

Safety Data Sheet

Section 1 Product Information

Product Name: 13-0-0 STD, .125 DIMENSION, 25% REGAIN, 50 LB. Product Code: I0000324

Vogel Seed & Fertilizer LLC

800-635-2123

1891 Spring Valley Rd.

Jackson, WI 53037

Product Use: Granular blended fertilizer for general horticulture use.

Not recommended for: Not recommended for use in or around bodies of water.

Section 2 Hazards

GHS Ratings:

Eye corrosive

2A

Eye irritant: Subcategory 2A, Reversible in 21 days

Carcinogen

1B

Presumed Human Carcinogen, Based on demonstrated animal carcinogenicity

GHS Hazards

H319

Causes serious eye irritation

H350

May cause cancer

GHS Precautions

P201

Obtain special instructions before use

P202

Do not handle until all safety precautions have been read and understood

P264

Wash ... thoroughly after handling

P280

Wear protective gloves/protective clothing/eye protection/face protection

P281

Use personal protective equipment as required

P305+P351+P338

IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

P308+P313

IF exposed or concerned: Get medical advice/attention

P337+P313

If eye irritation persists, get medical advice/attention

P405

Store locked up

P501

Dispose of contents/container in accordance with local, state, and federal laws.

Signal Word: **Danger**



Section 3 Composition

Exact percentages of components are withheld as a trade secret.

Chemical Name	CAS number	Weight Concentration %
Dolomite granules	16389-88-1	
Urea	57-13-6	
N-(n-Butyl)thiophosphoric triamide	94317-64-3	

Section 4 First Aid

Inhalation: Remove to fresh air, if irritation of lungs persists contact physician.

Eye Contact: Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

Skin Contact: Wash with soap and water. Contact physician if irritation persists.

Ingestion: No emergency medical treatment necessary.

General Advice: If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Most important symptoms and affects, both acute and delayed: Aside from the information found under Section 4 First Aid and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Have the Safety Data Sheet, and if available, the product container or label with you when calling a poison control center or doctor, or going for treatment.

Section 5 Fire Fighting

Flash Point: N/A

LEL:

UEL:

Suitable extinguishing media: Water fog or fine spray. Dry Chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam.

Unsuitable extinguishing media: None.

Special hazards arising from the substance or mixture

Hazardous combustion products: During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Nitrogen oxides, Hydrogen fluoride, Hydrogen chloride, Carbon monoxide, Carbon dioxide.

Unusual Fire and Explosion Hazards: Container may melt from gas generation in a fire situation Pneumatic conveying and other mechanical handling operations can generate combustible dust. To reduce the potential for dust explosions, do not permit dust to accumulate. Dense smoke is produced when product burns.

Advice for firefighters

Fire Fighting Procedures: Keep people away. Isolate fire and deny unnecessary entry. Soak thoroughly with water to cool and prevent re-ignition. If material is molten, do not apply direct waterstream. Use fine water spray or foam. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed. Fight fire from protected location or safe distance. Consider the use of unmanned hose holders or monitor nozzles. Immediately withdraw all personnel from the area in case of rising sound from venting safety device or discoloration of the container. Hand held dry chemical or carbon dioxide extinguishers may be used on small fires. Move container from fire area if this is possible without hazard. Contain fire water run-off if possible. Fire water run-off, if not contained, may cause environmental damage. Review the "Accidental Release Measures" and the "Ecological Information" sections of this SDS.

Special protective equipment for firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves) If protective equipment is not available or not used, fight fire from a protected location or safe distance.

Section 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Environmental precautions; prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12 Ecological information.

Small spills: Sweep up, collect in suitable and properly labeled containers.

Large spills: Contact Dow AgroSciences for clean-up assistance. See Section 13 Disposal Considerations, for additional information.

Section 7 Handling and Storage

Precautions for safe handling: Keep out of reach of children. Do not swallow. Avoid breathing dust or mist. Avoid contact with eyes, skin, and clothing. Keep away from heat, sparks, and flame. Good housekeeping and controlling of dusts are necessary for safe handling of product. Wash thoroughly after handling. Use with adequate ventilation.

Conditions for safe storage: Store in a dry place. Store in original container. Do not store near food, foodstuffs, drugs or potable water supplies.

Section 8 Exposure Control and Personal Protection

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Dolomite granules 16389-88-1	Not Established	Not Established	Not Established
Urea 57-13-6	15mg/m ³	Not Established	Not Established
N-(n-Butyl)thiophosphoric triamide 94317-64-3	5 mg/m ³ as dust	Not Established	Not Established

Applicators and handlers should see the product label for proper personal protective equipment and clothing.

Section 9 Physical Properties

Appearance Tan Physical State Solid Lbs VOC/Gallon Less Water 0.00	Odor Sulfur like Specific Gravity (SG) 3.665
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Section 10 Stability and Reactivity

STABLE

Incompatibilities: None known.

Not Applicable

Hazardous Decomposition: Not established.

Not Applicable

Hazardous polymerization will not occur.

Section 11 Toxicological Information

Mixture Toxicity

Component Toxicity

94317-64-3 N-(n-Butyl)thiophosphoric triamide
Oral LD50: 2,823 mg/kg (rat) Dermal LD50: 2,000 mg/kg (rat)

Skin Contact Eye Contact Ingestion

Not Applicable

Effects of Overexposure

CAS Number
16389-88-1

Description
Dolomite granules

% Weight

Carcinogen Rating
Dolomite granules: Limestone (Dolomite granules) is not listed on the NTP, IARC or OSHA lists of carcinogens. Crystalline silica, a naturally occurring component of limestone, is listed by IARC but not by NTP or OSHA. IARC has determined that there is sufficient evidence for carcinogenicity to experimental animals exposed to crystalline silica and limited evidence for carcinogenicity to humans. "Limited evidence" means that a causal relationship is possible; however, other explanations such as chance, bias or confounding factors cannot adequately be excluded. NTP has proposed (1989) to list crystalline silica based on the IARC determination. The quantity of crystalline silica in limestone, being part of a naturally occurring mined material, vary based on where and when the material is mined. As such the exact percentage of crystalline silica in this product cannot be accurately calculated between individual batches of this product. In order to provide our end users with the most relevant safety information and err on the side of caution and in accordance with the GHS standards set forth for crystalline silica stating that any product containing more than 0.1% crystalline silica must be marked with a Carcinogen hazard classification this product bears this mark even in cases where it may not be strictly required.

Section 12 Ecological Information

Toxicity

Acute toxicity to fish

Material is highly toxic to aquatic organisms on an acute basis (LC50/EC50 between 0.1 and 1 mg/L in the most sensitive species tested)

LC50, *Oncorhynchus mykiss* (rainbow trout), 96 hour, 0.48 mg/L.

Acute Toxicity to aquatic invertebrates

LC50, saltwater mysid *Mysidopsis bahia*, 0.586 mg/L

EC50, eastern oyster (*Crassostrea virginica*), 0.168 mg/L

Toxicity to Above Ground Organisms

Material is practically non-toxic to birds on a dietary basis (LC50>5,000 ppm).
Material is practically non-toxic to birds on an acute basis (LD50>2000 mg/kg).

dietary LC 50, *Colinus virginianus* (Bobwhite quail), > 5,620 ppm

oral LD50, *Colinus virginianus* (Bobwhite quail), > 2,250 mg/kg

contact LD50, *Apis mellifera* (bees), 48 hour, 81 ug/bee

Persistence and degradability

Dithiopyr

Biodegradability: Biodegradation may occur under aerobic conditions (in the presence of oxygen)

Toluene

Biodegradability: Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.

10 day window: not applicable

Biodegradation: 100%

Exposure time: 14 d

Method OECD Test Guideline 301c or Equivalent

Theoretical Oxygen Demand: 3.13 mg/mg calculated.

Photodegradation

Test Type: Half-life (indirect photolysis)

Sensitizer: OH radicals

Atmospheric half-life 2 d

Method: estimated.

Balance

Biodegradability: No relevant data found.

Bioaccumulative potential

Bioaccumulation: No data available.

Mobility in soil

Dithiopyr

Expected to be relatively immobile in soil ($K_{oc} > 5000$).

Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process.

Partition coefficient (K_{oc}): 20500

Toluene

Potential for mobility in soil is very high (K_{oc} between 0 and 50).

Partition coefficient (K_{oc}): 37-178 Estimated

Balance

No relevant data found.

Component Ecotoxicity

Urea

96 Hr LC50 *Poecilia reticulata*: 16200 - 18300 mg/L

48 Hr EC50 *Daphnia magna*: 3910 mg/L [Static]

Section 13 Disposal Considerations

Disposal Methods: If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. If the material as supplied becomes a waste, follow all applicable regional, national, and local laws

Section 14 Transportation

DOT

Not regulated for transport

Classification for SEA transport (IMO-IMDG):

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

SOLID.
 N.O.S. (Dithiopyr)
UN number: UN 3077
Class: 9
Packing group: III
Marine pollutant: Dithiopyr
Transport in bulk: Consult IMO regulations before transporting ocean bulk
**according to Annex I or II
 of MARPOL 73/78 and the
 IBC or IGC Code**

Classification for AIR transport (IATA/ICAO):

Proper shipping name Environmentally hazardous substance, solid, n.o.s
 (Dithiopyr)
 UN number UN 3077
 Class 9
 Packing group III

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
	Not Applicable			

Section 15 Regulations

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312

Chronic Health Hazard

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) 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.

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

WARNING: This product contains a chemical(s) known to the State of California to cause birth defects or other reproductive harm.

Pennsylvania (Worker and Community Right-To-KnowAct): Pennsylvania Hazardous Substances List and/or Pennsylvania Environmental Hazardous Substance List:

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

Pennsylvania (Worker and Community Right-To-KnowAct): Pennsylvania Special Hazardous Substances List:

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

United States TSCA Inventory (TSCA)

This product contains chemical substance(s) exempt from U.S. EPA TSCA Inventory requirements. It is regulated as a pesticide subject to Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) requirements.

Federal Insecticide, Fungicide and Rodenticide Act

EPA Registration Number: 62719-483

