

MSDS Review Date: February 2009

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE **COMPANY/UNDERTAKING**

Product name:

E - SPHERES®

Recommended use:

Lightweight inert filler

Supplier:

Envirospheres Pty Ltd

ABN:

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Appearance:

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European distributor:

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info@envirospheres.com

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2. HAZARDS IDENTIFICATION

The product has no hazard classification according to EC Directive 67/548/EEC (as amended).

The substance may cause temporary physical irritation (by abrasive action) on contact with skin and eyes. Minor irritation of the nose and respiratory tract (following inhalation) or gastric mucosa (following ingestion) are also possible.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Recommended use: Lightweight inert filler.

SL Series, fine white powder, no odour. BL Series, fine grey/tan powder, no odour.

Ingredients: Hollow alumino silicate spheres. The material contains the following inseparable (non-

hazardous) phases:

Chemical Name	EC Number	CAS Number	Proportion
Amorphous alumino silicate	215-475-1	1327-36-2	65 - 80%
Mullite	215-113-2	1302-93-8	25 - 35%
Quartz	238-878-4	14808-60-7	0 - 1%
Calcite	215-279-6	1317-65-3	0 - 1%

Issue Date: 9 February 2009



4. FIRST AID MEASURES

Ingestion: Drink water do not induce vomiting.

Eye contact: Flush continuously with water for 15 minutes, eyelids to be held open, do not rub eyes.

Skin contact: If skin becomes irritated remove clothing, wash areas of contact with soap and water. Using a

skin cream or lotion may be helpful in reducing irritation.

Inhalation: Remove exposed person to fresh air.

Notes to physician: Treat symptomatically for irritant effects.

5. FIRE-FIGHTING MEASURES

Specific hazards: Not flammable and not explosive.

Suitable extinguishing

agents:

Dry powder, carbon-dioxide, foam, or water may be used (as appropriate to the

burning materials) to control fires in the vicinity of E - Spheres.

Extinguishing agent(s)

which must not be used:

None specified.

Known hazards arising

from combustion:

None known, substance not flammable.

Protective equipment

needed by firefighters:

Full protection (suitable clothing and positive pressure, self-contained breathing

apparatus) as appropriate to the burning materials.

6. ACCIDENTAL RELEASE MEASURES

Wear suitable protective clothing: gloves and dust masks.

Shovel up bulk, use vacuum cleaner to clean up residues.

Waste should be placed in containers, plastic bags or other methods which prevent dust emission, and disposed of in accordance with the local waste disposal authority requirements.

7. HANDLING AND STORAGE

Storage: Keep dry. No special storage requirements.

Issue Date: 9 February 2009



8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Standards:

Inhalable dust (not identified as hazardous)

German MAK:

Alveolar Fraction - 3 mg/m³

Respirable Fraction - 10 mg/m³

UK OES (for inhalable dust):

10 mg/m³

ACGIH TLV:

10 mg/m³

(Time-weighted average concentration for a normal eight-hour work day).

Engineering measures: Where possible use local exhaust ventilation.

Personal protection equipment: A half-face (P1 or P2) respirator should be worn during work in poorly ventilated spaces, or where evidence suggests that inspirable dust levels may exceed 10 mg/m³. Where overhead work is involved, goggles and head covering should be worn.

All respiratory devices should be tested for compliance with local standards.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form / Colour / Odour: SL Series, fine white powder, no odour. BL Series, fine grey/tan powder, no odour (do not attempt to detect odour of supplied sample).

Specific Gravity:

0.6 - 0.8g/cc

Melting Point:

1600° - 1800°C

Solubility:

Insoluble in water

Flash Point:

N/A

Boiling Point:

N/A

Flammability Limits:

not flammable

Vapour Pressure:

N/A

N/A = Not applicable

10. STABILITY AND REACTIVITY

Conditions known to cause instability:

None known, not explosive.

Materials to avoid (known incompatibilities):

None known.

Hazardous decomposition products:

None known.



11. TOXICOLOGICAL INFORMATION

Acute Oral toxicity:

Low (LD50 in rats > 2000 mg/kg).

Acute toxicity (other routes):

Not determined.

Irritance/corrosion on the skin:

Not irritating (in rabbit test).

In the eye:

Not irritating (in rabbit test).

Skin sensitisation:

Not determined.

Mutagenicity:

Not determined.

Other available toxicity data:

None available.

Main symptoms:

No adverse health effects expected if the product is handled in accordance with

this Safety Data Sheet and the product label.

Symptoms that may arise if the product is mishandled are:

Irritation:

The substance may cause temporary physical irritation (by abrasive action) by contact to skin and eyes and possibly by inhalation to nose and respiratory tract

and if ingested in sufficient quantities, gastric irritation.

Long Term Effects:

None expected.

E-SPHERES consist of amorphous and poorly crystalline alumino silicates with a very low crystalline silica content. They are inert and do not leach detectable levels of heavy metals. In line with evidence from other naturally occurring non-fibrous alumino silicates, if dust exposures are kept below the exposure standard, no long term health or toxic effects such as pneumoconiosis or cancer are expected.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Toxicity to aquatic life:

Low (Fish 48h NOEC = 700 mg/l, Daphnia 24h EC50 > 140 mg/l,

Algal 72h EC10 > 1400 mg/l).

Other information on ecotoxicity:

Not inhibitory to aquatic microorganisms (NOEC in 16h inhibition test

1200 mg/l).

13. DISPOSAL CONSIDERATIONS

Waste should be placed in containers, plastic bags or other methods which prevent dust emission, and disposed of in accordance with the local waste disposal authority requirements.

Issue Date: 9 February 2009



14. TRANSPORT INFORMATION

Not classified as Dangerous for Transport.

UN-No:

None Allocated

Class:

None Allocated

Hazchem code:

None Allocated

EPG:

None Allocated

Packing group:

None Allocated

15. REGULATORY INFORMATION

The product has no hazard classification according to EC Directive 67/548/EEC (as amended).

This product is not a "toy" as defined in Article 1 of Council Directive 88/378/EEC, EN71.

16. OTHER INFORMATION

This Material Safety Data Sheet conforms to EC Directive 2001/58/EC.

Reference:

Replaces MSDS of December 2004.

Changes have been made to Sections 2, 3, 8 and 15.

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