry,

cool and well-ventilated area.

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

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Ammonium sulfate	LD50 Oral	Mouse - Male, Female	3040 mg/kg	-
	LD50 Oral	Rat	2840 mg/kg	-
	LD50 Oral	Rat - Male, Female	>2000 mg/kg	-
Potassium chloride	LD50 Oral	Rat	2600 mg/kg	-
Ammonium dihydrogen orthophosphate	LD50 Oral	Rat - Male, Female	>2000 mg/kg	-
Ammonium nitrate	LD50 Oral	Rat	2217 mg/kg	-
	LD50 Oral	Rat - Male, Female	2950 mg/kg	-
Calcium carbonate	LD50 Oral	Rat	6450 mg/kg	-

Conclusion/Summary

: Not considered to be acutely toxic.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Ammonium sulfate	Skin	Rabbit	0	20 hours	24 hours
	Eyes	Rabbit	0	-	72 hours
Potassium chloride	Eyes	Rabbit	0	24 hours 500 milligrams	-
Ammonium nitrate	Skin - Edema	Rabbit	0	-	72 hours
	Eyes - Edema of the conjunctivae	Rabbit	3	-	3 days
Calcium carbonate	Eyes	Rabbit	0	24 hours 750 Micrograms	-

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Section 11. Toxicological information

	Skin	Rabbit		24 hours 500	-
				milligrams	
Zinc oxide	Eyes	Rabbit	0	24 hours 500	-
				milligrams	
	Skin	Rabbit	0	24 hours 500	-
				milligrams	

Conclusion/Summary

Skin: May cause irritation due to mechanical action.

Eyes: May cause irritation due to mechanical action. Effects are not sufficient for classification

as hazardous

Respiratory : No known significant effects or critical hazards. Handling and/or processing of this

material may generate a dust which can cause mechanical irritation of the eyes, skin,

nose and throat.

Sensitization

Product/ingredient name	Route of exposure	Species	Result
Ammonium sulfate Ammonium nitrate		, ,	Not sensitizing Not sensitizing

Conclusion/Summary

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

Mutagenicity

Product/ingredient name	Test	Experiment	Result
Ammonium sulfate	OECD 476	Experiment: In vitro Subject: Mammalian-Animal Cell: Somatic	Negative
	OECD 473	Experiment: In vitro Subject: Mammalian-Animal Cell: Germ	Negative
Potassium chloride	-	Experiment: In vivo Subject: Mammalian-Animal Cell: Somatic	Negative
Ammonium nitrate	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	Negative
	OECD 476 <i>In vitro</i> Mammalian Cell Gene Mutation Test	Experiment: In vitro Subject: Mammalian-Animal	Negative

Conclusion/Summary

: No known significant effects or critical hazards.

Carcinogenicity

Product/ingredient name	Result	Species	Dose	Exposure
Ammonium sulfate	Negative - Oral - TCLo	Rat - Male, Female	1288 mg/kg	2 years; 7 days per week
Potassium chloride	Negative - Oral - TDLo	Rat - Male	1820 mg/kg	-

Conclusion/Summary

: Potential for nitrosamine formation if ingested. Do not ingest.

Classification

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

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
Ammonium sulfate	Negative	Negative	-	Mouse - Male, Female	Oral: 5000 mg/ kg	-

Conclusion/Summary

: No known significant effects or critical hazards.

Teratogenicity

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Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
Ammonium sulfate	1 3 1 1 1	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

: Inhalation (dusts and mists)

routes of exposure

Skin contact

Potential acute health effects

Eye contact : Exposure to airborne concentrations above statutory or recommended exposure limits

may cause irritation of the eyes.

Inhalation : Exposure to airborne concentrations above statutory or recommended exposure limits

may cause irritation of the nose, throat and lungs.

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

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: Adverse symptoms may include the following:

irritation 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

Potential immediate

: See above.

effects

Potential delayed effects : See above.

Long term exposure

Potential immediate

: See above.

effects

Potential delayed effects : See below.

Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure
Ammonium sulfate	Chronic NOAEL Oral	Rat - Male,	256 mg/kg	52 weeks; 7 days
		Female		per week
Potassium chloride	Chronic NOAEL Oral	Rat - Male	1820 mg/kg	-
Ammonium nitrate	Chronic NOAEL Oral	Rat - Male,	256 mg/kg	-
		Female		

Conclusion/Summary

: No known significant effects or critical hazards.

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

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Section 11. Toxicological information

Fertility effects

: No known significant effects or critical hazards.

Numerical measures of toxicity
Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Acute LC50 2.6 mg/l Fresh water	Omenta a company of the design	
	Crustaceans - Ceriodaphnia dubia - Young	48 hours
Acute LC50 14000 μg/l Fresh water	Daphnia - Daphnia magna -	48 hours
Acute LC50 53 mg/l		96 hours
		96 hours
Acute EC50 9.24 g/L Fresh water	Algae - Desmodesmus	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
Chronic NOEC 6 to 12 mg/l Fresh water	Crustaceans - Cladocera	21 days
Acute LC50 >56000000 µg/l Fresh water	Fish - Gambusia affinis - Adult	96 hours
Chronic NOEC 61 mg/g Fresh water	Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling)	28 days
Acute EC50 0.042 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth	72 hours
Acute LC50 98 μg/l Fresh water	Daphnia - Daphnia magna -	48 hours
Acute LC50 1.1 ppm Fresh water		96 hours
Chronic NOEC 0.017 mg/l Fresh water		72 hours
	subcapitata - Exponential growth phase	
	Acute LC50 53 mg/l Acute EC50 1337000 µg/l Fresh water Acute EC50 9.24 g/L Fresh water Acute EC50 83000 µg/l Fresh water Acute LC50 9.68 mg/l Fresh water Acute LC50 435000 µg/l Fresh water Chronic NOEC 6 to 12 mg/l Fresh water Acute LC50 >560000000 µg/l Fresh water Acute LC50 >560000000 µg/l Fresh water Acute LC50 61 mg/g Fresh water Acute EC50 0.042 mg/l Fresh water Acute LC50 98 µg/l Fresh water Acute LC50 1.1 ppm Fresh water	Acute LC50 14000 μg/l Fresh water Acute LC50 53 mg/l Acute EC50 1337000 μg/l Fresh water Acute EC50 9.24 g/L Fresh water Acute EC50 83000 μg/l Fresh water Acute LC50 9.68 mg/l Fresh water Acute LC50 435000 μg/l Fresh water Chronic NOEC 6 to 12 mg/l Fresh water Chronic NOEC 61 mg/g Fresh water Chronic NOEC 61 mg/g Fresh water Acute EC50 9.042 mg/l Fresh water Acute LC50 98 μg/l Fresh water Acute LC50 98 μg/l Fresh water Acute LC50 1.1 ppm Fresh water Acute LC50 1.1 ppm Fresh water Chronic NOEC 0.017 mg/l Fresh water Acute LC50 1.1 ppm Fresh water Acute LC50 1.2 ppm Fresh water Acute LC50 1.3 ppm Fresh water Acute LC50 1.3 ppm Fresh water Acute LC50 1.4 ppm Fresh water Acute LC50 1.5 ppm Fresh water Acut

Conclusion/Summary

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

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Zinc oxide	-	60960	High

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

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

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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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. 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

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	UN3077	UN3077	Not regulated.
UN proper shipping name	-	-	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc oxide)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc oxide)	-
Transport hazard class(es)	-	-	-	9	9	-
Packing group	-	-	-	III	III	-
Environmental hazards	No.	No.	No.	Yes.	Yes.	No.
Additional information	-	Classification per the current revision, Transportation of Dangerous Goods Regulation, Part 2, Sec 2.3.		This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.4, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. Tunnel code	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.	The environmentally hazardous substance mark may appear if required by other transportation regulations.
				(E)		

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.

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Section 15. Regulatory information

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) 307: Zinc oxide

Clean Air Act Section 112

: Not listed

(b) Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602

: Not listed

Class I Substances

Clean Air Act Section 602

: Not listed

Class II Substances
DEA List I Chemicals

: Not listed

(Precursor Chemicals)

. 1401 110100

DEA List II Chemicals

: Not listed

(Essential Chemicals)

: Not applicable.

SARA 304 RQ SARA 311/312 Classification

: Not applicable.

Composition/information on ingredients

Name	%	hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard.
Ammonium nitrate	5 - 6	Yes.	No.	No.	Yes.	No.

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	Ammonium sulfate Ammonium dihydrogen orthophosphate Ammonium nitrate Zinc oxide	7783-20-2 7722-76-1 6484-52-2 1314-13-2	50 - 51 14 5 - 6 1 - 2.5
Supplier notification	Ammonium sulfate Ammonium dihydrogen orthophosphate Ammonium nitrate Zinc oxide	7783-20-2 7722-76-1 6484-52-2 1314-13-2	50 - 51 14 5 - 6 1 - 2.5

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; Ammonium nitrate; Zinc oxide

tume

New Jersey : The following components are listed: Ammonium nitrate; Nitric acid, ammonium salt;

Zinc oxide; Carbonic acid, Zinc salt (1:1)

Pennsylvania ; The following components are listed: Sulfuric acid diammonium salt: Nitric acid,

ammonium salt; Zinc oxide; Carbonic acid, Zinc salt (1:1)

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

Canada : All components are listed or exempted.Europe : All components are listed or exempted.

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Section 16. Other information

History

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Key to abbreviations

: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

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.

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

Indicates information that has changed from previously issued version.

Notice to reader

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Section 16. Other information

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