

SAFETY DATA SHEET 16-4-5, 50% SRN (Slow Release Nitrogen) w/ Magnesium, Sulfur & Micros

1. Identification

Other Identification:

Telephone

Contact person

Website

E-mail

16-4-5, 50% SRN (Slow Release Nitrogen) w/ Magnesium, Sulfur & Micros Product name Product code

1645

Common Name: Micronutrient Fertilizer Chemical Family: Inorganic Salt Solution

Chemical Description: Fertilizer solution derived from urea, ammonium nitrate, triazone, phosphoric acid, potassium hydroxide, ammoniuim thiosulfate, iron EDTA chelate, boric acid, copper EDTA chelate, manganese

EDTA chelate, zinc EDTA chelate

Turf & Horticulture-Inorganic Salt Solution

Recommended use

Manufacturer & Distributor information

Corporate Office

Plant Food Company, Inc.

38 Hightstown-Cranbury Station Road Cranbury, NJ 08512 United States Information: 1-609-448-0935 www.plantfoodco.com

pfc@plantfoodco.com

SDS-Regulatory Department

1-800-424-9300 CCN725928 **Emergency phone number**

Call CHEMTREC Day or Night Within USA and Canada

Other Countries

or +1 703-527-3887 (collect calls accepted)

1-609-448-0935

2. Hazard(s) identification

Physical hazards Health hazards

Environmental hazards OSHA defined hazards

Not classified. Acute toxicity, oral

Serious eye damage/eye irritation

Specific target organ toxicity, single exposure

Category 3 respiratory tract

irritation

Category 4

Category 2

Category 2A

Hazardous to the aquatic environment, acute hazard

Not classified.



Signal word

Label elements

Hazard statement Precautionary statement

Prevention

Response

Warning

Harmful if swallowed. Causes serious eye irritation. May cause respiratory irritation.

Use only outdoors or in a well-ventilated area. Avoid breathing mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear eye/face protection.

If swallowed: Call a poison center/doctor if you feel unwell. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. Rinse mouth. If eye

irritation persists: Get medical advice/attention. None known.

Hazard(s) not otherwise classified (HNOC)

3. Composition/information on ingredients

Mixture

Chemical Name	Synonym Common Name	CAS Number	EINECS No.
Carbonyl Diamide	Urea	57-13-6	200-315-5
Ammonium Nitrate	Ammonium Nitrate	6484-52-2	229-347-8
1,3,5-triazinan-2-one	Triazone	7098-14-8	230-406-5
trihydroxidooxidophosphorus phosphoric acid	Phosphoric Acid	7664-38-2	231-633-2
Potassium Hydroxide	Potassium Hydroxide	1310-58-3	215-181-3
Dipotassium salt of carbonic acid	Potassium Carbonate	584-08-7	209-529-3
Thiosulfuric acid dipotassium salt	Potassium thiosulfate	10294-66-3	233-666-8
Thiosulfuric acid diammonium salt	Ammonium thiosulfate	7783-187-8	231-982-0



Skin contact

Eye contact

treatment needed
General information

Ingestion

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4. First-aid measures

Inhalation Remove victim from contaminated atmosphere. If breathing is labored, administer oxygen. If breathing has

ceased, clear airway and start CPR. Obtain medical attention.

Immediately flush with large quantities of water. Remove contaminated clothing under a safety shower. Continue

rinsing. Obtain medical attention if irritation occurs.

Immediately flush eyes with plenty of water for at least 15 minutes. Continue rinsing. Remove contact lenses, if

present and easy to do. If eye irritation persists: Get medical advice/attention.

Rinse mouth. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. If victim is

conscious, give two to four glasses of water and induce vomting by touching finger to back of throat. Obtain

medical attention.

Irritation of eyes and mucous membranes.

Provide general supportive measures and treat symptomatically. Keep victim warm. In case of shortness of

breath, give oxygen. Keep victim under observation. Symptoms may be delayed.

Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

5. Fire-fighting measures
Flammable Properties:
Suitable extinguishing media

Unsuitable extinguishing media

Flammable Properties: NFPA: Health - 1 Flammability - 0 Reactivity - 0

Not flammable, use media sutiable for combustibles involved in fire.

Not applicable.

Specific hazards arising from the chemical During fire, gases hazardous to health may be formed. Heating (flames) of closed or sealed containers may

cause violent rupture of container due to thermal expansion of compressed gases. Heating causes release of ammonia vapors. Vapors are irritating to eyes, skin and respiratory tract. Heating to dryness may cause the

fire area if you can do so without risk. Keep containers/storage vessels in fire area cooled with water spray.

release of ammonia, ammonium sulfate, sulfur and oxides of sulfur (respiratory hazard).

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Move containers from

Special protective equipment and precautions for

Most important symptoms/effects, acute and delayed

Indication of immediate medical attention and special

firefighters

Move container from fire area if it can be done without risk.

Heating this product will evolve ammonia

6. Accidental release measures

Fire-fighting equipment/instructions

Personal precautions, protective equipment and

emergency procedures

Specific methods

General fire hazards

Keep people away from any upwind of spill/leak. Keep out of low areas. Keep unnecessary personnel away. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Environmental precautions

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

Methods and materials for containment and cleaning up

Stop the flow of material, if this is without risk.

Large Spills: Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. For waste disposal, see section 13 of the SDS.

7. Handling and storage

Precautions for safe handling

Do not taste or swallow. Avoid breathing mist or vapor. Avoid contact with eyes. Provide adequate ventilation. Wear appropriate personal protective equipment. When using, do not eat, drink or smoke. Observe good industrial hygiene practices. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits Biological limit values

Appropriate engineering controls

Individual protection measures, such as personal

protective equipment

Eye/face protection

Skin protection

Hand protection Other

Respiratory protection Thermal hazards

General hygiene considerations

No exposure limits noted for ingredient(s).

No biological exposure limits noted for ingredient(s).

Provide eyewash station.

Wear eye/face protection. Wear safety glasses with side shields (or goggles).

For prolonged or repeated skin contact use suitable protective gloves.

Wear suitable protective clothing. Wash contaminated clothing prior to reuse. In case of insufficient ventilation, wear suitable respiratory equipment.

Wear appropriate thermal protective clothing, when necessary.

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.



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9. Physical and chemical properties

Appearance (physical state, color, etc) Clear/Hazy liquid, Green/Amber in color

OdorSlightly mustyOdor thresholdNot available.pH9.2 - 9.7

 Melting point/freezing point
 32 °F (0° C) (Typical))

 Initial boiling point and boiling range
 222°F (106°C)

 Flash point
 Not available.

 Evaporation rate
 Not determined

 Flammability (solid, gas)
 Not applicable

 Upper/lower flammability or explosive limits
 Not applicable

 Vapor pressure
 Not available.

 Vapor density
 Not available.

 Relative density
 10 lbs/gal (1.2 kg/L)

Solubility Complete
Solubility 100%
Partition coefficient (n-octanol/water) Not available.
Auto-ignition temperature Not available.

Decomposition temperature

Data not available
Viscosity

1-10 CPS @ 21°C
Other information

Shelf life > 2 years

10. Stability and reactivity

Conditions to avoid

Reactivity Avoid interaction with heat (flames), oxidizers, acids or alkalis (see details below in this section).

 Chemical stability
 Material is stable under normal conditions.

 Possibility of hazardous reactions
 Strong oxidizers such as nitrates, nitrites or

Strong oxidizers such as nitrates, nitrites or chlorates can cause explosive mixtures if heated to dryness

Temperatures above 120°F (49°C) and below 32°F (0°C).

Hazardous decomposition products Heating this product will evolve ammonia. Heating to dryness will produce ammonia, ammonium sulfate, sulfur

and oxides of sulfur.

11. Toxicological information

Information on likely routes of exposure

Oral Not determined
Inhalation Not determined
Skin contact Not determined
Eye contact Not determined
Not determined

Chronic/Carcinogenicity: Not listed in NTP, IARC or by OSHA.

Teratology: Data not available.

Reproduction: Data not available.

Mutagenicity: Data not available.



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12. Ecological information

Ecotoxicity Not determined

Persistence and degradability No data is available on the degradability of this product. Bioaccumulative potential

This product is not bioaccumulative.

Mobility in soil Not determined Other adverse effects Not determined

13. Disposal considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be Disposal instructions

disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds,

waterways or ditches with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

The waste code should be assigned in discussion between the user, the producer and the waste disposal company. Hazardous waste code

Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and

its container must be disposed of in a safe manner (see: Disposal instructions).

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may

retain product residue, follow label warnings even after container is emptied.

14. Transport information

Contaminated packaging

DOT Not regulated as dangerous goods. IATA Not regulated as dangerous goods. IMDG Not regulated as dangerous goods.

15. Regulatory information

US federal regulations This product meets the criteria of the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification Not regulated.

(40 CFR 707, Subpt. D)

CERCLA Hazardous Substance List (40 CFR 302.4) Not listed.

SARA 304 Emergency release notification Not regulated.

Hazard categories Immediate Hazard - Yes Delayed Hazard - No

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Not listed.

Not regulated.

Not regulated.

SARA 302 Extremely hazardous substance

Other federal regulations

OSHA Specifically Regulated Substances Not listed.

(29 CFR 1910.1001-1050)

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants

(HAPs) List

Clean Air Act (CAA) Section 112(r) Accidental Release Not regulated.

Prevention (40 CFR 68.130) Safe Drinking Water Act (SDWA)

Disclaimer

16. Other information, including date of preparation or last revision

Issue date 6/1/2015

Revision date

Version #

While the information contained herein is presented in good faith and believed to be accurate, it is provided for your guidance only. Because many factors may affect processing or application, 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 information set forth, or that the products, or information may be used without infringing the intellectual property rights of others. In no case shall the information provided be considered a part of our terms and conditions of sale. Further, you expressly understand and agree that the

> information furnished by our company hereunder is given gratis and we assume no obligation or liability for the information given or results obtained, all such being given and accepted at your risk.

Revision Information Composition / Information on Ingredients: Ingredients

Physical & Chemical Properties: Multiple Properties