

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 3/14/2025 Supersedes: 1/10/2022 Version: 1.9

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Product name : Super Rainbow® Plant Food Tobacco 13-0-14

Product code : 1000031; 1000032

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Fertilizer Recommended use : Fertilizers

1.3. Supplier

Rainbow Fertilizer LLC, a division of TIMAC AGRO USA, Inc.

1011 Oak Avenue

Americus, GA 31709, Georgia 31719

USA

T 1-800-763-0334

www.rainbowplantfood.com

1.4. Emergency telephone number

Country/Area	Organization/Company	Address	Emergency number	Comment
Americas	3E		+1-760-476-3962 (Access code : 333021)	(24/7)
USA	USA POISON CONTROL CENTER (24h/7d)		1-800-222-1222	

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Not classified

2.2. GHS Label elements, including precautionary statements

GHS US labeling

No labeling applicable

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

Name	Common Name (Synonyms)	Product identifier	%	GHS US classification
Potassium nitrate prill		CAS-No.: 7757-79-1	10 – 25	Not classified
Calcium sulphate, dihydrate		CAS-No.: 10101-41-4	1 – 5	Not classified
Ammonium nitrate		CAS-No.: 6484-52-2	1 – 5	Ox. Sol. 3, H272 Eye Irrit. 2, H319

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : Call a poison center/doctor/physician if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Seek medical attention if ill

effect develops.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If case of redness or irritation,

call a doctor.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting

without medical advice. Seek medical attention if ill effect develops.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects : see section(s): 2.1/2.3).

Symptoms/effects after inhalation : Dust of the product, if present, may cause respiratory irritation after an excessive inhalation

exposure.

Symptoms/effects after ingestion : None under normal conditions.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : water, carbon dioxide (CO2), powder and foam. Use extinguishing media appropriate for

surrounding fire. Water spray. Dry powder. Foam.

Unsuitable extinguishing media : None known.

5.2. Specific hazards arising from the chemical

Fire hazard : Not flammable. Non oxidizing material.

Explosion hazard : No direct explosion hazard.

Hazardous decomposition products in case of fire : Thermal decomposition generates : fume. Carbon oxides (CO, CO2). Potassium oxides.

Nitrogen oxides. Sulphur oxides. Metal oxides.

5.3. Special protective equipment and precautions for fire-fighters

Precautionary measures fire : Evacuate area. Eliminate all ignition sources if safe to do so.

Firefighting instructions : Contain the extinguishing fluids by bunding. Do not enter fire area without proper protective

equipment, including respiratory protection.

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Protection during firefighting : Do not attempt to take action without suitable protective equipment. Complete protective

clothing. EN 469. Self-contained breathing apparatus.

Other information : Relevant water authorities should be notified of any large spillage to water course or drain.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate area. Notify authorities if product enters sewers or public waters.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Do not breathe dust. Mechanically ventilate the spillage area. Only qualified personnel equipped

with suitable protective equipment may intervene.

6.1.2. For emergency responders

Protective equipment : For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Ventilate area. Dike and contain spill. Evacuate unnecessary personnel.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Mechanically recover the product. Minimize generation of dust. Gather the product and place it in

a spare container that has been suitably labeled.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Do not breathe dust. Avoid contact with skin and

eyes.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Always wash hands after

handling the product. Do not eat, drink or smoke when using this product. Wash contaminated

clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Store in dry, cool, well-ventilated area. Protect from moisture. Keep out of reach of children.

Incompatible products : Refer to the detailed list of incompatible materials in section 10 Stability/Reactivity.

Storage temperature : Store at ambient temperature

Information on mixed storage : Keep away from food, drink and animal feeding stuffs.

Special rules on packaging : Keep only in original container. Store in a closed container.

Packaging materials : Store always product in container of same material as original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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Calcium sulphate, dihydrate (10101-41-4)		
USA - ACGIH - Occupational Exposure Limits		
Local name	Calcium sulfate, the diihydrate	
ACGIH OEL TWA	10 mg/m³ (I - Inhalable particulate matter)	
Remark (ACGIH)	TLV® Basis: Nasal symptoms	
Regulatory reference	ACGIH 2024	
USA - OSHA - Occupational Exposure Limits		
Local name	Calcium sulfate	
OSHA PEL TWA	15 mg/m³ (Total dust) 5 mg/m³ (Respirable fraction)	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1	
Potassium nitrate prill (7757-79-1)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA	15 mg/m³	
Ammonium nitrate (6484-52-2)		
USA - OSHA - Occupational Exposure Limits		
OSHA PEL TWA	25 ppm Ammonia	
OSHA PEL STEL	35 ppm Ammonia	
OSHA PEL (Ceiling)	25 ppm Ammonia	
USA - NIOSH - Occupational Exposure Limits		
NIOSH REL (TWA)	25 ppm Ammonia	
NIOSH REL (STEL)	35 ppm Ammonia	
NIOSH REL (Ceiling)	25 ppm Ammonia	

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station. Local exhaust and general ventilation must be

adequate to meet exposure standards.

Environmental exposure controls : Assure that emissions are compliant with all applicable air pollution control regulations. Comply

with applicable regulations. Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Wear recommended personal protective equipment.

Hand protection:			
Protective gloves	Protective gloves		
Eye protection:			
Safety glasses with side guards should be worn to prevent injury from airborne particles and/or other eye contact with this product. Safety glasses			
Туре	Field of application	Characteristics	
Safety goggles Dust With side shields			
Skin and body protection:			
Protective clothing			

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Туре		
Gloves		
Respiratory protection:		
Where excessive dust may result, wear approved mask		
Device Filter type Condition		
Dust mask	Type P2	Dust protection

Personal protective equipment symbol(s):







Other information:

See Heading 7: 7.1. Precautions for safe handling.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid Appearance Granulate. Color Brown Odor Odorless

Odor threshold No data available

6 рΗ pH solution concentration : 10 %

: No data available Melting point Freezing point : Not applicable Boiling point : No data available : Not applicable Flash point Relative evaporation rate (butyl acetate=1) : No data available

Flammability (solid, gas) In case of excessive dust production: Dust may form flammable and explosive mixture with air.

Vapor pressure No data available Relative vapor density at 20°C No data available Relative density No data available

Solubility Soluble.

Partition coefficient n-octanol/water (Log Pow) No data available Auto-ignition temperature : Not applicable Decomposition temperature No data available Viscosity, kinematic Not applicable Viscosity, dynamic No data available **Explosion limits** Not applicable

Explosive properties Product is not explosive. Oxidizing properties Non oxidizing material.

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

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10.2. Chemical stability

Stable under use and storage conditions as recommended in section 7.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Strong oxidizing agents.

Germ cell mutagenicity

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. In case of fire: See Heading 5.

SECTION 11: Toxicological information

11.1. In	formation on t	toxicologica	I effects

Acute toxicity (oral)	 Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: No experimental study on the product is available. The information given is based on our
	knowledge of the components and the classification of the product is determined by calculation

Additional information	knowledge of the components and the classification of the product is determined by calculation
Calcium sulphate, dihydrate (10101-41-4)	
LD50 oral rat	> 1581 mg/kg body weight (OECD 420 method)
LC50 Inhalation - Rat	> 2.61 mg/l (OECD 403 method)
Potassium nitrate prill (7757-79-1)	
LD50 oral rat	> 2000 mg/kg (OECD 425 method)
LD50 dermal rat	> 5000 mg/kg body weight (OECD 402 method)
LC50 Inhalation - Rat	> 527 mg/m³ (OECD 403 method)
Ammonium nitrate (6484-52-2)	
LD50 oral rat	2950 mg/kg (OECD 401 method)
LD50 dermal rat	> 5000 mg/kg (OECD 402 method)
LC50 Inhalation - Rat	> 88.8 mg/m³
Skin corrosion/irritation	Not classified (Based on available data, the classification criteria are not met) pH: 6
Ammonium nitrate (6484-52-2)	
рН	4.6 – 7.6 95 g/l
Serious eye damage/irritation	Not classified (Based on available data, the classification criteria are not met) pH: 6
Ammonium nitrate (6484-52-2)	
рН	4.6 – 7.6 95 g/l
Respiratory or skin sensitization	Not classified (Based on available data, the classification criteria are not met)

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: Not classified (Based on available data, the classification criteria are not met)

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Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)		
Potassium nitrate prill (7757-79-1)			
NOAEL (chronic,oral,animal/male,2 years)	≥ 1500 mg/kg body weight (OECD 422 method)		
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)		
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)		
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)		
Potassium nitrate prill (7757-79-1)			
NOAEL (subacute,oral,animal/male,28 days)	> 1500 mg/kg body weight		
Ammonium nitrate (6484-52-2)			
NOAEL (subacute,oral,animal/male,28 days)	≥ 1500 mg/kg body weight rat - (OECD 422 method)		
Aspiration hazard Viscosity, kinematic	: Not classified : Not applicable		
Symptoms/effects	: see section(s): 2.1/2.3).		
Symptoms/effects after inhalation	: Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure.		

SECTION 12: Ecological information

Symptoms/effects after ingestion

12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

: None under normal conditions.

Ecology - water : Do not allow large quantities, as are, to spread into the environment. Do not discharge into

drains or rivers.

Calcium sulphate, dihydrate (10101-41-4)		
> 1970 mg/l Pimephales promelas		
> 79 mg/l daphnia, (OECD 202 method)		
> 79 mg/l Selenastrum capricornutum, (OECD 201 method)		
1378 mg/l Poecilia reticula, (OECD 203 method)		
490 mg/l (Daphnia magna, 48h)		
490 mg/l		
1700 mg/l 10 days - (OECD 203 method)		
> 1700 mg/l (OECD 209 method)		
Ammonium nitrate (6484-52-2)		
447 mg/l Cyprinus carpio (Common carp), 48 Hours		
490 mg/l 48 Hours, (Results obtained on a similar product)		
> 1700 mg/l 10 days, (Results obtained on a similar product)		
555 mg/l 168 Hours, Bullia Digitalis		

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12.2. Persistence and degradability

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Persistence and degradability	Not established.	
Calcium sulphate, dihydrate (10101-41-4)		
Persistence and degradability Not established.		
Potassium nitrate prill (7757-79-1)		
Persistence and degradability degradable in water in anaerobic conditions.		
Ammonium nitrate (6484-52-2)		
Persistence and degradability	Not applicable (inorganic substance).	

12.3. Bioaccumulative potential

Super Rainbow® Plant Food Tobacco 13-0-14		
Bioaccumulative potential	Not established.	
Calcium sulphate, dihydrate (10101-41-4)		
Bioaccumulative potential	Bioaccumulation unlikely.	
Potassium nitrate prill (7757-79-1)		
Partition coefficient n-octanol/water (Log Pow)	Not applicable	
Partition coefficient n-octanol/water (Log Kow)	Not applicable	
Bioaccumulative potential	Low bioaccumulation potential.	
Ammonium nitrate (6484-52-2)		
Bioaccumulative potential	Slightly or not bioaccumulative.	

12.4. Mobility in soil

Calcium sulphate, dihydrate (10101-41-4)	
Ecology - soil	Small adsorption.
Potassium nitrate prill (7757-79-1)	
Ecology - soil	Small adsorption. Material highly soluble in water.

12.5. Other adverse effects

Other adverse effects : May cause eutrophication at very low concentration.

Other information : No other effects known.

SECTION 13: Disposal considerations

13.1. Disposal methods

Regional waste regulation : Disposal must be done according to official regulations.

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Sewage disposal recommendations : Disposal must be done according to official regulations.

Product/Packaging disposal recommendations : Discharging into rivers and drains is forbidden. Disposal must be done according to official

regulations.

Additional information : Do not re-use empty containers.

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SECTION 14: Transport information

In accordance with DOT / TMD / IMDG / IATA

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not regulated
Proper Shipping Name (TDG) : Not regulated
Proper Shipping Name (IMDG) : Not regulated
Proper Shipping Name (IATA) : Not regulated

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : Not regulated

TDG

Transport hazard class(es) (TDG) : Not regulated

IMDG

Transport hazard class(es) (IMDG) : Not regulated

IATA

Transport hazard class(es) (IATA) : Not regulated

14.4. Packing group

Packing group (DOT) : Not regulated
Packing group (TDG) : Not regulated
Packing group (IMDG) : Not regulated
Packing group (IATA) : Not regulated

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

DOT

Not regulated

TDG

Not regulated

IMDG

Not regulated

IATA

Not regulated

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

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Name	CAS-No.	Listing	Commercial status	Flags
Calcium sulphate, dihydrate	10101-41-4	Present	Active	
Potassium nitrate prill	7757-79-1	Present	Active	
Ammonium nitrate	6484-52-2	Present	Active	

15.2. International regulations

CANADA

Calcium sulphate, dihydrate (10101-41-4)

Listed on the Canadian DSL (Domestic Substances List)

Potassium nitrate prill (7757-79-1)

Listed on the Canadian DSL (Domestic Substances List)

Ammonium nitrate (6484-52-2)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Super Rainbow® Plant Food Tobacco 13-0-14

Ensure all national/local regulations are observed

Potassium nitrate prill (7757-79-1)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations

No additional information available

SECTION 16: Other information

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Data sources : Section 1.2, 8.1, 11 & 12 are based on components' Chemical Safety Report and/or datas from

components' supplie.

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

Full text of hazard classes and H-statements	
H272	May intensify fire; oxidizer
H319	Causes serious eye irritation

Abbreviations and acronyms	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
LC50	Median lethal concentration

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Abbreviations and acronyms		
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC50	Median effective concentration	
SDS	Safety Data Sheet	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organization for Economic Co-operation and Development	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006	
STP	Sewage treatment plant	
vPvB	Very Persistent and Very Bioaccumulative	

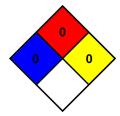
NFPA health hazard : 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.

NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including

intrinsically noncombustible materials such as concrete, stone, and

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire

conditions.



Hazard Rating

Personal protection

: 0 Minimal Hazard - No significant risk to health Health : 0 Minimal Hazard - Materials that will not burn Flammability

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT

react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

: E - Safety glasses, Gloves, Dust respirator

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.