

# MATERIAL SAFETY DATA SHEET

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Product Name: **MOLODRI**

**Not classified as a hazardous substance according to criteria of NOHSC**

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

**Product name** MOLODRI  
**Product use** Used as a taste enhancer and smell attractant in animal feeds. Improves palatability and maximises feed intake.  
**Company Name** Mount Sylvania Diatomite Pty Ltd.  
**Address** 35 Wongoola Close, O'Conner, ACT, 2606  
**Emergency Tel.** 02 6161 5992  
**Telephone/fax** 02 6161 5992 Fax: 02 6248 6066

## 2. HAZARDS IDENTIFICATION

Not classified as hazardous according to the criteria of NOHSC. Must be stored under dry, well ventilated conditions.

If contaminated with extra moisture it may start to ferment and produce carbon dioxide and traces of ethanol or volatile fatty acids and may ignite if exposed to a spark or flame. Material may spontaneously decompose if stored at temperatures above 60 degrees Celsius.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Composition, Information on ingredients** 50% diatomaceous earth which is a natural product derived from the remains of freshwater plankton. 50% molasses. The product contains less than 2% respirable crystalline silica. Stabiliser added at 0.1%.

<b>Chemical Ingredients</b>	<b>Powder</b>	<b>CAS</b>	<b>Proportion</b>
	<b>Name</b>		
	Diatomaceous earth	61790-53-2	48%
	Silica as quartz and cristobalite	14808-60-7	<2%
		14464-46-1	
	Molasses	NA	50%

**Other information** **Mineralogy**  
Amorphous silica as diatom micro fossils generally 48%, cristobalite and quartz generally less than 2%.

## 4. FIRST AID MEASURES

**Inhalation** Move the victim to fresh air. Drink a glass of water to clear throat and blow nose to evacuate dust. If irritation persists see a doctor.  
**Ingestion** Wash out mouth with water. If irritation persists seek medical advice.  
**Skin** Wash gently with water and non abrasive soap. If irritation develops and persists, seek medical attention.  
**Eye** If contact with eye(s) occurs, wash with water while holding lid open. If irritation persists, seek medical attention.  
**First aid facilities** Eye wash and normal wash room facilities.  
**Advice to doctor** Treat symptomatically

## 5. FIRE FIGHTING MEASURES

**Flammability** Will burn only under conditions of extreme heat, produces black acrid smoke.  
**Means of extinction** Water  
**Flashpoint** Not determined. Auto-ignition temperature 60 degrees C.

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**Special fire fighting procedures**

Use NIOH approved self-contained breathing apparatus.

**Unusual fire and explosion hazards**

Material may spontaneously decompose at temperatures over 60 degrees C. The gasses given off produce inhalation hazards and possible explosion hazards.

## **6. ACCIDENTAL RELEASE MEASURES**

Wear sufficient respiratory protection and protective clothing and sweep up material avoiding dust generation and transfer material to a suitable container. Prevent the release from entering a waterway or sewer. Dispose of any contaminated material at an approved facility such as a municipal landfill.

## **7. HANDLING AND STORAGE**

This material is stable and should be stored in well ventilated, dry, cool environment. The material can ferment if contaminated with moisture. Avoid temperatures in excess of 60 degrees C. Avoid storage with oxidisers.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure limits**

The following National Occupational Health and Safety Commission (NOHSC) Exposure limits apply:

SUBSTANCE	TWA	
	ppm	mg/m <sup>3</sup>
Silica: quartz, cristobalite	-	0.2
Silica: amorphous (diatomaceous earth)	-	10
Dust, not otherwise specified		10

**Other exposure Information**

TWA – The Time-Weighted Average airborne concentration over an eight hour working day, for a five-day working week over an entire working life. According to current knowledge these concentrations should neither impair the health of, nor cause undue discomfort to nearly all workers. These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept as low as possible. Exposure standards should not be used as a fine dividing line between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

**Respiratory Protection**

Molodri is not a particularly dusty material, but where sufficient ventilation is not available, avoid breathing dusts by wearing an AS 1716 approved particulate filter respirator.

**Eye protection**

The use of chemical goggles or safety glasses with side shield protection is recommended.

**Hand protection**

The use of nitrile gloves is recommended.

**Eng. Controls**

Natural ventilation should be sufficient, however a mechanical exhaust system is recommended if the product is being handled in a poorly ventilated area.

**Other information**

Biological Limit Values: No biological limit allocated.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance**

Soft, brown to dark brown powder.

**Odour**

Has the sweet smell of molasses

**Melting point**

Not available.

**Boiling point**

Not available

**Solubility in water**

50% soluble

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<b>Specific gravity</b>	Not available
<b>Vapour pressure</b>	Not applicable
<b>Flash point</b>	Not determined. Auto-ignition temperature 60 degrees C.
<b>Flammability</b>	Will only burn under conditions of extreme heat, produces black acrid smoke.
<b>Flammable limits</b>	Not determined.

## **10. STABILITY AND REACTIVITY**

<b>Stability</b>	Stable under normal conditions of use.
<b>Hazardous</b>	Will not occur.
<b>Polymerisation</b>	
<b>Incompatibility</b>	None
<b>Conditions to avoid</b>	Heat over 60 degrees C.

## **11. TOXICOLOGICAL INFORMATION**

**Toxicology information** No toxicology information is available for this product. However for crystalline silica the following data has been extracted from the Register of Toxic Effects of Chemical Substances:

### **TOXICITY**

Inhalation (human) LCLo: 0.3/m<sup>3</sup>/10Y

Inhalation (human) TCLo: 16mppcf/8H/17.9Y

-Intermittent; focal fibrosis, (pneumoconiosis), cough, dyspnoea.

Inhalation (rat) TCLo: 50mg/m<sup>3</sup>/6H/71W

-Intermittent; liver – tumours.

**WARNING:** For inhalation exposure only : Crystalline silica (respirable size <=7µm) has been classified by the IARC as Group 1 **CARCINOGENIC TO HUMANS.**

**NOTE:** The physical nature of quartz in the product determines whether it is likely to present a chronic health problem. To be a hazard the material must enter the breathing zone as respirable particles. In Molodri all particles are covered with molasses and are unlikely to be <=7µm.

<b>Inhalation</b>	Inhalation of Molodri dust may cause irritation to the mucous membrane and upper airways. Symptoms of exposure can include nausea, coughing, sneezing and breathing difficulties.
<b>Ingestion</b>	Not a likely source of exposure.
<b>Skin</b>	May cause drying of the skin resulting in redness and itching.
<b>Eye</b>	May cause mechanical irritation in contact with the eyes.
<b>Chronic Effects</b>	Prolonged or repeated exposure to this material may result in irritation to the eyes and respiratory tract. As this product may contain traces of respirable silica, bronchitis, silicosis, and lung cancer may occur if the required dust mask is not worn during prolonged and repeated exposure. Studies have shown that smoking increases the risk in persons exposed to crystalline silica.

## **12. ECOLOGICAL INFORMATION**

<b>Ecotoxicity</b>	Prevent spillage into water. Results in high Biological Oxygen Demand (BOD) and potential oxygen depletion in aquatic systems
<b>Persistence/degradability</b>	No data is available for this material.
<b>Mobility</b>	50% of the product will dissolve in water.

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## **13. DISPOSAL CONSIDERATIONS**

**Disposal method and containers** Dispose of waste material at an approved municipal landfill or land application site. No special containers are required.

## **14. TRANSPORT INFORMATION**

**ADG UN Number** None allocated  
**ADG Proper** None allocated  
**Dangerous goods class** None allocated  
**Subsidiary Risk** None  
**Hazchem Code** None allocated  
**Special Precautions for user** Avoid temperatures above 60 degrees C.

## **15. REGULATORY INFORMATION**

**Poisons schedule** Not scheduled  
**Ingredients** Diatomaceous earth (50%), Molasses (50%), Stabiliser (0.1%). No Poisons Schedule for these components.

## **16. OTHER INFORMATION**

**Contact person/Point** Manager: Ph 61-2-61615992, Mine: 61-7-54629137

**SDS History** MSDS prepared October 2006 by M.E. I'Ons, Director.

**END OF MSDS**