

Safety Data Sheet

Section 1 Product Information

Product Name: 17-0-4 STD, PROTEGO, 30% DURATION 45, MOP, 50 LB. Product Code: 2021300
Spring Valley 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 to ... |

Signal Word: Danger



Section 3 Composition

| Chemical Name | CAS number | Weight Concentration % |
|--------------------|------------|------------------------|
| Dolomite granules | 16389-88-1 | |
| Urea Granular | 57-13-6 | |
| Potassium Chloride | 7447-40-7 | |

(1) Nuisance limit

Section 4 First Aid

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

Eye Contact: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

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

Drink plenty of water and contact physician.

Most important symptoms/effects, acute and delayed: Eye irritation; changes in blood chemistry; heart, thyroid, liver damage

Indication of immediate medical attention and special treatment if needed, if necessary: Eye irritation

Section 5 Fire Fighting

Flash Point: N/A

LEL:

UEL:

Suitable extinguishing media: Use extinguishing media suitable for surrounding material. Dry chemical, carbon dioxide, foam, water spray or fog.

Unsuitable extinguishing media: None.

Special hazards arising from the substance or mixture

Hazardous combustion products: May produce hydrogen chloride, hydrogen fluoride, hydrogen sulfide, ammonia, and oxides of carbon, nitrogen, phosphorus and sulfur.

Unusual Fire and Explosion Hazards: If water is used to fight fire, contain runoff, using dikes to prevent contamination of water supplies. Dispose of fire control water later.

Special Fire Fighting Procedures: Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full fire-fighting turnout gear. Take area to prevent runoff and contamination of water sources. Dispose of fire control water later.

Section 6 Accidental Release Measures

Avoid creation of dusty conditions. If dry, sweep or scoop up material and place into container for disposal. If wet, pump any free liquid into an appropriate closed container. Decontaminate tools and equipment following cleanup. See Section 13: DISPOSAL CONSIDERATIONS for more information. Other information: Large spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.

Section 7 Handling and Storage

Precautions for safe handling: Causes moderate eye irritation. Avoid contact with eyes or clothing. Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove Personal Protective Equipment (PPE) immediately after handling this product. Wash the outside of gloves before removing. As soon as

possible, wash thoroughly and change into clean clothing. Keep children and pets off treated area until dry.

Storage: Store in original container. Keep area inaccessible to children and pets. Do not contaminate water, food, or feed by storage or disposal.

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 Granular 57-13-6 | 15mg/m ³ | Not Established | Not Established |
| Potassium Chloride 7447-40-7 | Not Established | Not Established | Not Established |

Where engineering controls are indicated by specific use conditions or a potential for excessive exposure, use local exhaust ventilation at the point of generation.

Eye/Face Protection: To avoid contact with eyes, wear chemical goggles or shielded safety glasses. An emergency eyewash or water supply should be readily accessible to the work area.

Skin Protection: To avoid contact with skin wear long pants, long-sleeved shirt, socks, shoes and chemical-resistant gloves. An emergency shower or water supply should be readily accessible to the work area.

Respiratory Protection: Not normally required. If vapors or mists exceed acceptable levels, wear NIOSH approved air-purifying respirator with cartridges/canisters approved for use against pesticides.

General Hygiene Considerations: Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material: 1) do not store, use and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored; 2) wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics or using the toilet.

Section 9 Physical Properties

| | |
|--|---------------------------------------|
| Appearance Blend of granular pellets. | Odor Slightly earthy |
| Physical State Solid Granular | Boiling Range 1420 to 1500 °C |
| Specific Gravity (SG) 1.313 | Lbs VOC/Gallon Less Water 0.00 |

Section 10 Stability and Reactivity

This material is stable under normal handling and storage conditions. Possibility of Hazardous Reactions: Hazardous polymerization will not occur. Conditions to Avoid: Excessive heat. Do not store near heat or flame.

STABLE

Incompatibilities: Strong acids and bases.

Not Applicable

Hazardous Decomposition: Not established.

Not Applicable

Hazardous polymerization will not occur.

Section 11 Toxicological Information

Mixture Toxicity

Oral Toxicity LD50: 3,410mg/kg

Component Toxicity

7447-40-7 Potassium Chloride
Oral LD50: 1,500 mg/kg (rat)

Routes of Entry: Skin and eye. May irritate open sores and wounds. May cause temporary eye irritation.

Skin Contact Eye Contact Ingestion

Not Applicable

Effects of Overexposure

| <u>CAS Number</u> | <u>Description</u> | <u>% Weight</u> | <u>Carcinogen Rating</u> |
|-------------------|--------------------|-----------------|--------------------------|
| None | | | Not Applicable |

Section 12 Ecological Information

Environmental Hazards:

This product is toxic to aquatic invertebrates

Ecotoxicity:

Data on Imidacloprid Technical:

96-hour LC50 Rainbow Trout: 211 mg/l Japanese Quail Oral LD50: 31 mg/kg
48-hour EC50 Daphnia: 85 mg/l Bobwhite Quail Oral LD50: 152 mg/kg
96-hour LC50 Mysid: 0.038 ppm House Sparrow Oral LD50: 41 mg/kg
48-hour Honey Bee Contact LD50: 0.078 ug/bee 48-hour Honey Bee Oral LD50: 0.0039 ug/bee

Data on Lambda-Cyhalothrin Technical:

96-hour LC50 Bluegill: 0.00021 ppm Bobwhite Quail 8-day Dietary LC50: >5,300 ppm
96-hour LC50 Rainbow Trout: 0.00024 ppm Mallard Duck 8-day Dietary LC50: >3,948 ppm
48-hour EC50 Daphnia: 0.00036 ppm
Honey Bee Oral LD50: 0.038 ug/bee
Mallard Duck LC50: 3,950 mg/kg

Environmental Fate:

Hydrolysis half-life of imidacloprid is greater than 30 days at pH 7 and 25°C. Aqueous photolysis half-life is less than 3 hours. The soil surface photolysis of imidacloprid has a half-life of 39 days, and in soil, the half-life ranged from 26 to 229 days. Lambda-Cyhalothrin is moderately persistent in the soil. The reported half-lives range from 4 to 12 weeks. It shows a high affinity for soil with a reported Koc of 180,000. Lambda-Cyhalothrin has extremely low water solubility and is tightly bound to soil.

Component Ecotoxicity

Urea Granular 96 Hr LC50 *Poecilia reticulata*: 16200 - 18300 mg/L
48 Hr EC50 *Daphnia magna*: 3910 mg/L [Static]

Section 13 Disposal Considerations

Product Disposal: Reuse product if possible. May be placed in household waste.

Container Disposal: Nonrefillable container. DO NOT reuse or refill this container. Offer for recycling if available.

Section 14 Transportation

Technical shipping name:..... Not regulated.
 Proper shipping name:..... Not regulated.
 Hazard Class or Division:..... Not regulated.

| <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

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

| <u>Country</u> | <u>Regulation</u> | <u>All Components Listed</u> |
|----------------|-----------------------------|------------------------------|
| USA | SARA Title III Not listed | No |
| USA | TSCA All listed or exempted | No |

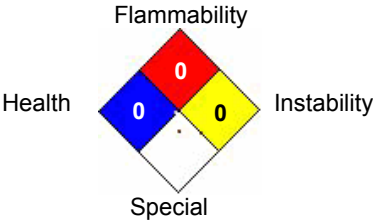
Section 16 Other Information

Hazardous Material Information System (HMIS)

| | |
|----------------------------|--------------------------------|
| HEALTH | <input type="text" value="0"/> |
| FLAMMABILITY | <input type="text" value="0"/> |
| PHYSICAL HAZARD | <input type="text" value="0"/> |
| PERSONAL PROTECTION | <input type="text"/> |

HMIS & NFPA Hazard Rating Legend
 * = Chronic Health Hazard
 0 = INSIGNIFICANT
 1 = SLIGHT
 2 = MODERATE
 3 = HIGH

National Fire Protection Association (NFPA)



The information herein is provided in good faith and believed to be accurate as of the effective date shown above . However, no warranty, express or implied, is given . Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped . Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.

Reviewer Revision

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