



# MATERIAL SAFETY DATA SHEET

## Protect-It®

**Personal Protection:** If frequently exposed to airborne dust, wear a dust mask such as NIOSH 95 Particulate series or equivalent. Use goggles and/or gloves if eye and/or skin irritation occurs.

**HMIS: HEALTH – 1    FLAMMABILITY – 0    REACTIVITY – 0**

SECTION 1 - PRODUCT IDENTIFICATION AND USE				
Product Identifier: <b>Protect-It®</b> USEPA Reg. No. 66923-2				
Product Use: Insecticide for use in stored grain and structures				
Manufacturer's Name: Hedley Technologies (USA) Inc.			Supplier's Name:	
Address: 202 North Avenue #102, Grand Junction CO			Address:	
Postal Code: 81501			Postal Code	
Tel: 1-888-476-4473		Fax: 905-206-1413		Tel:
				Fax:
SECTION 2 - INGREDIENTS				
<b>Ingredient</b>		<b>w/w%</b>		<b>CAS Number</b>
Chemical name: Amorphous silicon dioxide*				
Natural Diatomaceous Earth – Fresh Water (DE)*		90%		61790-53-2
Silica Gel*		10%		112926-00-8
* Total crystalline silica content is <0.9%				
		<b>Total Dust PEL<sup>1</sup></b>		<b>Respirable Dust TWA</b>
Amorphos silicon dioxide		10 mg/m3		5 mg/m3
SECTION 3 - PHYSICAL DATA				
Physical State:		Fine off-white powder		Odor:
				None
Vapor Pressure:		NA		Freezing Point(°C):
				NA
Water Solubility:		Negligible		Boiling Point(°C):
				NA
Specific Gravity (water =1):		2		% Volatiles by Volume:
				Negligible
pH:		6 – 8		Evaporation Rate:
				NA
Melting Point		NA		Bulk Density
				190 g/l
SECTION 4 - FIRE AND EXPLOSION DATA				
Flammability		Not flammable		
Combustibility		Not combustible		
Unusual Fire or Explosion Hazards		Not explosive		
SECTION 5 - REACTIVITY DATA				
Chemical Stability:		Material is stable and chemically inert.		
Incompatibilities with other substances:		Soluble in hydrofluoric acid		
Hazardous Products of Decomposition:		Can include carbon dioxide and carbon monoxide		
Conditions to avoid:		None in designed use		
SECTION 6 - TOXICOLOGICAL PROPERTIES				
Primary Route of Entry:		Inhalation: x		
Other Route of Entry:		Eye contact: x	Ingestion: x	Skin absorption: NA
				Skin contact: NA
Inhalation: Mechanical irritant. May cause coughing, sneezing and soreness to throat and nose. In extreme exposures some respiratory congestion may occur.				
Eye Contact: Mechanical irritant. May cause temporary irritation or inflammation				
Skin Contact: May cause temporary drying of the skin.				
Ingestion: Not hazardous when ingested.				

**SECTION 6 – TOXICOLOGICAL PROPERTIES (cont'd)**

Personal Hygiene / Work Practices: Establish good personal hygiene and work practices. Always wash hands and face before eating, drinking or smoking.

Effects of Chronic Exposure to Product: 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 to product: ND

Irritancy of product: Transitory upper respiratory irritant (mechanical irritant)

Reproductive Effects: None

Teratogenicity: None

Mutagenicity: None

Synergistic Products: None

**SECTION 7 – PREVENTIVE MEASURES**

Eyewear Safety glasses with sideshields or goggles recommended

Footwear NA

Respirator(dust mask) Use NOISH /MSHA TC-21C-132 or equivalent for commercial application

Gloves and protective clothing Gloves, long pants and long sleeves recommended if skin irritation occurs.

Engineering Controls (Ventilation) Use sufficient natural or mechanical ventilation to keep dust level below PEL.

Leak & Spill Procedure Vacuum clean dust with equipment fitted with HEPA filter, use a dust suppressant such as water if sweeping is necessary.

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

Handling & Storage Procedures Store in a dry place. Minimize dust generation and accumulation. Avoid breathing dust. Avoid contact with eyes. 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. Continue to follow all MSDS/label warnings when handling empty containers.

Special Shipping Information NA

**SECTION 8 - FIRST AID MEASURES**

If in eyes: hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. If inhaled, drink water. If on skin, wash with soap and water. Call a poison control center or doctor for treatment advice. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**SECTION 9 - 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 10 - REGULATORY INFORMATION**

EPA Hazard Signal Word: CAUTION. Not regulated by OSHA, TSCA, CERCLA, SARA TITLE III OR NTP WHMIS: Not regulated.

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

IARC: Not listed as a carcinogen.

**SECTION 11 - PREPARATION DATE OF MSDS**

Prepared by BioSyent Inc.  
ph: 905.206.0013 fax: 905.206.1413  
Toll free: 1.888.476.4473 www.hedleytech.com

Date: May 27, 2011

NA = not applicable ND = not determined

END OF MSDS