



NEUAG LLC

Safety Data Sheet NeuAG Granular Fertilizer - All Blends

SECTION 1: Identification

1.1 GHS Product identifier

Product name NeuAG Granular Fertilizer - All Blends

1.3 Recommended use of the chemical and restrictions on use

Fertilizer

1.4 Supplier's details

Name NeuAG LLC
Address 695 Flag Lake Drive
Clute TX 77531
USA

Telephone (979)500-6130

1.5 Emergency phone number

CHEMTREC 1-800-424-9300/+1 703-527-3887

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

GHS classification in accordance with: (US) OSHA (29 CFR 1910.1200)

- Skin corrosion/irritation, Cat. 2
- Sensitization, skin, Cat. 1

2.2 GHS label elements, including precautionary statements

Pictogram



Signal word

Hazard statement(s)

H315
H317
—

Warning

Causes skin irritation
May cause an allergic skin reaction
May form combustible dust concentrations in air

Precautionary statement(s)

P261
P264
P272

Avoid breathing dust/fume/gas/mist/vapors/spray.
Wash ... thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.

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P280	Wear protective gloves.
P302+P352	IF ON SKIN: Wash with plenty of water/...
P321	Specific treatment (see ... on this label).
P332+P313	If skin irritation occurs: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P363	Wash contaminated clothing before reuse.
P501	Dispose of contents/container to ...

SECTION 3: Composition/information on ingredients

3.2 Mixtures

COMMON NAME	CAS NO.	%
Diammonium phosphate	7783-28-0	<95
Urea	57-13-6	<98
Ammonium sulfate	7783-20-2	<95
Potassium chloride	7447-40-7	<90
Methylene Urea	9011-05-6	<85
Limestone	1317-65-3	<90
Polyurethane crosspolymer-1	68400-67-9	<2
Sulfur	7704-34-9	<4
Triple Super Phosphate	65996-95-4	<50
Potassium Magnesium Sulfate	14977-37-8	<90
Sulfate of Potash	7778-80-5	<95
Sodium Chloride	7647-14-5	<2
Iron Oxide	1309-38-2	<2
Ferrous Sulfate	7720-78-7	<2
Manganese Sulfate	7487-88-9	<5
Iron Sucrate	n/a	<5
Magnesium Sulfate	7487-88-9	<5
Magnesium Amino Acid Complex	7487-88-9	<5
Manganese Amino Acid Complex	10034-96-5	<5
Monopotassium phosphate	7778-77-0	<20
Sodium Calcium Borate	1319-33-1	<5
Calcium Sulfate	7778-18-9	<5
Magnesium Oxide	1344-43-0	<5
Manganese Sulfate Monohydrate	10034-96-5	<5
Copper Oxide	1317-38-1	<5
Copper Sulfate	7758-99-8	<5
Copper Amino Acid Complex	7758-98-7	<5
Red Iron Oxide	1309-37-1	<5
Sodium Molybdate	10102-40-6	<5

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Zinc Oxide	1314-13-2	<5
Zinc Sulfate	7446-19-7	<5
Zinc Amino Acid Complex	7446-20-0	<5

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice	If medical advice is needed, have product container or label at hand.
If inhaled	Remove to fresh air and promote deep breathing. Get medical attention if effects persist.
In case of skin contact	Wash with plenty of soap and water for at least 15 minutes. Get medical attention if irritation develops or persists.
In case of eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, get medical attention
If swallowed	Do not induce vomiting. Never give anything by mouth to an unconscious person. Give water to drink if conscious. Get medical attention if effects persist. Acute and delayed symptoms and effects: May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

4.2 Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

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

Treat symptomatically and supportively. If medical advice is needed, have a product container or label at hand.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Use extinguishing media appropriate for surrounding fire.
Not considered flammable but will burn at high temperatures.

5.2 Specific hazards arising from the chemical

Decomposes above 132C (270 F). Under conditions of fire this material may produce: Ammonia, Nitrogen oxides, Biuret, Cyanuric acid

Limestone: Carbon oxides, Calcium oxide

5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.
Do not allow run-off from fire fighting to enter drains or water courses.

Further information

Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation of explosive suspended dust or powder. Avoid breathing dust. Wear personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

6.2 Environmental precautions

Do not discharge product into natural waters without pre-treatment or adequate dilution.

6.3 Methods and materials for containment and cleaning up

Do not place spilled product back into original container. Keep all ignition sources away from spill to avoid potential for dust explosion. Clean with a broom or a vacuum and keep in suitable, closed containers for disposal. Cleaning surfaces with compressed air in the presence of ignition source should not be allowed.

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Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practices. This material becomes slippery when wet. Avoid contact with skin and eyes. Do not eat, drink or smoke while handling. Ensure adequate ventilation and avoid formation of dusts. Wash hands with soap and water after handling. Keep out of the reach of children. For precautions see section 2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

No additional information available

8.2 Appropriate engineering controls

Ensure all national/local regulations are observed.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Pictograms



Eye/face protection

Safety glasses with side-shields. Tightly fitting safety goggles (chemical goggles).

Skin protection

Wear chemical resistant protective gloves., e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other, Consult with glove manufacturer for testing data.

At the end of the shift the skin should be cleaned and skin-care agents applied.

Body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

If engineering controls and ventilation are not sufficient to control exposure to below the allowable limits then an appropriate NIOSH/MSHA approved air-purifying respirator with particulate filter, or self-contained breathing apparatus must be used. Supplied air breathing apparatus must be used when oxygen concentrations are low or if airborne concentrations exceed the limits of the air-purifying respirators.

Thermal hazards

No data available.

Environmental exposure controls

Do not let product enter drains.

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SECTION 9: Physical and chemical properties and safety characteristics

Physical state	Solid
Appearance	Granules
Color	Multicolored
Odor	Slight pungent
Odor threshold	No data available.
pH	No data available.
Melting point/freezing point	No data available.
Boiling point or initial boiling point and boiling range	No data available.
Flash point	No data available.
Evaporation rate	No data available.
Flammability	No data available.
Lower and upper explosion limit/flammability limit	No data available.
Vapor pressure	No data available.
Relative vapor density	No data available.
Density and/or relative density	45 (45-65) lb/ft ³
Solubility	Moderately in water
Partition coefficient n-octanol/water (log value)	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Kinematic viscosity	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.

Particle characteristics

Granular

Further safety characteristics (supplemental)

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

This product as shipped in the form of coarse granules should not contain sufficient dust to present an explosion hazard. Prevent dust accumulation (to minimize explosion hazard).

10.2 Chemical stability

Stable under normal storage conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerization will not occur

10.4 Conditions to avoid

Dispersing dust in air and potential ignition sources. Protect from moisture. Keep away from heat.

10.5 Incompatible materials

May form explosive mixture if in contact with strong acid such as nitric or perchloric acids.
Avoid contact with : Strong oxidizers. Strong acids, bases. Nitrates. Hypo chlorites. Perchlorates. Chlorides.
Corrosive to copper and its alloys.

10.6 Hazardous decomposition products

Under conditions of fire this material may produce: Nitrogen oxides. Ammonia.
Biuret. Carbon oxides (CO, CO₂). Formaldehyde.

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SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity Not classified

Product/ingredients	LD50 Oral Rat
Sodium Chloride (7647-14-5)	>3000 mg/kg
Urea (57-13-6)	8471 mg/kg
Diammonium Phosphate (7783-28-0)	>2000 mg/kg
Ammonium Sulfate (7783-20-2)	2840 mg/kg
Copper Sulfate (7758-99-8)	>300 mg/kg
Ferrous Sulfate (7720-78-7)	>319 mg/kg
Potassium Magnesium Sulfate (14977-37-8)	>3000 mg/kg

Skin corrosion/irritation

May cause skin irritation.

Serious eye damage/irritation

Causes serious eye damage.

Respiratory or skin sensitization

Based on available data, classification data are not met

Germ cell mutagenicity

Based on available data, classification data are not met

Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification

Reproductive toxicity

Based on available data, classification data are not met

STOT-single exposure

Based on available data, classification data are not met

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure

Aspiration hazard

Based on available data, classification data are not met

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SECTION 12: Ecological information

Toxicity

Ecology-Water: The product is water soluble and eventually biodegrades into elemental nitrogen. Excess nitrogen and nitrates in a body of water can have visible effects such as toxic algae bloom.

Urea (57-13-6)	
LC50 Fish 1	16200 - 18300 mg/l (Exposure time: 96 h - Species: Poecilia reticulata)
EC50 Daphnia 1	3910 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

Persistence and degradability

No data available on product

Bio accumulative potential

No data available on product.

Mobility in soil

No data available on product.

Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects

No data available on product.

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Disposal should be in accordance with applicable Federal, State and local laws and regulations. Local regulations may be more stringent than State or Federal requirements.

Packaging disposal

Dispose of as unused product.

Waste treatment

Place in an appropriate container and dispose of the contaminated material at a licensed site.

Sewage disposal

This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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Canadian Domestic Substances List (DSL)

Chemical name: Potassium chloride (KCl)

CAS: 7447-40-7

Chemical name: Sulfuric acid diammonium salt

CAS: 7783-20-2

Chemical name: Phosphoric acid, diammonium salt

CAS: 7783-28-0

Chemical name: Urea

CAS: 57-13-6

Canadian Non-Domestic Substances List (NDSL)

Chemical name: Limestone

CAS: 1317-65-3

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

New Jersey Right To Know Components

No components are subject to the New Jersey Right to Know Act.

Common name: CALCIUM CARBONATE

CAS number: 1317-65-3

Potassium chloride

CAS-No. 7447-40-7

Pennsylvania Right To Know Components

No components are subject to the Pennsylvania Right to Know Act.

Chemical name: Limestone

CAS number: 1317-65-3

Potassium chloride

CAS-No. 7447-40-7

Chemical name: Sulfuric acid diammonium salt

CAS number: 7783-20-2

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 Hazards

No SARA Hazards

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SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

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SECTION 16: Other information

16.1 Further information/disclaimer

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END OF DATA SHEET

16.2 Preparation information

EHS Manager of NeuAG, LLC