

SAFETY DATA SHEET

February 2009
Issue 1

1. Substance Identification.

SILICA GEL NON-INDICATING. Silicon dioxide.

Company Identification:

GeeJay Chemicals Ltd., 1 Beamish Close, Sandy, Bedfordshire, England, SG19 1SD.
Telephone: 01767 682774 Fax: 01767 699697
The emergency telephone number, 01767 682774, is available during office hours only.

Use of Substance:

A desiccant, to adsorb moisture and prevent corrosion and mould growth.

2. Hazards Identification.

The substance is very adsorbent and may have a drying effect on skin and eyes. Sensitisation of skin and respiratory system is possible. Any dust could be a nuisance. (see Note 2) Evolves heat on contact with water.

3. Composition/Information On Ingredients.

Synthetic amorphous silica. Formula SiO₂
Silica Gel (Silicon Dioxide) >98%
CAS No.: 7631-86-9 EINECS: 231-545-4
Water <2%
Risk Phrases: none. Classification/Symbol: none.

4. First Aid Measures.

1. After inhalation: remove to fresh air. Keep warm and at rest. Obtain medical attention if symptoms develop.
2. After skin contact: wash with water, if skin irritation persists seek medical advice.
3. After eye contact: flush with water, if irritation persists seek medical advice.
4. After ingestion: give water to drink, seek medical advice. Do not induce vomiting.

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: none.
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, Prevent static electric sparks. Spillage of beads may give a slippery surface.
2. Precautions during storage: store in sealed containers in a dry place.

8. Exposure Controls/Personal Protection.

1. General.

Respiratory: effective dust mask.

Hand: protective gloves.

Eye: goggles, safety glasses.

Skin: overalls.

2. Exposure limits.

Amorphous silica

UK-WEL 8 hr. TWA 6 mg/m³ total inhalable dust.

UK-WEL 8 hr. TWA 2.4 mg/m³ respirable dust.

9. Physical And Chemical Properties.

Appearance: white granules/beads.

Odour: none.

pH: 3.5 minimum as a suspension 100g/1 water.

Melting Point: not applicable.

Flammability/flash point: not applicable.

Density: 700 – 750 kg/m³.

Solubility: insoluble in water and solvents.

10. Stability And Reactivity.

Stability: stable.

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

11. Toxicological Information.

Non-toxic.

Acute toxicity (silica, amorphous): oral, LD50 > 15,000 mg/kg, rat.
dermal LD50 > 5,000 mg /kg, rabbit
inhalation LC 50 > 0.139mg 1/14h, rat

Effects of exposure.

Inhalation: amorphous silica has little adverse effect on lungs and does not produce significant disease or toxic effect when exposure is kept below the permitted limits.

Existing medical conditions (e.g. asthma, bronchitis) may be aggravated by exposure to dust.

Eyes: dust may cause irritation.

Skin: heat may be evolved when in contact with water. May have a drying effect.

Carcinogenicity: amorphous silica is not classified as carcinogenic to humans.

12. Ecological/Biological Information.

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

13. Disposal Considerations.

Disposal according to national and local regulations. Approved landfill.

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.

No special packaging requirements. Pack in airtight containers.

15. Regulatory Information.

It is not a dangerous preparation 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 1. This SDS applies to the dry product as supplied. The above criteria may change when it has been used depending on what material has been adsorbed.

Note 2. This SDS applies to both beaded and granular product. The beaded product is considerably less dusty than the granular product and therefore the possibility of inhalation of dust with this is greatly reduced.

REACH considerations. This product has been pre-registered by GeeJay Chemicals Ltd. (05-2114625208-52-0000) according to REACH requirements. Registration is due by May 2013.

This Safety Data Sheet was prepared by G. J. Covington B.Sc, M.R.S.C., C.Chem. a director of GeeJay Chemicals Ltd. e-mail sales@geejaychemicals.co.uk

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