



# MATERIAL SAFETY DATA SHEET

## Protect-It<sup>®</sup>

**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/NFPA Codes: HEALTH – 1    FLAMMABILITY – 0    REACTIVITY – 0    Protection - E

SECTION 1 - PRODUCT IDENTIFICATION AND USE			
Product Identifier: <b>Protect-It<sup>®</sup></b>		Health Canada PCP No. 24259	
Product Use: Insecticide for use in stored grain and structures			
Manufacturer's Name: Hedley Technologies Ltd.		Supplier's Name:	
Address: 2601 Matheson Blvd. E., S. 5, Mississauga ON		Address:	
Postal Code: L4W 5A8		Postal Code	
Tel: 1-888-476-4473	Fax: 905-206-1413	Tel:	Fax:
SECTION 2 - INGREDIENTS			
Ingredient	w/w%	CAS Number	
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%			
	Total Dust PEL <sup>1</sup>	Respirable Dust TWA	
Amorphous silicon dioxide	10 mg/m <sup>3</sup>	5 mg/m	
SECTION 3 - PHYSICAL DATA			
Physical State:	Fine off-white powder	Odour:	None
Vapour Pressure:	NA	Freezing Point(°C):	NA
Water Solubility:	Negligible	Boiling Point(°C):	NA
Specific Gravity (water =1):	2	% Volatiles by Volume:	ND
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:		NA	
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: Oil absorbant. May cause 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.

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 to product:	ND
Irritancy of product:	Transitory upper respiratory irritant (mechanical irritant)
Reproductive Effects:	None
Teratogenicity:	None
Mutagenicity:	None
Synergistic Products:	None

**SECTION 7 – EXPOSURE CONTROLS/PERSONAL PROTECTION**

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 (Section 2).
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 eye irritation occurs, hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice. If inhaled, move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

**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**

WHMIS:	Not regulated
Ingredient Disclosure List:	Not listed
Environmental Protection Act:	Listed on Non-domestic Substance List (NDSL)
Classified according to Controlled Products Regulations – not 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
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NA = not applicable ND = not determined

END OF MSDS