



Atlas Clay Mining

(Pty) Ltd reg. no: 2005/036244/07

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MATERIAL SAFETY DATA SHEET

- Occupational Health and Safety Act and Regulations (85/1993)
- General Administrative Regulations

Product: Kingston Clay

Date issued: April 2005

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TESTING COMPANY DETAILS

Name: G&W Base & Industrial Minerals

Contact Person : SHEQ Manager

Address: P O Box 14052
Wadeville, 1422

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1. PRODUCT AND COMPANY IDENTIFICATION:

(Page 1 may be used as an emergency safety sheet).

Trade Name: Kingston Clay

Chemical Family: N/A

Chemical Name: N/A

Synonyms: None

Chemical Abstract no.: 1332-58-7

NIOSH No.: N/A

UN no.: N/A

2. COMPOSITION:

Hazardous components: Kaophile-2

EEC Classification: N/A

R Phrases: N/A

3. HAZARDS IDENTIFICATION

Main Hazard: Caution! Nuisance dust. May cause irritation to respiratory and GI tract

Flammability: Non flammable

Chemical hazard: Not considered to be an explosion hazard

Biological hazard: No known effect

Reproduction hazard: No known effect

Eye effects: No adverse effects expected but dust may cause mechanical irritation

Health effects – skin: No adverse effects expected

Health effects – ingestion: Extremely large oral dosages may produce gastrointestinal disturbances

Health effects – inhalation: Inhalation of dust may cause irritation to the respiratory tract

Carcinogenicity: No known effect

Mutagenicity: No known effect

Neurotoxicity: No known effect

4. FIRST AID MEASURES:

Product in eye: Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists

Product on skin: Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before re-use. Get medical attention if irritation develops

Product ingested: Not expected to require first aid measures

Product inhaled: Remove to fresh air. Get medical attention for any breathing difficulty

5. FIRE FIGHTING MEASURES:

Extinguishing media: Use any means suitable for extinguishing surrounding fire

Special hazards: Not considered to be an explosion or fire hazard

Protective Clothing: Use protective clothing and breathing equipment appropriate for the surrounding fire

6. ACCIDENTAL RELEASE MEASURES:

Personal Precautions: Ventilate area or leak or spill. Wear appropriate personal protective equipment

Environmental precautions: None

Small spills/Large spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal

7. HANDLING AND STORAGE

Suitable material: No data available

Handling/storage precautions: Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids). Observe all warnings and precautions listed for this product

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits:

- OSHA Permissible exposure limit (PEL)
15 mg/m³ (TWA) total particulate
5 mg/m³ (TWA) respirable fraction
- ACGIH Threshold limit value (TLV)
2 mg/m³ for respirable dust, A4 not classifiable as a human carcinogen
- NIOSH recommended exposure limits (REL)
10 mg/m³ (TWA) total particulate
5 mg/m³ (TWA) respirable fraction

Engineering control measures: A system of local and/or general exhaust is recommended to keep employee exposures below the airborne exposure limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

Personal protection – respiratory: If the exposure limit is exceeded, a half-face dust/mist respirator may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator suppliers, whichever is lowest. A full-face piece dust/mist respirator may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator

Personal protection – hand: Wear protective gloves

Personal protection – eye: Safety glasses

Personal protection – skin: Clean body-covering clothing

Other protection: Maintain eye wash fountain and quick-drench facilities in work area

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: Fine pale terracotta

Explosive properties: None

Odour: Odourless

Oxidizing properties: None

pH: 4.5 – 6.5 (slurries)

Vapour pressure: No data available

Boiling point: No data available

Density: 1.8 – 2.6

Melting point: No data available

Solubility – water: Insoluble in water

Flash point: No data available

Solubility – solvent: No data available

Flammability: No data available

Solubility - coefficient : No data available

Autoflammability: No data available

10. STABILITY AND REACTIVITY

Conditions to avoid: No data available

Incompatible materials: No data available

Hazardous decomposition products: None

11. TOXICOLOGICAL INFORMATION

Acute toxicity: No known effect

Chronic toxicity: No known effect

Carcinogenicity: May produce chronic pulmonary fibrosis and stomach granuloma

Mutagenicity: No known effect

Reproductive hazards : No known effect

12. ECOLOGICAL INFORMATION

Aquatic toxicity – fish : No data available

Aquatic toxicity – daphnia: No data available

Aquatic toxicity – algae: No data available

Biodegradability: No data available

Bio-accumulation: No data available

Mobility: N/A

German wgk: N/A

13. DISPOSAL CONSIDERATIONS:

Disposal methods: Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options

Disposal packaging: Dispose of container and unused contents in accordance with local requirements

14. TRANSPORT INFORMATION

UN no: N/A

IMDG - EMS No: N/A

ADR/RID Substance identity no: N/A

IMDG - MFAG table on : N/A

ADR/RID class: N/A

IATA - class : N/A

ADR/RID item no: N/A

IATA - subsidiary risk(s): N/A

ADR/RID hazard identity no: N/A

UK - description: N/A

IMDG - shipping name: N/A

UK emergency action class: N/A

IMDG - class: N/A

UK classification : N/A

IMDG - packaging group: N/A

Tremcard No: N/A

IMDG - marine pollutant: N/A

15. REGULATORY INFORMATION:

EEC hazard classification: No data available

Risk phrases: No data available

Safety phrases : No data available

National Legislation: *OSH Act, National Road Traffic Act (when promulgated)*

16. OTHER INFORMATION:

SELECTED BIBLIOGRAPHY

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2. Data sheets as supplied by various Suppliers and Manufacturers
3. Emergency Response Handbook - Annex A of SABS 0232-3
4. Handling Chemicals Safety, 2nd. Ed. Dutch Association of Safety Experts, Dutch Chemical Industry Association, Dutch Safety Institute, 1980
5. NIOSH Pocket Guide to Chemical Hazards, NIOSH, June 1990
6. Micromedex, Inc. TOMES CPS TM System Vol. 39
7. Patty's Industrial Hygiene Toxicology, 4th ed. Vol. II Part A, George D Clayton, Florence E Clayton
8. SABS 0228, Volume I
9. SABS 0228, Volume II
10. Supplement to NIOSH Manual of Analytical Methods, 3rd ed., NIOSH Publication No 84-100, 1985
11. Toxic & Hazardous Industrial Safety Manual - Industrial Chemicals Safety Manual for Handling and disposal with toxicity and hazard data
12. Toxicity and Metabolism of Industrial Solvents, Ethel Browning M.D. , 1965
13. WinSpirs 2.1 as supplied by the Canadian Centre for Occupational Health and Safety.

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