



# 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.

<b>SECTION 1 - PRODUCT IDENTIFICATION AND USE</b>				
Product Identifier: <b>Protect-It®</b>				
Product Use: Insecticide for use in stored grain and structures - PCP 24259				
Manufacturer's Name: Hedley Technologies Ltd.			Supplier's Name:	
Address: 2601 Matheson Blvd E., Suite 5 Mississauga, Ontario			Address:	
Postal Code: L4W 5A8			Postal Code	
Tel: 1-888-476-4473		Fax: 905-206-1413		Fax:
<b>SECTION 2 - INGREDIENTS</b>				
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%				
	OSHA <sup>1</sup>	ACGIH <sup>2</sup>		
Total Dust	15 mg/m3	10mg/m3		
Respirable Dust	5mg/m3	3mg/m3		
<sup>1</sup> 29 CFR 1910.1000 Table Z3, nuisance dust limits				
<sup>2</sup> 1998 TLVs and BEIs, Silica, amorphous TWA				
<b>SECTION 3 - PHYSICAL DATA</b>				
Physical State:	Fine grey powder	Odour:	No odour	
Vapour Pressure:	NA	Freezing Point(°C):	NA	
Water Solubility:	Negligible	Boiling Point(°C):	NA	
Specific Gravity (water =1):	2.3	% Volatiles by Volume:	NIL	
pH:	6-7	Evaporation Rate:	NA	
Melting point	NA			
<b>SECTION 4 - FIRE AND EXPLOSION DATA</b>				
Flammability:	Non-flammable			
Means of Extinction:	NA			
Flashpoint (°C):	Non-flammable			
Upper Flammable Limit (% by volume):	NA			
Lower Flammable Limit (% by volume):	NA			
Auto-Ignition Temperature (°C):	NA			
Special Fire-fighting Procedures:	none			
Unusual Fire or Ignition Products:	none			
<b>SECTION 5 - REACTIVITY DATA</b>				
Chemical Stability:	Material is stable and chemically inert. Hazardous polymerization cannot occur			
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			
<b>SECTION 6 - TOXICOLOGICAL PROPERTIES</b>				
Primary Route of Entry:	Inhalation: x			
Other Route of Entry:	Eye contact: x	ingestion: x	skin absorption:	skin contact:
Effects of Acute Exposure to Product: Mechanical irritant. Irritation and soreness to throat and nose. In extreme exposures some congestion may occur.				

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

Eye Contact: Mechanical irritant. Temporary irritation or inflammation

Skin Contact: May cause drying of the skin. In case of contact, wash skin with soap and water. Call a physician if drying persists.

Ingestion: Not hazardous when ingested.

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.

Sensitisation to product: n/d

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

Reproductive Effects: No

Teratogenicity: No

Mutagenicity: No

Synergistic Products: None

**SECTION 7 – PREVENTIVE MEASURES**

Eyewear Safety glasses with sideshields or goggles recommended

Footwear n/a

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 n/d

**SECTION 8 - FIRST AID MEASURES**

Inhalation: Remove to fresh air. Drink water to clear throat and blow nose to evacuate dust.

Eyes: Flush eyes with large quantities of water. If irritation persists consult a physician.

Skin Contact: for dry skin rinse with water Skin Absorption: n/a Ingestion: n/a

**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 - PREPARATION DATE OF MSDS**

Prepared by Hedley Technologies Ltd.  
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Toll free: 1.888.476.4473 www.hedleytech.com

Date: December 17, 2008

n/a = not applicable n/d = not determined

END OF MSDS