

Uni-ram Corporation

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

Product Name: COAG-KLEEN FP
Product Description: Waste Water Treatment Clay Blend

Supplier:
UNI-RAM CORPORATION
381 Bentley Street
Markham, Ontario, Canada, L3R 9T2
Tel: 905-477-5911 Fax: 905-477-8922
After Hours: 1-800-417-9133 EXT 101

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS#	%RANGE	TLV LD50 (mg/Kg)	
Crystalline Silica as Quartz	14808-60-7	1 - 5	N/A	ND
Aluminum Sulphate	10043-01-3	10-30	N/A	1,930 (oral, rat)
Sodium Carbonate	497-19-8	15-40	N/A	4090 (oral, rat)

The other components of this product are not considered hazardous under WHMIS regulations.

3. HAZARDS IDENTIFICATION

Route of Entry:

Skin Contact: May cause irritation. *Eye*

Contact: Irritating to eyes.

Inhalation: Warning; Acute (short term) exposure to dust levels exceeding the PEL may cause irritation of the respiratory tract resulting in a dry cough.
Chronic (long term) exposure to airborne crystalline silica (quartz) may lead to silicosis or respiratory problems. Symptoms include cough, shortness of breath, wheezing, no-specific chest illness and reduced pulmonary function. Crystalline silica inhaled in the form of quartz or cristobalite is considered carcinogenic to humans. Smoking exacerbates this disease. Individual with silicosis are predisposed to develop tuberculosis. Individuals with respiratory disease, including but not limited to asthma and bronchitis, or subject to eye irritation should not be exposed to respirable crystalline silica (quartz) dust. Breathing silica dust may not cause noticeable injury or illness even though permanent lung damage may occur.

Ingestion: Not Available

4. FIRST AID MEASURES

<i>Skin contact:</i>	Immediately and thoroughly flush affected area with water. Obtain medical attention immediately if irritation persists
<i>Eye contact:</i>	Immediately and thoroughly flush eyes and under eyelids with water for 15 minutes. Obtain medical attention immediately.
<i>Inhalation:</i>	Remove victim from hazard. Apply artificial respiration if not breathing. Obtain medical attention immediately
<i>Ingestion:</i>	If swallowed, obtain medical attention immediately

5. FIRE-FIGHTING MEASURES

<i>Conditions of Flammability:</i>	Not Controlled.
<i>Suitable extinguishing media:</i>	Use media appropriate to extinguish surrounding fire. Wear full protective equipment including a self-contained breathing apparatus.
<i>Special fire-fighting precautions:</i>	
<i>Flash Point (C):</i>	Not Applicable
<i>Auto Ignition Temperature (C):</i>	Not Applicable
<i>Flammable Limits in Air % by Volume:</i>	Not Applicable
<i>Explosion Data:</i>	Not Applicable
<i>Sensitivity to Static Discharges:</i>	Not Available
<i>Hazardous Combustion Products:</i>	See Section 10

6. ACCIDENTAL RELEASE MEASURES

<i>Personal precautions:</i>	Wear protective clothing, gloves and breathing apparatus.
<i>Environmental precautions:</i>	Do not contaminate water.
<i>Methods for cleaning up:</i>	Avoid breathing dust; wear respirator approved for silica dust. Vacuum up to avoid generating airborne dust. Avoid using water. Product slippery when wet.

7. HANDLING AND STORAGE

<i>Handling:</i>	Handle in accordance with good industrial hygiene and safety practices.
<i>Storage:</i>	Store in a cool, dry and well-ventilated location.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<i>Engineering controls:</i>	General ventilation or local exhaust is recommended.
<i>Respiratory protection:</i>	A NIOSH/MSHA approved respirator is recommended. If while wearing a respirator of any kind you can smell, taste or otherwise detect anything unusual leave the area immediately and check the equipment.
<i>Skin protection:</i>	Wear work pants, long sleeve work shirt and impervious apron and gloves. Discard contaminated gloves after use.

Hygiene measures: Wash hands before breaks and at the end of the workday. Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odour:	Tan to Gray granular and powder
Physical State:	Solid
Odour Threshold:	No Odour
Bulk Density:	1.15 g/cc
pH:	ND
Solubility in Water:	Insoluble, forms colloidal suspension
Freezing Point (C):	NA
Melting Point (F):	NA
Vapour Pressure (mmHg):	ND
Vapour Density (Air=1):	ND
Evaporation Rate: Coef. Of	ND
Water/Oil:	ND

10. STABILITY AND REACTIVITY

Stability:	Product is stable.
Materials to avoid:	Acids, oxidizing agents.
Hazardous decomposition products:	Silica will dissolve in hydrofluoric acid producing a corrosive gas, silicon tetrafluoride.

11. TOXICOLOGICAL INFORMATION

Exposure Limits of Material

LC 50 of Material, Species & Route:	Not Available
LD50 of Material, Species & Route:	See Section 2
Carcinogenicity of Material:	IARC has concluded that crystalline silica in the form of quartz or cristobalite from occupational sources should be classified as carcinogenic to humans (group 1), upgraded from its previous classification as probably carcinogenic to humans (group 2A). This conclusion was drawn on the basis of a relatively large number of human population studies that together provide sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica. In many (although not all) of these studies, lung cancer risk are elevated and could not be explained by other factors. Recent reviews have tended to conclude that if exposures are controlled to prevent silicosis, they will probably also prevent cancer. The risk of developing silicosis depends on airborne concentration of crystalline silica, the particle size and duration of exposure. The NTP identifies crystalline silica (respirable size) as a substance which may reasonably be anticipated to be a carcinogen. ACGIH has not assigned a carcinogenic designation for crystalline silica. 1)
Reproductive Effects: Irritancy of Material:	Not Available
Sensitizing Capability of Material:	See section 3 None Known

Synergistic Materials:

Not Available

12. ECOLOGICAL INFORMATION

Not Available

13. DISPOSAL CONSIDERATIONS

Waste Disposal: Disposal must be made in accordance with all government regulations.

14. TRANSPORT INFORMATION

T.D.G. Classification: Not T.D.G regulated.

Special Shipping Instructions: None

15. REGULATORY INFORMATION

WHMIS Classification: D2A – Very Toxic material causing other toxic effects
D2B – Toxic material causing other toxic effects

HMIS Ratings: Health 2; Flammability 0; Reactivity 0; Personal Protection X

16. OTHER INFORMATION

ADDITIONAL INFORMATION AND SOURCES USED:

- 1) CCOHS- Canadian Centre for Occupational Health and Safety
- 2) Supplier's MSDS

ND = No Data

N/A= Not Applicable

DATE PREPARED: May 2007

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