

MATERIAL SAFETY DATA SHEET



AMBICARE INDUSTRIAL • Tratamento de Resíduos S.A.

Emission date 21.01.2013
Reference MSDS/SILICAGEL-SGJ/02

1 Identification of product and supplier

Name of product	SILICA GEL SGJ (self-indicating, ORANGE –COLOURLESS)
Use of Substance	A desiccant, to adsorb moisture and prevent corrosion
Manufacturer	GEEJAY CHEMICALS, LTD
Supplier	AMBICARE INDUSTRIAL, S.A
Phone	+ 351 265 719 830
Fax	+351 265 719 831
E-mail	ambicare@ambicare.com
Emergency telephone number	01767 682774

2 Composition / information on ingredients

Silica Gel (Silicon Dioxide) >93%	Formula SiO ₂
CAS No.: 7631-86-9	EINECS: 231-545-4
Ammonium Iron (III) Sulphate (Ferric Ammonium Sulphate) <5%	
Formula (NH ₄) Fe(SO ₄) ₂	
CAS No: 7783-83-7	EINECS: 233-382-4
Water <2%	
Risk Phrases: none.	Classification/Symbol: none.

3 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.

4 First Aid Measures

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

5 Fire Fighting Measures

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

6 Accidental Release Measures

Personal precautions:	respiratory protection if dusty, eye and hand protection.
Environmental precautions:	none.
Methods for cleaning up:	sweep up or preferably vacuum up and collect in a suitable container for recovery or disposal. Avoid raising dust.

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7 Handling and Storage

Precautions during handling: avoid raising dust, vacuum up dust sources.
Prevent static electric sparks.
Spillage of beads may give a slippery surface.

Precautions during storage: store in sealed containers in a dry place.

8 Exposure Controls/Personal Protection

General

Respiratory: effective dust mask.
Hand: protective gloves.
Eye: goggles, safety glasses.
Skin: overalls.

Exposure limits.

Amorphous silica
UK-WEL 8 hr. TWA OES 6 mg/m³ total inhalable dust.
UK-WEL 8 hr. TWA OES 2,4 mg/m³ respirable dust.

Ammonium Iron (III) Sulphate (as Fe)

UK-WEL 8 hr TWA 1 mg/m³
UK-WEL 15 min STEL 2 mg/m³

9 Physical and Chemical Properties

Appearance: orange granules/beads that turn colourless on adsorption of water.
Odour: none.
pH: 1.5 – 5 at 5% w/w in 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, hygroscopic
Conditions/materials to avoid: evolves heat in contact with water.
Hazardous decomposition products: ammonia, nitrogen oxides, sulphur oxides

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

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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.
Not classified as hazardous waste under EEC Directive 91/689/EEC (and amendments).
Not classified as hazardous waste under Hazardous Waste (England and Wales) Regulations SI 2005 No. 894.
Used product may have different hazards or properties from the original product. This Safety Data Sheet may not therefore apply to spent/used product.

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.

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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) as Silicon Dioxide according to REACH requirements. Registration is due by May 2013. The quantity of the indicating agent (Ammonium Iron (III) Sulphate) present did not come within the regulations.

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

91/155/EEC
