



MCS/101/01/MSDS Issue 5

#### 1. Product Identification

Name Envirogel Company Brownell Ltd

Address Unit 2, Abbey Road Industrial Park

Commercial Way London, NW10 7XF

Email address info@brownell.co.uk
Telephone number +44 (0) 20 8965 9281
Fax number +44 (0) 20 8965 3239

Emergency Phone +44 (0) 20 8838 8408 - office hours only

Reach number JT211170-39

### 2. Health Hazard Identification

Do not breathe dust or exceed the exposure limits

### 3. Composition / Information on the components

Chemical Description Orange to Green Indicating Silica Gel

Formula SiO<sub>2</sub>

CAS 112926-00-8 amorphous silica 98.2%, activated colouring agent 0.2% max.

### 4. First Aid Measures

Inhalation Remove from source of exposure.

Skin Contact Wash spillage from skin with soap and water.

Eyes Contact Wash immediately with copious amounts of water and obtain

medical attention.

Ingestion Wash out mouth with water. If large amount swallowed or symptoms develop

obtain medical attention.

## 5. Fire Fighting Measures

Extinguishing Media Not applicable. Inorganic compound. Not combustible.

#### 6. Accidental Release Measures

Personal Precautions Do not inhale. Wear appropriate protective clothing. Dust mask essential

if conditions are dusty. See section 8 for exposure limits.

Spillages Contain spillage. Collect in suitable containers for recovery or disposal.

During collection avoid creating dust.

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7. Handling and Storage

Handling Avoid creating any dust. Do not smoke. During handling electrostatic

charges can accumulate (see BS 5958 for advice on the control of static.)

Storage All containers must be closed air tight and kept in a dry place.

8. Exposure Control / Personal Protection

Occupational Exposure Standards:

Synthetic amorphous silica Silica amorphous, total inhalable dust: UK EH40: OES 6mg/m3 8h TWA.

Silica amorphous, respirable dust: UK EH40: OES 2.4mg/m3 8h TWA.

Silica Gel: ACGIH: TLV 10mg/m3 8h TWA. Activation agent: ACGIH: 0.5mg/m3 8h TWA.

Engineering Control Measures Engineering methods to prevent or control exposure are preferred. Methods

include process or personnel enclosure, mechanical ventilation (dilution and

local exhaust), and control of process conditions.

Respiratory Protection Avoid inhalation of dust. Wear suitable respiratory protective equipment if

working in confined spaces with inadequate ventilation or whenever there is

any risk of the exposure limits being exceeded.

Hand Protection Wear protective gloves.

Eyes Protection Wear suitable eye protection.

Protection During Application Handle in well ventilated conditions in accordance with good industrial

hygiene and safety practices.

DNEL / PNEC < 1 = No immediate concern

9. Physical and Chemical Properties

Aspect Beads

Colour Dry: yellow/orange Saturated: Green

Odour Odourless

pH 2-10 at 5% w/w in water

Melting Point (°C) >1000

Boiling Point Not Applicable
Flash Point Not Applicable
Explosion Limits Not Applicable

Bulk Density 720kg per cu meter (**typical**)

Solubility in Water less 1.0% in weight

Thermal Decomposition Stable except when saturated water released during regeneration

10. Stability and Reactivity

Stability Hygroscopic

Conditions to Avoid High temperatures in excess of 155°C

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10. Stability and Reactivity (cont.)

**Hazardous Decomposition** 

Materials to Avoid

None known

Hygroscopic material

11. Toxicological Information

Toxicity The lethal dose for humans for synthetic amorphous silica is estimated at

over 15,000mg/kg.

Health Effects Inhalation Synthetic amorphous silica gel has little adverse effect on lungs and does not

produce significant disease or toxic effect when exposure is kept below the permitted limits. However existing medical conditions (eg asthma, bronchitis) may be aggravated by exposure to dust. Effects of dust may be greater, and occur at lower levels of exposure in smokers compared to non-smokers.

Eye Contact Dust may cause discomfort and mild irritation. Skin Contact Dust may have a drying effect on the skin.

Carcinogenicity Amorphous silica is not classifiable as to its carcinogenicity to humans

(Group 3).

12. Ecological Information

Ecotoxicity Synthetic amorphous silica is virtually inert and has no known adverse

effect on the environment.

13. Disposal

Product Disposal Product can be reactivated in an oven for re-use.

This material is not classified as hazardous waste under EEC Directive

91/689/EEC.

Dispose of in accordance with all applicable local and national regulations. This material is not classified as special waste under UK Special Waste Regulations 1996 and can be disposed of by landfill at an approved site.

14. Transport Information

UN Class Not classified as dangerous goods under the United Nations Transport

Recommendations.

15. Information on Regulation

EC Classification This product is not classified as dangerous.

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#### 15. Information on Regulation (cont.)

S phrases Handle in accordance with good industrial hygiene and safety practices.

Avoid inhalation of dust.

EINECS Listing Preparation – all components listed
TSCA Listing Mixture – all components listed
AICS Listing Mixture – all components listed
DSL/NDSL (Canadian) Listing Mixture – all components listed

#### **Classification:**

Directives 67/548/EEC; 1999/45/EC:

Not Classified as hazardous according to Directives 67/548/EEC; 1999/45/EC.

Regulation (EU) No. 1272/2008:

Not a hazardous substance or mixture according to Regulation (EU) No. 1272/2008.

### **Label: elements:**

Directives 67/548/EEC; 1999/45/EC:

The product does not need to be labelled in accordance with EC-Directives (67/548/EEC; 1999/45/EC).

Regulation (EU) No. 1272/2008:

The product does not need to be labelled in accordance with Regulation (EU) No. 1272/2008.

## 16. Other Information

MSDS first issued

MSDS revision

MSDS Revised

MSDS Revised

MSDS Revised

MSDS Revised

MSDS Revised

10<sup>th</sup> December 2008

11<sup>th</sup> October 2011

MSDS Revised

12<sup>th</sup> May 2014

The information provided in the Material Safety Data Sheet is correct to the best of our knowledge at the date of publication. This document is intended as a guide for safe handling, storage and use in known industrial applications.

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MSDS According to EEC 91/155