SAFETY DATA SHEET

LIQUID TREE ROOT FEED 15-6-6

Section 1. Identification

Product identifier : LIQUID TREE ROOT FEED 15-6-6

Product code : 1000518261, 1000518273, 1000056863

SDS # : 937

Product type : Liquid.

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

Identified uses
Fertilizer.

Uses advised against
None

Supplier's details : LOVELAND PRODUCTS, INC.
P.O. Box 1286
Greeley, CO 80632-1286

Telephone no. : 1-888-574-2878 (Customer Service)

Email : retail-SDS2@nutrien.com

Emergency telephone number (with hours of operation) : CHEMTREC (24 hrs): 1-800-424-9300 or +1-703-527-3887

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.

GHS label elements

Hazard pictograms : Not applicable.

Signal word : No signal word.

Hazard statements : No known significant effects or critical hazards.

Precautionary statements

Prevention : Not applicable.

Response : Not applicable.

Storage : Not applicable.

Disposal : Not applicable.

Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	% (w/w)	Identifiers
urea	10 - 20	CAS: 57-13-6
potassium thiosulfate	10 - 20	CAS: 10294-66-3
ammonium polyphosphate	5 - 10	CAS: 68333-79-9
triazone	5 - 10	CAS: 7098-14-8
ammonium nitrate	5 - 10	CAS: 6484-52-2
ammonium dihydrogenorthophosphate	1 - 5	CAS: 7722-76-1
diammonium hydrogenorthophosphate	1 - 5	CAS: 7783-28-0

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 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 : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

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.

Ingestion : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : May cause mild eye irritation.

Inhalation : No known significant effects or critical hazards.

Skin contact : May cause slight transient irritation.

Ingestion : Not considered to be toxic to humans. Nitrate based product. May be irritating to mouth, throat and stomach. Over-exposure by ingestion is unlikely under normal working conditions.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:
redness
watering

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : Adverse symptoms may include the following:
nausea or vomiting
stomach pains
diarrhea

Section 4. First aid measures

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

Notes to physician : 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. Decontamination measures may be necessary. Personnel and equipment must be checked and decontaminated prior to leaving the area.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

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

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : Contains an oxidizing substance. Not an oxidizer at the manufactured concentration. It may become an oxidizing liquid if concentrated by evaporation.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
sulfur oxides
phosphorus oxides
ammonia

Special protective actions for fire-fighters : No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Contain and collect the water used to fight the fire for later treatment and disposal.

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.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering.

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

Small spill : 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.

Section 6. Accidental release measures

Large spill : Shut off all ignition sources. No flares, smoking or flames in hazard area. Stop leak if without risk. Do not absorb in sawdust or other combustible material. It may lead to a fire risk when it dries out. Put on appropriate personal protective equipment (see Section 8). Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Use appropriate equipment to put the spilled substance in a container for reuse or disposal. Recycle to process, if possible.
or
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

Protective measures : Read label before use. Apply this product only as specified on the label. Do not handle until all safety precautions have been read and understood. Put on appropriate personal protective equipment (see Section 8).

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. Dangerous if allowed to dry out. Residue may exhibit oxidizing properties. May form corrosive sludge on prolonged storage. Contact your sales representative or a metallurgical specialist to ensure compatibility with your equipment.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

None.

Biological exposure indices

No exposure indices known.

Appropriate engineering controls : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

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

Contact your personal protective equipment supplier to verify the compatibility of the equipment for the intended purpose.

Section 8. Exposure controls/personal protection

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.

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.

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.

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.

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: Use slip resistant footwear.

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.

Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state : Liquid.

Color : Brown. [Dark]

Odor : Slight.

Odor threshold : Not available.

pH : 7.5 to 8

Melting point/freezing point : Not available.

Boiling point or initial boiling point and boiling range : Not available.

Flash point : [Product does not sustain combustion.]

Evaporation rate : Not available.

Flammability : Non-flammable.

Lower and upper explosion limit/flammability limit : Not applicable.

Vapor pressure :

	Vapor Pressure at 20˚C			Vapor pressure at 50˚C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
water	17.5	2.3				

Section 9. Physical and chemical properties and safety characteristics

Relative vapor density : Not available.

Relative density : 1.3 to 1.33

Bulk density : 10.9 to 11.1 lb/gal

Solubility(ies) :

Media	Result
water	Easily soluble

Solubility in water : Not available.

Miscible with water : Yes.

Partition coefficient: n-octanol/water : Not applicable.

Auto-ignition temperature : Not applicable.

Decomposition temperature : Not available.

Viscosity : Not available.

Particle characteristics

Median particle size : Not applicable.

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 : If mixed with chlorine or hypochlorites, it may form nitrogen trichloride which may explode spontaneously in air.

Conditions to avoid : Avoid high temperatures in combination with high pressures. Keep away from heat and direct sunlight. Keep from freezing. Keep away from incompatible materials. Contact your sales representative or a metallurgical specialist to ensure compatibility with your equipment. Do not allow to dry out.

Incompatible materials : Strong acids, strong alkalis, reducing materials, combustible materials, organic materials, chlorine, hypochlorites, chlorates. Aluminum, copper, zinc and their alloys, including brass, bronze and galvanized materials. Incompatible with lead or mercury or their alloys. May be incompatible with some materials of construction.

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**

Section 11. Toxicological information

urea	**Rat - Oral - LD50** 8471 mg/kg
ammonium nitrate	**Rat - Oral - LD50** 2217 mg/kg
ammonium dihydrogenorthophosphate	**Rat - Male, Female - Oral - LD50** >2000 mg/kg OECD **Rat - Male, Female - Dermal - LD50** >5000 mg/kg OECD **Rat - Male, Female - Inhalation - LC50 Dusts and mists** >5 mg/l [4 hours] OECD
diammonium hydrogenorthophosphate	**Rat - Male, Female - Oral - LD50** >2000 mg/kg OECD 425 **Rat - Male, Female - Dermal - LD50** >5000 mg/kg NTP 402 **Rat - Male, Female - Inhalation - LC50 Dusts and mists** >5 mg/l [4 hours] OECD 403

Conclusion/Summary [Product] : Low acute toxicity. Nitrate based product. May cause digestive tract irritation.

Skin corrosion/irritation

Product/ingredient name	Result
ammonium nitrate	**Rabbit - Skin - Edema** OECD Observation period: 72 hours Irritation score: 0
diammonium hydrogenorthophosphate	**Rabbit - Skin - Edema** OECD 404 Irritation score: 0

Conclusion/Summary [Product] : Based on available data, the classification criteria are not met. May cause slight transient irritation.

Serious eye damage/eye irritation

Product/ingredient name	Result
ammonium nitrate	**Rabbit - Eyes - Edema of the conjunctivae** OECD Observation period: 3 days Irritation score: 3 Fully reversible in more than 7 days
diammonium hydrogenorthophosphate	**Rabbit - Eyes - Cornea opacity** OECD 405 Irritation score: 0

Conclusion/Summary [Product] : May cause mild eye irritation.

Respiratory corrosion/irritation

Section 11. Toxicological information

Conclusion/Summary [Product] : Inhalation of the spray or mist may produce irritation of respiratory tract.

Respiratory or skin sensitization

Product/ingredient name	Result
ammonium nitrate	**Mouse - skin** OECD [Skin Sensitization: Local Lymph Node Assay] Result: Not sensitizing
diammonium hydrogenorthophosphate	**Mouse - skin** OECD 429 Result: Not sensitizing

Skin

Conclusion/Summary [Product] : No known significant effects or critical hazards.

Respiratory

Conclusion/Summary [Product] : No known significant effects or critical hazards.

Germ cell mutagenicity

Product/ingredient name	Result
ammonium nitrate	**In vitro - Bacteria** OECD [Bacterial Reverse Mutation Test] Result: Negative **In vitro - Mammalian-Animal** OECD [476 In vitro Mammalian Cell Gene Mutation Test] Result: Negative
ammonium dihydrogenorthophosphate	**In vitro - Bacteria** OECD [Bacterial Reverse Mutation Test] Result: Negative
diammonium hydrogenorthophosphate	**Bacteria** OECD [Bacterial Reverse Mutation Test] Result: Negative

Conclusion/Summary [Product] : No known significant effects or critical hazards.

Carcinogenicity

Conclusion/Summary [Product] : Potential for nitrosamine formation if ingested. Do not ingest.

Classification

Product/ingredient name	OSHA	IARC	NTP
ammonium nitrate	-	2A	-

Reproductive toxicity

Product/ingredient name	Result

Section 11. Toxicological information

ammonium nitrate	**Rat - Male, Female - Oral** 1500 mg/kg Maternal toxicity: Negative Fertility effects: Negative Developmental: Negative
ammonium dihydrogenorthophosphate	**Rat - Male, Female - Oral** OECD [Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test] >1500 mg/kg Maternal toxicity: Negative Fertility effects: Negative Developmental: Negative
diammonium hydrogenorthophosphate	**Rat - Male, Female - Oral** OECD [Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test] 1500 mg/kg Maternal toxicity: Negative Fertility effects: Negative Developmental: Negative

Conclusion/Summary [Product] : No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure)

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Information on the likely routes of exposure

Dermal contact. Eye contact.

Potential acute health effects

Eye contact : May cause mild eye irritation.

Inhalation : No known significant effects or critical hazards.

Skin contact : May cause slight transient irritation.

Ingestion : Not considered to be toxic to humans. Nitrate based product. May be irritating to mouth, throat and stomach. Over-exposure by ingestion is unlikely under normal working conditions.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:
redness
watering

Inhalation : No specific data.

Skin contact : No specific data.

Section 11. Toxicological information

Ingestion : Adverse symptoms may include the following:
nausea or vomiting
stomach pains
diarrhea

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

Short term exposure

Potential immediate effects : See above.

Potential delayed effects : See below.

Long term exposure

Potential immediate effects : See above.

Potential delayed effects : See below.

Potential chronic health effects

Product/ingredient name	Result
ammonium nitrate	**Chronic - Rat - Male, Female - Oral - NOAEL** OECD [Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test] 256 mg/kg [12 months]
ammonium dihydrogenorthophosphate	**Chronic - Rat - Male, Female - Oral - NOAEL** OECD [Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test] 250 mg/kg
diammonium hydrogenorthophosphate	**Chronic - Rat - Male, Female - Oral - NOAEL** OECD 422 [Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test] 250 mg/kg

Conclusion/Summary [Product] : See below.

General : No known significant effects or critical hazards. Adverse chronic health effects are associated with high level exposures.

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

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
urea	8471	N/A	N/A	N/A	N/A
ammonium nitrate	2217	N/A	N/A	N/A	N/A
ammonium dihydrogenorthophosphate	2500	N/A	N/A	N/A	N/A
diammonium hydrogenorthophosphate	2500	N/A	N/A	N/A	N/A

Other information

Section 11. Toxicological information

Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result
urea	**Acute - LC50 - Fresh water** Fish - Giant gourami - *Colisa fasciata* - Fingerling 5000 µg/l [96 hours] **Acute - EC50 - Fresh water** Daphnia - Water flea - *Daphnia magna* - Neonate 3910 mg/l [48 hours] **Chronic - NOEC - Fresh water** Fish - Indian catfish - *Heteropneustes fossilis* 2 g/l [30 days]
ammonium polyphosphate	**Acute - EC50 - Fresh water** Daphnia - Water flea - *Daphnia magna* - Neonate 90.89 mg/l [48 hours] **Acute - LC50 - Fresh water** Fish - Chinook salmon - *Oncorhynchus tshawytscha* - Juvenile (Fledgling, Hatchling, Weanling) 70 mg/l [96 hours] **Acute - LC50** OECD Fish >500 mg/l [96 hours]
ammonium nitrate	**NOEC** Algae >1700 mg/l [10 days] **Acute - EC50** Daphnia 490 mg/l [48 hours]
ammonium dihydrogenorthophosphate	**Acute - LC50 - Fresh water** OECD Fish - Trout >85.9 mg/l [96 hours] **Acute - LC50 - Fresh water** OECD Daphnia 1790 mg/l [72 hours] **Acute - EC50** OECD Aquatic plants >97.1 mg/l [72 hours]
diammonium hydrogenorthophosphate	**Acute - LC50 - Fresh water** Fish - Rainbow trout,donaldson trout - *Oncorhynchus mykiss* 26.5 mg/l [96 hours] **Acute - LC50 - Fresh water** OECD Fish - *Cirrhinus mrigala/L. Rohita* - Fry 1700 mg/l [96 hours]

Conclusion/Summary [Product] : 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

Section 12. Ecological information

Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
urea	-	-	Readily
ammonium polyphosphate	-	-	Readily
ammonium nitrate	-	-	Readily
ammonium dihydrogenorthophosphate	-	-	Readily
diammonium hydrogenorthophosphate	-	-	Readily

Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
urea	<-1.73	-	Low
ammonium dihydrogenorthophosphate	<1	-	Low

Mobility in soil

Soil/Water partition coefficient : Not available.

Other adverse effects

No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : Follow disposal instructions on label. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Do not reuse containers for any purpose. Triple rinse containers with water and add the rinse water to the spray tank. Disposal should be in accordance with applicable regional, national and local laws and regulations. Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycler visit the ACRC web page at http://www.acrecycle.org/. Do not contaminate water, food or feed by storage or disposal.

Section 14. Transport information

	DOT Classification	TDG Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-
Transport hazard class(es)	-	-	-	-
Packing group	-	-	-	-
Environmental hazards	No.	No.	No.	No.

Section 14. Transport 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

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : Not determined.

Canada : At least one component is not listed in DSL but all such components are listed in NDSL.

China : Not determined.

Eurasian Economic Union : **Russian Federation inventory**: Not determined.

Japan : **Japan inventory (CSCL)**: Not determined.
Japan inventory (ISHL): Not determined.

New Zealand : Not determined.

Philippines : Not determined.

Republic of Korea : Not determined.

Taiwan : All components are listed or exempted.

Thailand : Not determined.

Turkey : Not determined.

United States : All components are active or exempted.

Viet Nam : All components are listed or exempted.

U.S. Federal regulations : **TSCA 8(a) PAIR**: dimethylpolysiloxane

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Clean Water Act (CWA) 307: ethylenediaminetetraacetate-zinc-ammonia complex; zinc sulfate

Clean Water Act (CWA) 311: zinc sulfate; ammonia

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

Section 15. Regulatory information

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 311/312

Classification : Not applicable.

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	ammonium nitrate ammonium dihydrogenorthophosphate diammonium hydrogenorthophosphate	6484-52-2 7722-76-1 7783-28-0	5 - 10 1 - 5 1 - 5
Supplier notification	ammonium nitrate ammonium dihydrogenorthophosphate diammonium hydrogenorthophosphate	6484-52-2 7722-76-1 7783-28-0	5 - 10 1 - 5 1 - 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 nitrate

New York : None of the components are listed.

New Jersey : The following components are listed: ammonium nitrate

Pennsylvania : The following components are listed: ammonium nitrate

California Prop. 65

⚠ **WARNING**: This product can expose you to chemicals including cadmium, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Section 16. Other information

History

Date of issue/Date of revision : 3/18/2025

Date of previous issue : No previous validation

Version : 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 = 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)
N/A = Not available
SGG = Segregation Group
UN = United Nations

Procedure used to derive the classification

Not classified.

Indicates information that has changed from previously issued version.

Notice to reader

Section 16. Other information

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

DISCLAIMER AND LIMITATION OF LIABILITY

The information and recommendations contained in this Safety Data Sheet ("SDS") relate only to the specific material referred to herein (the "Material") and do not relate to the use of such Material in combination with any other material or process. The information and recommendations contained herein are believed to be current and correct as of the date of this SDS. HOWEVER, THE INFORMATION AND RECOMMENDATIONS ARE PRESENTED WITHOUT WARRANTY, REPRESENTATION OR LICENSE OF ANY KIND, EXPRESS OR IMPLIED, WITH RESPECT TO THEIR ACCURACY, CORRECTNESS OR COMPLETENESS, AND THE SELLER, SUPPLIER AND MANUFACTURER OF THE MATERIAL AND THEIR RESPECTIVE AFFILIATES (COLLECTIVELY, THE "SUPPLIER") DISCLAIM ALL LIABILITY FOR RELIANCE ON SUCH INFORMATION AND 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.

FURTHERMORE, THE RECIPIENT ASSUMES ALL RISK IN CONNECTION WITH THE USE OF THE MATERIAL. THE RECIPIENT ASSUMES ALL RESPONSIBILITY FOR ENSURING THE MATERIAL IS USED IN A SAFE MANNER IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL, HEALTH, SAFETY AND SECURITY LAWS, POLICIES AND GUIDELINES. THE SUPPLIER DOES NOT WARRANT THE MERCHANTABILITY OF THE MATERIAL OR THE FITNESS OF THE MATERIAL FOR ANY PARTICULAR USE AND ASSUMES NO RESPONSIBILITY FOR INJURY OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY OR RELATED TO THE USE OF THE MATERIAL.