



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.

Safety Data Sheet

NeuAG Granular Fertilizer - All Blends

| | |
|-----------|--|
| 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 |
| Sulfur/Polymer-Coated Urea | 57-13-6 | <00 |
| Polymer-Coated Urea | 57-13-6 | <100 |
| 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 |
| NBPT (N-(n-butyl)thiophosphoric triamide | 94317-64-3 | <.50 |
| 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 |
| Biosolids | 308066-19-5 | <50 |
| Copper Oxide | 1317-38-1 | <5 |

Safety Data Sheet

NeuAG Granular Fertilizer - All Blends

| | | |
|---------------------------|------------|----|
| 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 |
| 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.

Safety Data Sheet

NeuAG Granular Fertilizer - All Blends

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.

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.

Safety Data Sheet

NeuAG Granular Fertilizer - All Blends

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.

Safety Data Sheet
NeuAG Granular Fertilizer - All Blends

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

Safety Data Sheet

NeuAG Granular Fertilizer - All Blends

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

Safety Data Sheet

NeuAG Granular Fertilizer - All Blends

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.

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

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

Safety Data Sheet

NeuAG Granular Fertilizer - All Blends

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.

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.

SECTION 16: Other information

16.1 Further information/disclaimer

IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY OUR COMPANY HEREUNDER ARE GIVEN GRATIS AND WE ASSUME NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.

END OF DATA SHEET

16.2 Preparation information

EHS Manager of NeuAG, LLC