

SAFETY DATA SHEET

March 2009

Issue 1

1. Substance Identification.

MOLECULAR SIEVE.

Company Identification:

Hi-line Industries, 5 Crown Industrial Estate, Oxford Street, Burton on Trent, Staffordshire, DE14 3NE, (t) 01283 533377, (f) 01283 533367

The telephone number is available during office hours only.

Use of Substance:

Varied applications in the drying of gases and liquids and the adsorption of other small molecules.

See specific Product Information Sheets on different grades.

2. 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 supplier states:

‘the product contains less than 1% quartz which is part of a natural raw material. 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. It is not expected that the operator will be exposed to free respirable quartz particles in excess of the limits allowed by the worker protection regulations.’

Note: quartz does not appear in the latest EH40 Workplace Exposure Limits.

3. Composition/Information On Ingredients.

Synthetic, crystalline aluminosilicate (zeolite).

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

This product also contains: Quartz (SiO₂) <1%

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

Risk Phrases: NONE

Classification/Symbol: NONE

4. First Aid Measures.

1. After inhalation: remove to fresh air.
2. After skin contact: wash with water.
3. After eye contact: rinse eye for several minutes with running water, if irritation persists seek medical advice.
4. After ingestion: give water to drink, if symptoms persist seek medical advice.

5. Fire Fighting Measures.

1. Products of combustion: not combustible.
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: no special measures required.
3. Methods for cleaning up: sweep up or preferably vacuum up and collect in a suitable container for recovery or disposal. Avoid raising dust.

7. Handling And Storage.

1. Precautions during handling: avoid raising dust, vacuum up dust sources.
2. Precautions during storage: store in tightly sealed containers in a dry place. Earth container to prevent static electric sparks. The product is not flammable.

8. Exposure Controls/Personal Protection.

1. General.

Respiratory: effective dust mask - Filter P2 when exceeding WEL value.

Hand: protective gloves (nitrile), skin protecting agents recommended.

Eye: goggles, safety glasses.

Skin: overalls.

2. Exposure limits.

Crystalline aluminosilicate

UK WEL 10mg/m³ total inhalable dust

UK WEL 4mg/m³ respirable dust.

9. Physical And Chemical Properties.

Appearance: off white/brown beads.

Odour: none.

pH: 7 to 11 as a suspension 100g/l water.

Boiling point/melting point: not applicable, greater than 2000°C.

Flammability/flash point: not flammable or self-igniting.

Solubility: insoluble in water and solvents.

10. Stability And Reactivity.

Stability: stable.

Conditions/materials to avoid: evolves heat in contact with water.

No dangerous reactions or decomposition products known.

11. Toxicological Information.

Effects of exposure.

Eyes: dust may cause irritation.

Skin: heat may be evolved when in contact with water, no sensitization observed.

Chronic: long term dust effects.

No negative effects were determined during tests for carcinogenicity and teratogenicity.

12. 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. It is generally not hazardous for water.

13. 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 SDS may not therefore apply to spent/used products.

14. Transport Information.

Not dangerous goods according to the transport regulations.

Land transport: ADR/RID

Maritime: IMDG

Air: ICAO/IATA

Not classified as dangerous goods under the United Nations Transport Regulations.

15. 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 2008.

16. 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.

NOTE: the used product may have different properties from the original product and this SDS may not therefore apply to the spent/used product.

March 2009