



Precautionary Statements:

P264	Wash hands thoroughly after handling
P280	Wear skin and eye protection
P301 + P312	IF SWALLOWED: Call a POISON CENTRE or doctor/ physician if you feel unwell
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove
P310	Immediately call a POISON CENTRE or doctor/ physician
P330	Rinse mouth

2.3. Other hazards This product has not been tested for PBT or vPvB

SECTION 3: Composition/information on ingredients

3.2. Mixtures

EC Classification No 1272/2008

Hazardous ingredient(s)	%w/w	CAS no	EC no	REACH Registration no	Hazard statements
Calcium ammonium nitrate hydrate	>80	15245-12-2	239-289-5	01-2119493947-16	H302, H318
Calcium nitrate hydrate	<20	10124-37-5, 13477-34-4	233-332-1	01-2119495093-35	H302, H318

SECTION 4: First aid measures

4.1. Description of first aid measures

4.1.1. First aid instructions.

If inhaled:	Move person into fresh air, rest in a position comfortable for breathing and seek medical attention if breathing becomes difficult
If on skin (or hair):	Wash affected skin thoroughly with soap and water, remove and wash clothes before reuse
If in eyes:	Wash affected eyes for at least 15 minutes under running water with eyelids held open. Remove contact lenses if possible. Seek medical attention
If swallowed:	Never give anything by mouth to an unconscious person. Rinse mouth and throat. Do not induce vomiting. Drink 1-2 glasses of water. Consult a physician
Other first aid advice:	If vomiting occurs spontaneously, keep airways clear. Give more water when vomiting stops

4.2. Most important symptoms and effects, both acute and delayed

If inhaled:	Inhalation of dust may cause irritation and a burning sensation to mucous membranes and upper respiratory tract. Symptoms may include irritation, coughing and tightness of breath
If on skin (or hair):	Exposure may cause itching, redness and soreness, especially where settled dust can rub between skin and clothing. If left



unwashed skin irritation can occur, especially to already dry or damaged skin.

If in eyes: Exposure to eyes will result in immediate pain and tearing. Corrosive damage to the eyes can occur if not washed promptly

If swallowed: Ingestion may cause abdominal pain, vomiting and diarrhoea within six hours of ingestion. Large doses of calcium nitrate can cause renal stones, hypercalcemia and methemoglobinemia. Symptoms of methemoglobinemia can include blue tinged lips and fingers.

4.3. Indication of any immediate medical attention and special treatment needed

Medical treatment: Treatment should be symptomatic and supportive. Medical regimes should be dictated by a medical professional

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: All extinguishing agents permitted

Unsuitable extinguishing media: None known

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products: Oxides of calcium and nitrogen

Other special hazards during fire: None known

5.3. Advice for firefighters

Protective actions during firefighting: Wear self-containing breathing apparatus

Special protective equipment for firefighters: No special instructions

Other advice: Keep product containers cool with water spray

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Non-emergency personnel PPE See section 8.2

Emergency responders PPE See section 8.2

Controlling risks from accidental release: Remove any contaminated soil

Emergency procedures: Cordon area to prevent exposure to unprotected individuals

6.2. Environmental precautions

Keep accidental releases away from: Drains, water courses, soil and open ground. Discharge to ground, water courses or drains can cause eutrophication

6.3. Methods and material for containment and cleaning up



Containing a spill:	Cover with a tarp to prevent material being spread by wind
Cleaning up a spill	Shovel or vacuum spills, recycle where possible
Other information on spill handling:	Material is water soluble, rain will dissolve material and wash it away

6.4. Reference to other sections

References to other sections:	See section 8.2 for personal protective equipment. See section 13.1 for disposal considerations
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Safe handling recommendations:	Wash hands and exposed skin before meals and after use. Wear gloves when handling the product over long periods of time
Handling incompatibles:	Do not use with strong bases
Reducing environmental risk:	Do not discharge into drains or water courses
Occupational hygiene advice	Wash hands after using this product and before eating, drinking or smoking. Remove contaminated clothing and protective equipment before entering eating areas

7.2. Conditions for safe storage, including any incompatibilities

Safe storage: managing risks during storage:

Explosive atmospheres formed during storage:	Not applicable
Corrosive conditions during storage:	Not applicable
Flammability hazards during storage:	Not applicable
Incompatible substances or mixtures:	Product will precipitate when mixed with alkalis
Evaporative conditions:	Not applicable
Potential ignition sources, including electrical equipment:	Not applicable

Safe storage: controlling effects of ambient conditions:

Weather conditions:	Do not store outside uncontained
Ambient pressure:	Not applicable
Temperature:	Not applicable
Sunlight:	Keep out of direct sunlight
Humidity:	Keep out of humid conditions, solid may take on water and solidify as a cake
Vibration:	Not applicable



Safe storage: maintaining the integrity of the product:

Stabilisers: Stabilisers are not used in this product

Antioxidants: Antioxidants are not used in this product

Safe storage: other advice:

Ventilation requirements for storage: No specific ventilation requirements

Specific designs for storage rooms or vessels: No specific design criteria on storage areas apart from normal regulatory requirements for substances of this type

Quantity limits under storage conditions: Not applicable

Suitable packaging for the substance: Keep in original container

7.3. Specific end use(s)

Uses: Use as a broadcast fertiliser during planting

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 Occupational exposure limits:

Substance	CAS No	LTEL TWA 8hr mg/m ³ - Inhalable	LTEL TWA 8hr mg/m ³ - Respirable	Notes
Calcium ammonium nitrate	15245-12-2	10	3	Generic limits

8.1.2 Biological Limit Values: Not applicable

8.1.3 Current recommended monitoring procedures: Not applicable

8.1.4 Air contaminants formed when using the product as intended: Not applicable

8.1.5. PNECs and DNELs Not applicable

8.2. Exposure controls

8.2.1. Appropriate engineering controls: Handle in accordance with good industrial hygiene

8.2.2. Personal Protection Equipment

Eye protection: Use safety glasses tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)

Face protection: Not required

Hand protection: When handling the product over an extended period of time use nitrile, latex or rubber gloves, which satisfy the specifications of EU Directive 89/686/EEC and the standard EN 384 derived from it



Other skin protection Do not wear open footwear

Respiratory protection Not required

Thermal hazards Not required

8.2.3. Environmental exposure controls Do not release substance to drains or surface water

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	Speckled spill
Physical state:	Solid prill
Colour:	Speckled, blue to white
Odour:	Minimal
Odour threshold:	Data not available
pH:	pH 5 – 6 as a 1% solution in water
Melting point:	Data not available
Freezing point:	Data not available
Initial boiling point:	Data not available
Boiling range:	Data not available
Flash point:	Data not available
Flash point method:	Data not available
Evaporation rate:	Data not available
Flammability (if solid or gas):	Data not available
Upper and lower flammability or explosive limits:	Data not available
Vapour pressure:	Data not available
Vapour density:	Data not available
Relative density:	0.95 – 1.05 g/cm ³ bulk density 1.00 – 1.10 g/cm ³ tapped density
Solubility(ies)	Product is >99% soluble in water Solubility of ~180g/100ml water at 20°C
Partition coefficient: n-octanol/water	Data not available
Auto-ignition temperature	Data not available
Decomposition temperature	Data not available
Viscosity	Data not available



Explosive properties	Data not available
Oxidising properties	Data not available
9.2. Other information	Variable particles size; general range of >100 µm to <10 mm

SECTION 10: Stability and reactivity

10.1. Reactivity	Can react with strong bases
10.2. Chemical stability	Product is stable under anticipated storage and handling conditions
10.3. Possibility of hazardous reactions	Substance not known to react and/or polymerise
10.4. Conditions to avoid	Mixing with alkalis
10.5. Incompatible materials	Alkaline materials
10.6. Hazardous decomposition products	No known hazardous decomposition products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	Acute Toxicity Point Estimate Oral LD50; >300 – 2,000 mg/kg body weight
Skin corrosion/irritation	Data not available
Serious eye damage/irritation	Classified as corrosive to the eyes
Respiratory or skin sensitisation	Data not available
Germ cell mutagenicity	Data not available
Carcinogenicity	Data not available
Reproductive toxicity	Data not available
STOT-repeated exposure;	Data not available

11.2. Other information No other information

SECTION 12: Ecological information

12.1. Toxicity

No test data is available for this product. Data has been extrapolated from constituent components

Species	Test	Value
Rainbow Fish (<i>Poecilia reticulata</i>)	LC50 96H	>100 mg/L
Water flea (<i>Daphnia magna</i>)	EC50 48H	>10 mg/L
Algae (<i>Pseudokirchnerella subcapitata</i>)	EC50 72H	>100 mg/L

12.2. Persistence and degradability No test data available; inorganic component is expected to persist and is non-biodegradable



12.3. Bioaccumulative potential	Data not available
12.4. Mobility in soil	Data not available
12.5. Results of PBT and vPvB assessment	Data not available
12.6. Other adverse effects	
Environmental fate	Data not available
Photochemical ozone creation potential	Data not available
Ozone depletion potential	Data not available
Endocrine disrupting potential	Data not available
Global warming potential	Data not available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

This material, if discarded as produced, is not classified as a hazardous waste. Waste treatment containers to be used for product include IBCs or drums. Recycle material where possible. If heavily soiled or disposal judged as necessary dispose in accordance with the Directive on waste 2008/98/EC

No specific waste treatment containers to be used for contaminated packaging, packaging should be recycled where possible. Waste treatment method for contaminated packaging should include a triple rinse with water. Dilute washings should be recycled where possible

SECTION 14: Transport information

14.1. UN number	Not applicable
14.2. UN proper shipping name	Not applicable
14.3. Transport hazard class(es)	Not applicable
14.4. Packing group	Not applicable
14.5. Environmental hazards	Not applicable
14.6. Special precautions for user	Not applicable
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Ozone depleting substance (EC No 2037/2000):	Not applicable
Persistent organic pollutants (EC No 850/2004)	Not applicable
Export and import of dangerous chemicals (EC No 689/2008)	Not applicable



COMAH/ Seveso II categories or named substance Not applicable

REACH Authorisations and/or Restrictions Not applicable

Any other relevant Safety, health and environmental regulations: Not applicable

15.2. Chemical safety assessment A chemical safety assessment has not been carried out for this product

SECTION 16: Other information

a) Changes made to SDS:

New safety datasheet

b) Key (or legend)

PPE	Personal Protective Equipment
LD50	Lethal Dosage affecting 50% of sample population
LC50	Lethal Concentration affecting 50% of sample population
EC50	Effective Concentration affecting 50% of sample population
TWA	Time Weighted Average
LTEL	Long Term Exposure Limit

c) Literature references

European Chemicals Agency:

<http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances>

NLM – Toxicology Data Network:

<https://www.nlm.nih.gov/>

Last accessed (14/05/2019)

Some data has been derived from constituent safety datasheets

d) Details of relevant hazard information

H302	Harmful if swallowed
H318	Causes serious eye damage
P264	Wash hands thoroughly after handling
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection
P270	Do not eat, drink or smoke when using this product
P301 + P312	IF SWALLOWED: Call a POISON CENTRE or doctor/ physician if you feel unwell
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310	Immediately call a POISON CENTRE or doctor/physician
P330	Rinse mouth
P501	Dispose of contents in accordance with local regulations, dispose of container to appropriate domestic recycling stream

e) Appropriate training for workers

Training for spillage handling and chemical handling is recommended

f) Classification method:

CLP classification