



16-4-8

SAFETY DATA SHEET

U.S. Transport Summary: Not regulated by the U.S. D.O.T. as a hazardous material. (See Section 14 for additional information.)

SECTION 1: IDENTIFICATION

PRODUCT IDENTITY/NAME: 16-4-8

SYNONYMS: None

PRODUCT ID #: I2036322

COMMON NAME: N-P-K fertilizer mixture

CHEMICAL DESCRIPTION: Inorganic/Organic N-P-K fertilizer mixture

RECOMMENDED USE: Fertilizer - See product label for recommended uses and use rates.

PRODUCT RESTRICTIONS: See product label for any restrictions on the use of this product

EPA REGISTRATION #: Exempt

SUPPLIER NAME:

VOGEL SEED & FERTILIZER

1735 State Road 419

Longwood, FL 32750

MEDICAL EMERGENCY TELEPHONE NUMBER: 1-877-424-7452 (24hrs)

Non-Emergency Business Inquiries: 1-407-322-2421

Mon - Fri 8am - 5pm (Central Standard Time)

CAS No: Mixture

PRODUCT SDS #:

Issue Date: April 30, 2026

Revision Date: New

Version No. 0

**FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL:
CHEMTREC 1-800-424-9300 (24 hours)**

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Granular product. Causes moderate eye irritation. May cause skin irritation after prolonged exposure.

POTENTIAL HEALTH EFFECTS -

Eyes: Causes moderate but temporary eye irritation.

Skin: May cause mild skin irritation including temporary redness and itching.

Inhalation: May cause irritation of the upper respiratory tract.

Ingestion: May be harmful if swallowed.

Pre-existing Conditions: Pre-existing respiratory conditions may be aggravated by exposure.

Chronic Health Effects: None known.

CARCINOGENICITY:

NTP: Not listed

IARC: Not listed

OSHA: Not Listed

OSHA DEFINED HAZARDS: Eye Irritation - Category 2A; Skin Irritation - Category 2

LABEL ELEMENTS -

Hazard Symbol:



Signal Word: WARNING

Hazard Statement: Causes serious eye irritation.

Causes skin irritation.

% OF PRODUCT WITH UNKNOWN TOXICITY: N/A

PRECAUTIONARY STATEMENTS -**Prevention:** Wash hands thoroughly after handling. Wear gloves, eye and face protection. Do not breathe dust.**Response:** IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing if eye irritation persists: Get medical advice/attention.**Precautionary Statements – Storage**

None

Precautionary Statements – Disposal

None

Hazards not otherwise classified (HNOC)

Not applicable

Unknown Toxicity

Unknown

Other information

May be harmful if swallowed. Very toxic to aquatic life with long lasting effects

Interactions with Other Chemicals

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical name</u>	<u>CAS No</u>	<u>Weight -%</u>	<u>Trade Secret</u>
Potassium Chloride	7447-40-7	NA	*
Ammonium Sulfate	7783-20-2	NA	*
Diammonium Phosphate	7778-28-0	NA	

4. FIRST AID MEASURES

First aid measures**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact Lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub Affected area. Get medical attention if irritation develops and persists.**Skin contact** Wash with soap and water**Inhalation** Remove to fresh air**Ingestion** Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Call a physician.**Most important symptoms and effects, both acute and delayed****Most Important Symptoms and Effects** Burning sensation**Indication of any immediate medical attention and special treatment needed****Notes to Physician** Treat symptomatically

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

CAUTION: Use of water spray when fighting fire may be inefficient

Specific hazards arising from the chemical

No information available

Uniform Fire Code

Irritant: Solid

Explosion Data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Other Information Refer to protective measures listed in Sections 7 and 8.

Environmental precautions

Environmental precautions See section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible Products None known based on information supplied.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Urea 57-13-6	-	TWA: 15 mg/m3 TWA: 5 mg/m3 (vacated) TWA: 15 mg/m3 (vacated) TWA: 5 mg/m3	TWA: 5 mg/m3 respirable dust TWA: 10 mg/m3 total dust

ACGIH TLV: American Conference of Governmental Industrial Hygienists – Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration – Permissible Exposure Limits NIOSH IDLH immediately Dangerous to Life or Health

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992)

Appropriate engineering controls

Engineering Measures Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face protection Wear safety glasses with side shields (or goggles).

Skin and body protection

Wear protective gloves and protective clothing.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical state

Granular, Solid

Appearance

Light gray

Odor

Mild-musty

Color

No information available

Odor Threshold

No information available

Property**Values****Remarks Method****pH**

No data available

None Known

Melting/freezing point

No data available

None Known

Boiling point/boiling range

No data available

None Known

Flash Point

No data available

None Known

Evaporation Rate

No data available

None Known

Flammability (solid, gas)

No data available

None Known

Flammability Limit in Air

No data available

None Known

Upper flammability

No data available

None Known

Lower flammability

No data available

None Known

Vapor pressure

No data available

None Known

Vapor density

No data available

None Known

Specific gravity

No data available

None Known

Water Solubility

Very Soluble

None Known

Solubility in other solvents

No data available

None Known

Partition coefficient: n-octanol/water

0

None Known

Autoignition temperature

No data available

None Known

Decomposition temperature

No data available

None Known

Kinematic viscosity

No data available

None Known

Dynamic viscosity

0

None Known

Explosive properties

No data available

Oxidizing properties

No data available

Other Information**Softening Point**

No data available

VOC Content (%)

No data available

Particle Size

No data available

Particle Size Distribution

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

None known based on information supplied.

Incompatible materials

None known based on information supplied.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation	Specific test data for the substance or mixture is not available. May cause irritation of Respiratory tract.
Eye Contact	Specific test data for the substance or mixture is not available. Causes serious eye irritation, (based on components). May cause redness, itching and pain.
Skin Contact	Specific test data for the substance or mixture is not available. May cause irritation. Prolonged Contact may cause redness and irritation.
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause irritation To mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and Diarrhea.

Component Information

Chemical Name Urea 57-13-6	Oral LD50 = 2600 mg/kg (Rat)	Dermal LD50 -	Inhalation LC50 -
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Information on toxicological effects

Symptoms May cause redness and tearing of the eyes.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization	No information needed
Mutagenic Effects	No information needed
Carcinogenicity	Contains no ingredient listed as a carcinogen.
Reproductive toxicity	No information needed
STOT – single exposure	No information needed
STOT – repeated exposure	No information needed
Target Organ Effects	Eyes. Respiratory System. Skin.
Aspiration Hazard	No information needed

Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)
3,572.00 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects.

Chemical name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Urea 57-13-6	72h EC50= 2500 mg/L (Desmodesmus Subspicatus)	96h LC50: 750-1020 Mg/L (Pimephales promelas)96h LC50: =1060 mg/L (Lepomis macrochirus)		48h EC50: = 825 mg/L 48h EC50: = 83 mg/L

Persistence and Degradability

No information available.

Bioaccumulation

No information available.

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal Methods

This material, as supplied, is not a hazardous waste according to Federal regulation (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging

Dispose of contents/containers in accordance with local regulations.

California Hazardous Waste Codes

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14. TRANSPORT INFORMATION

DOT

Proper Shipping Name
Hazard Class

NOT REGULATED
NOT REGULATED
N/A

TDG

Not regulated

MEX

Not regulated

ICAO

Not regulated

IATA

Proper Shipping Name
Hazard Class

Not regulated
NON REGULATED
N/A

IMDG/IMO

Hazard Class
Marine Pollutant

Not regulated
N/A
Product is a marine pollutant according to the criteria set by IMDG/IMO

RID

Not regulated

ADR

Not regulated

AND

Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA

COMPLIES

DSL

All components are listed either on the DSL or NDSL.

TSCA – United States Toxic Substance Control Act Section 8(b) Inventory

DSL/NDSL – Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 13

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or Chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name

CAS No

Weight %

SARA 313 – Threshold
Values %

Urea

57-13-6

NA

NA

SARA 311/312 Hazard Categories

Acute Health Hazard

Yes

Chronic Health Hazard

No

Fire Hazard

No

Sudden release of pressure Hazard

No

Reactive Hazard

No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA)(40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

EPA Pesticide Registration Number

EPA Statement

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals.

International Regulations

Mexico

National occupational exposure limits

Chemical Name
NA

Carcinogen Status
NA

Exposure Limits
Mexico: TWA = 10 mg/m3
Mexico: STEL = 20 mg/m3

Mexico – Occupational Exposure Limits – Carcinogens

Canada

WHMIS Hazard Class

Not determined

16. OTHER INFORMATION

NFPA	Health Hazards	2	Flammability	0	Instability	0	Physical and Chemical Hazards – Personal Protection
HMIS	Health Hazards	2	Flammability	0	Physical Hazard	0	

Prepared by

Vogel Seed & Fertilizer

1735 State Road 419
Longwood, Fl. 32750
1-407-322-2421

Issuing Date

30 – April - 2026

Revision Date

Revision Note

No Information Available

End of Safety Data Sheet