

PROTECT-ITTM
MATERIAL SAFETY DATA SHEET

HMIS (Hazard Materials Identification System):

Health	0 (least severe)
Flammability	0 "
Reactivity	0 "

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.

1. PRODUCT AND COMPANY IDENTIFICATION

<i>Trade Name:</i>	Protect-It TM (EPA Reg. No. 66923-2, PCP #24259)
<i>Generic Names:</i>	Diatomaceous earth (CAS 61790-53-2), Silica gel (CAS 112926-00-8)
<i>Chemical Name:</i>	Amorphous silicon dioxide
<i>Formula:</i>	Predominately SiO ₂
<i>Manufacturer:</i>	Hedley Technologies Inc.
<i>Addresses:</i>	202 North Avenue #102, Grand Junction CO 81501
<i>Phone/Internet</i>	1-888-476-4473, Fax 905-206-1413, www.hedleytech.com

2. 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.
Other: Wash skin with water if excessive dryness occurs.

3. FIRE FIGHTING MEASURES

<i>Flash point:</i>	Non-flammable
<i>Flammable limits (LEL & UEL)</i>	NA (Not Applicable)
<i>Extinguishing Media:</i>	NA
<i>Unusual fire or explosion hazards:</i>	NA
<i>Special fire fighting procedures:</i>	NA
<i>NFPA Flammable/Combustible Liquid Classification:</i>	NA
<i>Auto-ignition temperature:</i>	NA

4. HAZARD IDENTIFICATION

Primary entry routes: Inhalation and dust contact with eyes. Inhalation may result in irritation, soreness of nose, sinuses and throat. In extreme cases some congestion may occur. Eyes may become dry or inflamed.
Not hazardous when ingested. Skin may become dry, but no absorption occurs.

Acute health effects: Transitory upper respiratory or eye irritation.

Medical conditions which may be aggravated: Pre-existing conditions such as upper respiratory and lung diseases such as, but not limited to, silicosis, bronchitis, emphysema and asthma, conjunctivitis of the eye, and severe dermatitis. Target organs are the lungs and eyes.

Chronic health effects: This product contains natural (uncalcined) diatomaceous earth 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.

5. ACCIDENTAL RELEASE MEASURES

Procedures for spill/leak: Wear a suitable dust mask. Vacuum with equipment fitted with HEPA filter or sweep using a dust suppressant such as water.

6. HANDLING AND STORAGE

Handling: Avoid breathing dust. Avoid contact with eyes. Minimize dust generation and accumulation. Avoid buildup of static electrical charge by proper grounding of handling and application equipment. Seal broken containers immediately.

Storage: Store in a dry location.

7. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ventilation: Wear a dust mask when applying this product - PEL will be exceeded. Avoid wind and use of fans to keep respirable dust below maximum PEL (3 mg/M³, see Section 9, below) after dust has settled (generally one to two hours).

Respirator (dust mask): NOISH/MSHA TC-21C-132 particulate series or equivalent is required for commercial

application.

Goggles: Recommended if eye irritation occurs.

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

8. ENVIRONMENTAL AND DISPOSAL INFORMATION

Environmental: This product is chemically inert and is not hazardous as defined by RCRA (40 CFR 261). It is not toxic to plants or animals (except insects, arachnids and land gastropods when dry).

Disposal: Continue to follow all MSDS and Label warnings when handling empty containers. If this product absorbs chemicals or other liquids it should only be disposed in an approved landfill. Otherwise dispose in regular trash.

9. PEL - TWA (Permissible Exposure Limit - Time Weighted Average)

<u>Ingredient Name</u>	OSHA ¹		ACGIH ²	
	<u>Total Dust</u>	<u>Respirable Dust</u>	<u>Total Dust</u>	<u>Respirable Dust</u>
Amorphous silicon dioxide*	15 mg/m ³	5 mg/m ³	10 mg/m ³	3 mg/m ³
* Diatomaceous Earth (90%)				
* Silica Gel (10%)				
* Crystalline silica (up to 0.9%)				

¹ 29 CFR 1910.1000 Table Z3, nuisance dust limits

² 1998 TLVs and BEIs, Silica, amorphous TWA

10. PHYSICAL AND CHEMICAL PROPERTIES

<i>Appearance and odor:</i>	fine buff powder, no odor
<i>Boiling point:</i>	NA
<i>Vapor pressure:</i>	NA
<i>Water solubility:</i>	Negligible
<i>Evaporation rate:</i>	NA
<i>Melting point:</i>	NA
<i>Vapor density:</i>	NA
<i>Specific gravity (water = 1):</i>	2.3
<i>% Volatiles by volume:</i>	Nil
<i>pH:</i>	6 – 7
<i>Bulk density (tap)</i>	12 lbs per cubic foot

11. STABILITY AND REACTIVITY

Chemical incompatibilities: Soluble in hydrofluoric acid.

Conditions to avoid: Wind. Otherwise none in designed use. Material is stable and chemically inert. Hazardous polymerization cannot occur.

12. TRANSPORTATION INFORMATION

D.O.T. proper name: Earth, diatomaceous, crude or ground, amorphous precipitated silica.

Hazard classification: None.

Reportable quantities: NA

United Nations or North America Number: NA

13. REGULATORY INFORMATION

EPA - exempt from tolerance residues in food and feed (40 CFR 180.1001(c-e), 40 CFR 180.1017, 40 CFR 185.1700, 40 CFR 186.1700, 21 CFR 182.90, 29 CFR 182.1711)

OSHA Hazard Communications Standard (29 CFR 1910.1200): see Section 4 of this MSDS.

RCRA (40 CFR 261): Not defined as hazardous waste

TSCA (Sec 4,5,6,7,12): Not listed, not regulated.

CERCLA: Not reportable, local regulations may vary.

SARA: 311/312 hazard categories - immediate and delayed health effects, no 313 reportable ingredients.

WHMIS: Not regulated

14. OTHER INFORMATION

Storage Segregation Hazard Classes: NA

Special Handling/Storage: Repair or discard all broken containers immediately.

Special Workplace Engineering Controls: Avoid wind and use of fans to keep dust level below maximum PEL after application, or wear a suitable dust mask (see Section 7 of this MSDS).