

MSDS Number: 340

Issue Number: 006

Issue Date: October 2008

Agrichem (International) Limited

Material Safety Data Sheet

SECTION 1 Identification of Preparation and Company	
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Product Name:	Agrichem DiaMite Grain Protector
Synonyms:	Dia-Secticide, Di-Alginate, Melocide DS-100 & 200, Diatomaceous Earth
Intended Use:	Insecticide – for the control of crawling insect pests in all types of stored or transported grain.

SECTION 2 Hazards Identification	
Health:	According to experience, the product is considered to be harmless to health if handled in the correct manner.
Environmental:	According to experience, the product is harmless to the environment if handled in the correct manner.
Further Information:	Contains substances with Occupational Exposure Limits.

SECTION 3 Composition/Information on Ingredients				
Formulation:	Dry powder containing natural diatomaceous earth			
<u>IUPAC Names:</u>	<u>CAS Numbers</u>	<u>EINECS/ELINCS</u>	<u>Classification</u>	<u>Concentration:</u> (in bulk powder)
Natural diatomaceous earth	61790-53-2	231-546-4	-	95%
Crystobalite (SiO ₂)	14464-46-1	238-435-4	R48/20	<0.5%
Quartz (SiO ₂)	14808-60-7	238-878-4	R48/20	<0.5%
Other components are either not CHIP classified or are below the concentration limit for classification				Balance

SECTION 4 First Aid Measures	
<u>General Information</u>	Blow nose to evacuate dust and swill any residual dust from throat with water.
Inhalation:	If inhaled, provide fresh air, warmth, rest and SEEK MEDICAL ADVICE.
Ingestion:	If product is swallowed, do NOT induce vomiting. Drink plenty of water and if necessary, seek medical advice.
Eye Contact:	Rinse immediately with plenty of water until irritation subsides.
Skin Contact:	Clean areas of skin affected with soap and plenty of water.
Guide to doctor:	Treat symptomatically.

SECTION 5 Fire Fighting Measures	
General hazard	THE PRODUCT IS NON-COMBUSTIBLE
Extinguishing media	To suit local surroundings (e.g. water spray, carbon dioxide, foam, chemical powder)
Extinguishing media not to be used	_____
Special exposure hazards	Avoid inhalation of dust
Protective equipment	Wear self-contained breathing apparatus

SECTION 6 Accidental Release Measures	
Personal protection	Avoid contact with skin or eyes. Avoid ingestion.
Environmental precautions	Do not contaminate surface waters, ditches or vegetation with chemical or used container.
Spillage and Decontamination:	Avoid creating dust. Collect by vacuum cleaning into bins or bags for disposal.

SECTION 7 Handling and Storage	
Handling:	Use appropriate engineering controls to avoid creating dust. Ensure there is sufficient ventilation of the area. Avoid contact with skin/eyes. When using do not eat, drink or smoke. Wash hands and exposed skin before meals and after work. Wet powder on floor could be slipping hazard.
Storage:	Store dry and cool, in a covered area and in the tightly closed original containers. Keep separate from animal feeding stuffs and fertilizers, segregate from other agrochemicals in specific agrochemical store.
Packaging:	20kg and 30kg

SECTION 8 Exposure Controls/Personal Protection					
Monitoring of the workplace should be considered in accordance with Community Exposure Limits (EH40 etc.) or other data as indicated below.					
OES data for Diatomaceous earth natural respirable dust EH40 (2002)	LTEL (8 hour TWA)	ppm	1.2	mg/m ³	
MEL data for Silica crystalline quartz respirable dust EH40 (2002)	STEL (15 min)	ppm		mg/m ³	
	LTEL (8 hour TWA)	ppm	0.3	mg/m ³	
MEL data for Silica crystalline quartz respirable dust EH40 (2002)	STEL (15 min)	ppm		mg/m ³	
	LTEL (8 hour TWA)	ppm	0.5	mg/m ³	
	STEL (15 min)	ppm		mg/m ³	

SECTION 8 cont.

Engineering controls:	Ensure there is sufficient ventilation of the area. Provide powered extraction when ventilation is inadequate.
Personal protection:	Wash hands before breaks and after work. Wear personal protective equipment appropriate to the task (see below). Avoid breathing dust.
Respiratory protection:	Respiratory masks to achieve adequate protection factor in respect of exposure limits for the work period concerned. Masks should conform to EN 149FFP2. Safety goggles with side shields. Eye protection should conform to BSEN 166.
Eye protection:	--
Skin protection:	--
Other protection:	Personal protective equipment should be selected as appropriate to the nature and aggressiveness of the identified hazard(s). It should be regularly inspected for such things as soundness against leaks, bad fitting and possible chemical penetration.
Further information:	Recommended safe user periods should never be exceeded.

SECTION 9 Physical and Chemical Properties

Appearance:	Off-white to pale yellow fine powder, or granules.		
Odour:	None		
Molecular formula:	S ₁ O ₂ (main component is Amorphous silica dioxide)		
Boiling Point:	Decomposes .2200°C	Vapour Density:	Not applicable
Melting point	Appr. 1800°C	Vapour Pressure:	Not applicable
pH:	No data	Density:	Natural diatoms in bulk: 0.15 – 0.45g/cc
Flash Point °C:	Not applicable	Solubility in Water:	insoluble
Flammability	Not applicable	Solubility in Organic Solvents:	No data.
Explosive properties	No data	Part.coeff. n-octanol/water	No data.
Oxidising	No data	Additional Information:	Material is highly absorbent.

SECTION 10 Stability and Reactivity

Stability:	Product is very stable under normal conditions of handling.		
Conditions to avoid:	Data not supplied	Hazardous reactions:	None known.
Materials to avoid:	Data not supplied		
Hazardous combustion or decomposition product:	Not known.		

SECTION 11 Toxicological Information	
Inhalation:	Inhalation of dust can cause transitory irritation of the upper respiratory tract.
Inhalation LC ₅₀ :	No available data.
Oral LD ₅₀ :	Rat > 2.5g/kg
Skin Contact:	No available data.
Dermal LD ₅₀ :	No available data.
Eye Contact:	Contact with eyes may cause some irritancy due to scratching of the eyeball.
Mutagenicity, Carcinogenicity Reproductive toxicity:	No available data.
Further Information:	Chronic toxicity: Prolonged and repeated exposure by inhalation of dust can cause pulmonary disease.

SECTION 12 Ecological Information	
	Not inherently toxic. Large deposits may cause temporary disruption of the aquatic system. Report any contamination of surface or ground waters to the National Rivers Authority or River Purification Board
Ecotoxicity:	NOEL fish: > 10g /l/ 96h. NOEL Daphnia: > 1g /l/ 24h.
Mobility:	No data
Persistence and degradability:	Not degradable. No data
Bioaccumulative potential:	

SECTION 13 Disposal Considerations	
Waste Disposal:	Dispose of at an authorised waste disposal site (consult local Environment Agency office for details on regulations and available sites).

SECTION 14 Transport Information			
This product is NOT CLASSIFIED for transport			
UN Number:		Packing Group:	
Sea			
IMDG Class-primary:	None		
Proper Shipping Name:	None		
EMS Number:	None		
MFAG Table Number:	None		
Road/Rail		TREMCARD No:	None
ADR (94/55/EEC)	None	Air	None

SECTION 15 Regulatory Information	
Classification and labelling	This product is categorised in accordance with the Chemicals (Hazard Information and Packaging for Supply) Regulations (CHIP 3). Include on Product Labelling: A Safety Data Sheet is available for the professional user on request.
Safety phrases:	S22; Do not breathe dust. S25; Avoid contact with eyes.

The data given in this sheet is based on current knowledge and experience and is given in good faith but without guarantee of accuracy and no liability is accepted whatsoever for any insufficiency or inaccuracy in such data in any case whatsoever.

The purpose of the Material Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regards to materials, properties or use.