

### SECTION 1 – PRODUCT IDENTIFICATION AND USE

**Product Identifier:** Protect-It®

**USEPA Reg. No. 66923-2**

**Intended Use:** Insecticide for use in stored grain and structures

**Manufacturer Details:** Hedley Technologies (USA) Inc.  
53 McCullough Drive, New Castle, DE 19720-2080

**Emergency Telephone Number:** 1-888-476-4473

### SECTION 2 – HAZARD IDENTIFICATION

**Classification of the substance or mixture:**



Health hazard  
Specific target organ toxicity following repeated exposure, category 2

STOT RE 2

**Signal word:** Warning

**Hazard statements:** May cause damage to organs through prolonged or repeated exposure

**Precautionary statements:** Do not breathe dust/fume/gas/mist/vapours/spray



NFPA SCALE (0-4)

|                            |          |
|----------------------------|----------|
| <b>Health</b>              | <b>1</b> |
| <b>Flammability</b>        | <b>0</b> |
| <b>Physical Hazard</b>     | <b>0</b> |
| <b>Personal Protection</b> | <b>X</b> |

HMIS RATINGS (0-4)

### SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

| Name   | Product Identifier | % (by weight) |
|--|--------------------|---------------|
| <b>Common Name:</b> Natural Diatomaceous Earth . Fresh Water (DE)<br><b>Chemical Name:</b> amorphous silicon dioxide | CAS 61790-53-2     | 90            |
| <b>Common Name:</b> silica gel<br><b>Chemical Name:</b> silicon dioxide  | CAS 112926-00-8    | 10            |

### SECTION 4 – FIRST AID MEASURES

**After inhalation:** If inhaled, move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, if possible.

**After skin contact:** Rinse/flush exposed skin gently using soap and water for 15-20 minutes. Seek medical advice if discomfort or irritation persists.

**After eye contact:** If eye irritation occurs, hold eye open and rinse gently with water for 15-20 minutes. Remove contact lenses after the first 5 minutes, if present, then continue rinsing eye. Seek medical attention if irritation persists or if concerned.

**After swallowing:** Rinse mouth thoroughly. Do not induce vomiting. Drink sips of water. Seek medical attention if irritation, discomfort or vomiting persists.

**Most important symptoms and effects, both acute and delayed:** Irritation

**Indication of any immediate medical attention and special treatment needed:**

If seeking medical attention, provide SDS to physician, who should treat symptomatically.

**SECTION 5 – FIREFIGHTING MEASURES**

**Suitable extinguishing agents:**

Does not burn. Use extinguishing media appropriate for surrounding fire.

**Specific hazards arising from the substance:**

Thermal decomposition can lead to release of irritating gases and vapours.

**Special protective equipment and precautions for firefighters:**

Use NIOSH-approved respiratory protection/breathing apparatus. Avoid inhaling gases, fumes, and dust. Avoid contact with skin and eyes.

**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment, and emergency procedures:**

Refer to Section 8 for personal protection protective eyewear, gloves, and clothing. Ensure that air-handling systems are operational. Ensure adequate ventilation.

**Methods and material for containment and cleaning up:**

Keep in suitable closed containers for disposal. Dust deposits should not be allowed to accumulate on surfaces. Vacuum clean dust with equipment fitted with HEPA filter. Use a dust suppressant such as water if sweeping is necessary.

**SECTION 7 – HANDLING AND STORAGE**

**Precautions for safe handling:**

Minimize dust generation and accumulation. Avoid breathing dust. Establish good personal hygiene and work practices. Always wash hands and face before eating, drinking or smoking. Avoid contact with eyes, skin, and clothing.

**Conditions for safe storage, including any incompatibilities:**

Store in a dry place. Minimize dust generation and accumulation. Seal broken containers immediately. When working with this product, measures to prevent electrostatic charging should always be taken when handling near flammable or explosive atmospheres.

**SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION**



**Control parameters:** Total Dust PEL 10 mg/m<sup>3</sup>, Respirable Dust TWA 5 mg/m<sup>3</sup>  
**Appropriate Engineering Controls:** Emergency eyewash stations should be available in the immediate vicinity of use/handling. Use sufficient natural or mechanical ventilation to keep dust level below PEL as above.

**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

|  |   |
|--|---|
| <b>Appearance:</b> fine off-white powder | <b>Explosive limits:</b> ND                     |
| <b>Odor:</b> none                        | <b>Vapour pressure:</b> ND                      |
| <b>Odor threshold:</b> NA                | <b>Vapour density:</b> ND                       |
| <b>pH:</b> 6-8                           | <b>Bulk density:</b> 190 g/L                    |
| <b>Melting/Freezing point:</b> NA        | <b>Solubility:</b> hydrofluoric acid            |
| <b>Boiling point &amp; range:</b> NA     | <b>Water solubility:</b> Negligible             |
| <b>Specific Gravity (water=1):</b> 2     | <b>Flammability:</b> NA                         |
| <b>Decomposition temperature:</b> ND     | <b>Evaporation rate:</b> NA                     |
| <b>Auto-ignition temperature:</b> ND     | <b>Flash point:</b> ND                          |
| <b>Viscosity:</b> NA                     | <b>Part.Coeff. n-octanol/H<sub>2</sub>O:</b> ND |

**SECTION 10 – STABILITY AND REACTIVITY**

**Reactivity:** Nonreactive under normal conditions  
**Chemical stability:** Stable and chemically inert under normal conditions  
**Possible hazardous reactions:** None under normal processing  
**Conditions to avoid:** None in designed use  
**Incompatible materials:** Strong acids, strong bases, oxidizing agents



## SAFETY DATA SHEET

According to 29CFR1910/1200 and GHS Rev. 3

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**Hazardous decomposition products:** None under normal processing

### SECTION 11 – TOXICOLOGICAL INFORMATION

**Inhalation:** Mechanical irritant. May cause coughing, sneezing and soreness to throat and nose. In extreme exposures some respiratory congestion may occur.

**Ingestion:** Not hazardous when ingested.

**Skin Contact:** May cause drying of the skin.

**Eye Contact:** Mechanical irritant. May cause temporary irritation or inflammation

**Chronic Exposure:** This product contains natural (uncalcined) diatomaceous earth (fresh water source) and synthetic amorphous silica which are considered health hazards when inhaled over long periods of time (years). Long term inhalation of these materials can cause silicosis, a noncancerous lung disease. Use of a dust mask during application prevents this hazard.

**Sensitization:** ND

**Irritancy:** Transitory upper respiratory irritant (mechanical irritant)

**Reproductive Effects:** None

**Synergistic Products:** None

Not listed in the NTP Report on Carcinogens, the IARC Monographs, or by OSHA.

### SECTION 12 – ECOLOGICAL INFORMATION

Generally considered chemically inert in the environment. It is not toxic to plants or animals (except insects, arachnids and land gastropods when dry). Used material which has become contaminated may have significantly different characteristics based on the contaminant and should be evaluated accordingly.

### SECTION 13 – DISPOSAL CONSIDERATIONS

Waste is not hazardous as defined by RCRA (40 CFR 261). If this product absorbs chemicals or other liquids it should be disposed of in an approved landfill. Comply with federal, state, and local regulations.

### SECTION 14 – TRANSPORT INFORMATION

Not regulated

### SECTION 15 – REGULATORY INFORMATION

Label on product conforms to EPA and OSHA safety standards

**EPA Hazard Signal Word:** CAUTION

**EEC Label (Risk/Safety Phrases):** R48/20, S22, S38

**RCRA (hazardous waste code):** none of the ingredients are listed

**IARC:** not listed as a carcinogen

**TSCA, CERCLA, SARA TITLE III, NTP, WHMIS:** not regulated

#### Proposition 65 (California)

**Chemicals known to cause cancer:** none of the ingredients are listed

**Chemicals known to cause female reproductive toxicity:** none of the ingredients are listed

**Chemicals known to cause male reproductive toxicity:** none of the ingredients are listed

**Chemicals known to cause developmental toxicity:** none of the ingredients are listed

### SECTION 16 – OTHER INFORMATION

NA = Not Applicable ND = Not Determined

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

Note: The responsibility to provide a safe workplace remains with the user. The information contained herein is based on our current knowledge and is intended to describe the product for the purposes of health, safety, and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. We assume no liability for damages incurred by the use of this product.

**Date of last revision: December 11, 2015**

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END OF SDS