



# Material Safety Data Sheet

**INSECTO**

No.: 0001  
Rev Date: 2/15/2005

Rev No.: 03

NFPA FIRE HAZARD SYMBOL  
See NFPA 704 for detailed explanation.  
\* See Section 3 HAZARD IDENTIFICATION

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**TRADE NAME(S):** : INSECTO An Insecticide for Control of Grain Insects and House Insects

**GENERIC NAME** : NATURAL DIATOMACEOUS EARTH **CAS:** 61790-53-2

**CHEMICAL NAME** : SILICA **EINECS:** 310-127-6

**MANUFACTURER** : Natural Insecto Products, Inc. **FORMULA:** SiO<sub>2</sub>

**ADDRESS** : 221 Sherwood Pl, PO Box 12138 **TELEPHONE:** 949-548-4275

**CITY:** Costa Mesa **STATE:** CA **ZIP:** 92627 **EMERGENCY:** CHEMTREC-USA 800-424-9300  
Int'l (703) 527-3887

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS NUMBER	%	PEL AND TLV (except as noted)
NATURAL DIATOMACEOUS EARTH (DE) - AMORPHOUS SILICA	61790-53-2	90	
THIS PRODUCT MAY CONTAIN UP TO 6.3% CRYSTALLINE SILICA:			
CRISTOBALITE	14464-46-1	< 2.7	.05mg/M <sup>3</sup> RESPIRABLE CRISTOBALITE, OSHA
QUARTZ	14808-60-7	< 3.6	.1mg/M <sup>3</sup> RESPIRABLE QUARTZ, OSHA

## 3. HAZARD IDENTIFICATION

**Summary:** THIS PRODUCT CONTAINS CRYSTALLINE SILICA (CS), WHICH IS CONSIDERED A HAZARD BY INHALATION. IARC HAS CLASSIFIED INHALATION OF CS AS CARCINOGENIC FOR HUMANS (GROUP 1). CS IS LISTED BY NTP AS A KNOWN HUMAN CARCINOGEN. INHALATION OF CS IS ALSO A KNOWN CAUSE OF SILICOSIS, A NONCANCEROUS LUNG DISEASE.

**Medical Conditions Which May Be Aggravated:** PRE-EXISTING UPPER RESPIRATORY AND LUNG DISEASE SUCH AS, BUT NOT LIMITED TO, BRONCHITIS, EMPHYSEMA AND ASTHMA. **Target Organ(s):** LUNGS, EYES

**Acute Health Effects** : TRANSITORY UPPER RESPIRATORY OR EYE IRRITATION.

**Chronic Health Effects** : INHALATION OF CRYSTALLINE SILICA HAS BEEN CLASSIFIED BY IARC AS CARCINOGENIC FOR HUMANS (GROUP 1). INHALATION OF CRYSTALLINE SILICA IS ALSO A KNOWN CAUSE OF SILICOSIS, A NONCANCEROUS LUNG DISEASE CAUSED BY EXCESSIVE EXPOSURE TO CRYSTALLINE SILICA.

**Primary Entry Route(s)** : INHALATION, DUST CONTACT WITH EYES.

**Inhalation** : IRRITATION AND SORENESS IN THROAT AND NOSE. IN EXTREME EXPOSURES, SOME CONGESTION MAY OCCUR.

**Eyes** : TEMPORARY IRRITATION OR INFLAMMATION

**Skin Contact** : N/A **Skin Absorption** : N/A **Ingestion:** NOT HAZARDOUS WHEN INGESTED.

## 4. 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** : N/A **Skin Absorption** : N/A **Ingestion:** N/A

## 5. FIRE FIGHTING MEASURES

**Flash Point (Method)** : NONFLAMMABLE **NFPA Flammable / Combustible Liquid Classification** : N/A

**Flammable Limits** : LEL: N/A UEL: N/A **Auto-Ignition Temperature** : N/A

**Extinguishing Media** : N/A **Special Fire-Fighting Procedures** : NONE

**Unusual Fire or Explosion Hazards:** NONE

## 6. ACCIDENTIAL RELEASE MEASURES

**Procedures for Spill / Leak** : VACUUM CLEAN DUST WITH EQUIPMENT FITTED WITH HEPA FILTER. USE A DUST SUPPRESSANT SUCH AS WATER IF SWEEPING IS NECESSARY.

**7. HANDLING AND STORAGE**

MINIMIZE DUST GENERATION AND ACCUMULATION. AVOID BREATHING DUST; AVOID CONTACT WITH EYES. SEAL BROKEN BAGS IMMEDIATELY. CONTINUE TO FOLLOW ALL MSDS / LABEL WARNINGS WHEN HANDLING EMPTY CONTAINERS.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Goggles** : GOGGLES OR SAFETY GLASSES WITH SIDESHIELDS ARE RECOMMENDED.  
**Gloves** : NOT NORMALLY REQUIRED.  
**Respirator** : <10X PEL, USE AN N95 QUARTER- OR HALF-MASK RESPIRATOR; <50X PEL, USE A FULL-FACE RESPIRATOR EQUIPPED WITH N95 FILTERS; <200X PEL, USE A POWERED AIR PURIFYING RESPIRATOR (POSITIVE PRESSURE) WITH N95 FILTERS; >200X PEL, USE A FULL-FACE, TYPE C SUPPLIED-AIR RESPIRATOR (CONTINUOUS FLOW MODE).  
**Ventilation** : USE SUFFICIENT NATURAL OR MECHANICAL VENTILATION TO KEEP DUST LEVEL BELOW PEL.  
**Other: Special Considerations for Repair/Maintenance of Contaminated Equipment:** INSURE PROPER RESPIRATORY PROTECTION.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance and Odor</b>	:	FINE GRAY POWDER; NO ODOR			
<b>Boiling Point</b>	:	N/A	<b>Evaporation Rate ( = 1)</b>	:	N/A
<b>Vapor Pressure</b>	:	N/A	<b>Melting Point</b>	:	ND
<b>Water Solubility (%)</b>	:	NEGLIGIBLE	<b>Vapor Density (Air = 1)</b>	:	N/A
			<b>Specific Gravity (Water = 1)</b>	:	2.3
			<b>% Volatile by Volume</b>	:	NIL
			<b>pH</b>	:	5-10

**10. STABILITY AND REACTIVITY**

MATERIAL IS STABLE; HAZARDOUS POLYMERIZATION CANNOT OCCUR.

**Chemical Incompatibilities** : HYDROFLUORIC ACID      **Conditions to Avoid** : NONE IN DESIGNED USE

**11. TOXICOLOGICAL INFORMATION**

**Summary** : THIS PRODUCT CONTAINS CRYSTALLINE SILICA (CS), WHICH IS CONSIDERED A HAZARD BY INHALATION. IARC HAS CLASSIFIED CS AS CARCINOGENIC FOR HUMANS (GROUP 1). CS IS LISTED BY NTP AS A KNOWN HUMAN CARCINOGEN. CS IS ALSO A KNOWN CAUSE OF SILICOSIS, A NONCANCEROUS LUNG DISEASE.

**12. ECOLOGICAL INFORMATION**

GENERALLY CONSIDERED CHEMICALLY INERT IN THE ENVIRONMENT. USED MATERIAL WHICH HAS BECOME CONTAMINATED MAY HAVE SIGNIFICANTLY DIFFERENT CHARACTERISTICS BASED ON THE CONTAMINANT AND SHOULD BE EVALUATED ACCORDINGLY.

**13. DISPOSAL CONSIDERATIONS**

WASTE IS NOT HAZARDOUS AS DEFINED BY RCRA (40 CFR 261). OTHER STATE AND LOCAL REGULATIONS MAY VARY; CONSULT LOCAL AGENCIES AS NEEDED. USED MATERIAL WHICH HAS BECOME CONTAMINATED MAY HAVE SIGNIFICANTLY DIFFERENT CHARACTERISTICS BASED ON THE CONTAMINANTS AND SHOULD BE EVALUATED ACCORDINGLY.

**14. TRANSPORTATION INFORMATION**

**D.O.T. Proper Shipping Name** : EARTH, DIATOMACEOUS, CRUDE OR GROUND  
**Reportable Quantities** : N/A  
**UN (United Nations) / NA (North America) Number** : N/A      **Hazard Classification** : NOT CLASSIFIED

**15. REGULATORY INFORMATION**

**OSHA Hazard Communications Standard, 29 CFR 1910.1200** : MATERIAL IS CONSIDERED HAZARDOUS; SEE SECTION 3.  
**RCRA** : THIS MATERIAL IS NOT DEFINED AS HAZARDOUS WASTE PER 40 CFR 261.  
**TSCA** : THIS MATERIAL IS LISTED IN THE TSCA INVENTORY, AND IS NOT OTHERWISE REGULATED BY TSCA SEC. 4, 5, 6, 7 OR 12.  
**CERCLA** : MATERIAL IS NOT REPORTABLE UNDER CERCLA; LOCAL REQUIREMENTS MAY VARY.  
**SARA** : 311/312 HAZARD CATEGORIES - IMMEDIATE AND DELAYED HEALTH; 313 REPORTABLE INGREDIENTS - NONE.  
**Canada** : THIS PRODUCT IS LISTED ON THE DSL.  
**California Proposition 65** : THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

**16. OTHER INFORMATION**

**Storage Segregation Hazard Classes** : N/A  
**Special Handling / Storage** : REPAIR ALL BROKEN BAGS IMMEDIATELY  
**Special Workplace Engineering Controls** : ADEQUATE VENTILATION TO KEEP DUST LEVEL BELOW PEL

**PREPARED / REVISED BY:** JIM HUBER

**TITLE:** PRESIDENT