

MATERIAL SAFETY DATA SHEET

1) Product and Company Identification.

MOLECULAR SIEVE.

GeeJay Chemicals Ltd.

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2) Composition/Information On Ingredients.

Synthetic, crystalline aluminosilicate.

CAS No. : 1318-02-1 EINECS : 215-283-8

Hazardous components : Quartz ca 1%

CAS No. : 14808-60-7 EINECS : 238-878-4

Risk Phrases: NONE Classification/Symbol: NONE

3) Hazards Identification.

The product is very adsorbent and may have a drying effect on skin and eyes. Any dust could be a nuisance. Evolves heat on contact with water.

The product contains about 1% quartz carried over from the mineral binders. At present, EU regulations do not require safety labelling of products containing quartz.

However, quartz has recently been classified by IARC as carcinogenic to humans by inhalation (Group 1). Furthermore, quartz can cause silicosis or other lung diseases on prolonged exposure.

4) First Aid Measures.

1. After inhalation: remove to fresh air.

2. After skin contact: wash with water.

3. After eye contact: flush with water, if irritation persists seek medical advice.

4. After ingestion: give water to drink, seek medical advice.

5) Fire Fighting Measures.

1. Products of combustion: NONE

2. Fire fighting procedures/extinguishing media: not applicable, unused material will not burn. Use media appropriate for surrounding fire.

6) Accidental Release Measures.

1. Personal precautions: respiratory protection if dusty, eye and hand protection.

2. Environmental precautions: NONE

3. Methods for cleaning up: sweep up, avoid raising dust.

7) Handling and Storage.

1. Precautions during handling: avoid raising dust, vacuum up dust sources.

2. Precautions during storage: store in sealed containers in a dry place. Earth container to prevent static electric sparks.

Exposure Controls/Personal Protection.

1. General

Respiratory: effective dust mask when exceeding OEL.

Hand: protective gloves.

Eye: goggles.

Skin: overalls.

2. Exposure limits.

Crystalline aluminosilicate

UK EH40:OES 8 hr. TWA 10mg/m³ total inhalable dust

UK EH40:OES 8 hr. TWA 5mg/m³ respirable dust.

Quartz
UK EH40:MEL 8 hr. TWA 0.3 mg/m³ respirable dust

8) **Physical and Chemical Properties.**

Appearance – off white/brown beads.
Odour – NONE.
pH – 10 to 12.5 as a suspension 100g/l water.
Boiling point/melting point – not applicable.
Flammability/flash point – not applicable.
Solubility – insoluble in water and solvents.

9) **Stability and Reactivity.**

Stability – stable.
Conditions/materials to avoid – evolves heat in contact with water.

10) **Toxicological Information.**

NON TOXIC to humans.

Effects of exposure:

Eyes – dust may cause irritation.
Skin – heat may be evolved, when in contact with water.
Chronic – long term dust effects.
No negative effects were determined during tests for carcinogenity and teratogenicity.

11) **Ecological/Biological Information.**

Crystalline aluminosilicate is chemically and biologically inert. It is not degradable. By its insolubility in water there is a separation at every filtration and sedimentation process.

12) **Disposal Considerations.**

Disposal according to national and local regulations.
Approved landfill.
NOTE: - the used product may have different hazards or properties from the original product and this MSDS may not therefore apply to spent/used products.

13) **Transport Information.**

Not dangerous goods according to the transport regulations of UK Road, RID-ADR, IMO, MARPOL and ICAO.
Not classified as dangerous goods under the United Nations Transport Regulations.

14) **Regulatory Information.**

It is not a dangerous substance according to EC Directive 67/548/EEC (Classification, Packaging and Labelling of Dangerous Substances) as last amended.
It is not classed as a dangerous substance by the Chemicals (Hazard Information and Packaging) Regulations 1999.

15) **Other Information.**

As with any material, general industrial hygiene and housekeeping standards should be observed.

This information is given in good faith and is based on information supplied by manufacturers of the material indicated. The suitability of the product for any particular use is not suggested or implied. The data does not constitute a specification and any properties shown are not guaranteed.

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Date 31/01/2006