

# Material Safety Data Sheet

**UK Safety data sheet according to 91/155/EEC Date / Revised: 07/10/08**

**Version: 2.0.**

**Product: Safetygel™** (30190153/SDS\_GEN\_GB/EN)

Information correct as of Sept 2011

Substance/preparation and company identification:

**Use:** Raw material

**Emergency information:** SafetyGel. PO Box 45. Manchester. M11 1XD. T: 0843 216 6262

**Composition/information on ingredients:**

Chemical nature - sodium polyacrylate, crosslinked

**Hazard identification:**

No particular hazards known.

**First-aid measures General advice:**

Remove contaminated clothing.

**If inhaled:**

If difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention.

**On skin contact:**

Wash thoroughly with soap and water.

**On contact with eyes:**

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

**On ingestion:**

# Material Safety Data Sheet

Rinse mouth and then drink plenty of water.

**Note to physician:**

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

**Fire-fighting Measures**

**Suitable extinguishing media:** water spray, dry extinguishing media, foam

**Unsuitable extinguishing media for safety reasons:** carbon dioxide, water jet

**Additional information:** Avoid whirling up the material/product because of the danger of dust explosion.

**Special protective equipment:** Wear a self-contained breathing apparatus.

**Further information:** Contaminated extinguishing water must be disposed of in accordance with official regulations. The degree of risk is governed by the burning substance and the fire conditions.

**Accidental Release Measures**

**Personal precautions:**

Breathing protection required.

Methods for cleaning up or taking up: For large amounts: Contain with dust binding material and dispose of.

**Handling and Storage**

**Handling**

Handle in accordance with good industrial hygiene and safety practice. Breathing must be protected when large quantities are decanted without local exhaust ventilation. Avoid the formation and deposition of dust.

**Protection against fire and explosion:** The relevant fire protection measures should be noted. Take precautionary measures against static discharges. The product contains combustible polymers.

# Material Safety Data Sheet

## Storage

Further information on storage conditions: Keep container dry because product takes up the humidity of air.

## Exposure controls and personal protection

### Components with workplace control parameters

A safe working level of 0.05 mg/m<sup>3</sup> has been established for respirable superabsorbent polymer dust (< 10 µm diameter) by the German MAK commission.

## Personal protective equipment

**Respiratory protection:** Breathing protection if dusts are formed.

**Hand protection:** Chemical resistant protective gloves (EN 374) nitrile rubber (NBR) - 0.4 mm coating thickness chloroprene rubber (CR) - 0.5 mm coating thickness

**Eye protection:** Safety glasses with side-shields (frame goggles) (EN 166)

### General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended.

## Physical and Chemical Properties

**Form:** granules

**Colour:** white

**Odour:** odourless

**pH value:** approx. 6.0

**Bulk density:** approx. 700 kg/m<sup>3</sup>

**Solubility in water:** insoluble, only capable of swelling (20 °C)

**Hygroscopy:** hygroscopic

# Material Safety Data Sheet

## Stability and Reactivity

**Hazardous reactions:** The product is not a dust explosion risk as supplied; however the build-up of fine dust can lead to a risk of dust explosions. No hazardous decomposition products if stored and handled as prescribed/indicated.

**Toxicological information** LD50/oral/rat: > 2,000 mg/kg LD50/dermal/rat: > 2,000 mg/kg

**Primary skin irritation/rabbit:** non-irritant (OECD Guideline 404)

**Primary irritations of the mucous membrane/rabbit:** non-irritant (OECD Guideline 405)

**Sensitization:** No sensitizing effect.

**Further information:** A chronic (2-year) lifetime inhalation study in rats with respirable superabsorber polymer dust (micronized to < 10 µm diameter) resulted in a non-specific inflammatory response in the lungs followed by tumor development in some rats in the highest chronic exposure level of 0.8 mg/m<sup>3</sup>. In the absence of chronic inflammation, tumours are not expected.

## Additional information:

The statement was derived from products of similar composition.

## Ecological Information

**Ecotoxicity Toxicity to fish:** OECD Guide-line 203 static Brachydanio rerio/LC50 (96 h): > 100 mg/l

**Aquatic invertebrates:** OECD Guideline 202, part 1 static Daphnia magna/EC50 (48 h): > 100 mg/l

**Aquatic plants:** OECD Guideline 201 Desmodemus subspicatus/EC50 (72 h): > 100 mg/l Nominal concentration.

# Material Safety Data Sheet

**Microorganisms/Effect on activated sludge:** The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

**Soil living organisms:** OECD Guideline 207 Eisenia foetida/LC50: > 1,000 mg/kg Persistence and degradability Assessment: The product is not very soluble in water and can thus be removed from water mechanically in suitable effluent treatment plants.

## Additional Information

### Add. remarks environm. fate & pathway:

Due to the consistency of the product, dispersion into the environment is impossible. Therefore no negative effects on the environment may be anticipated based on the present state of knowledge.

**Other ecotoxicological advice:** Do not release untreated into natural waters. The ecotoxic effect of the product has not been tested. The information on this was derived from products of similar structure or composition.

## Disposal Considerations

Must be dumped or incinerated in accordance with local regulations. A waste code in accordance with the European waste catalog (EWC) cannot be specified, due to dependence on the usage. Observe national and local legal requirements. The UK Environmental Protection (Duty of Care) Regulations (EP) and amendments should be noted (United Kingdom).

**Contaminated packaging:** Uncontaminated packaging can be re-used. Packs that cannot be cleaned should be disposed of in the same manner as the contents.

## Transport Information

Not classified as hazardous under transport regulations (ADR RID ADNR IMDG/GGVSee ICAO/IATA)

## Regulatory Information

# Material Safety Data Sheet



Regulations of the European union (Labelling) / National legislation/Regulations Directive 1999/45/EC ('Preparation Directive'): The product does not require a hazard warning label in accordance with EC Directives.

## Other regulations

VDI 2263 'Dust fires and explosions; Danger, Evaluation, Protection measures' The information fulfills the requirements of Directive 1999/45/EC concerning preparations and the associated requirements for 'safety data sheets'. The data should be considered when making any assessment under the Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, for example, 'COSHH Essentials' (United Kingdom).

## Other information

Any other intended applications should be discussed with the manufacturer.

If you have any queries relating to this MSDS, its contents or any other product safety related questions, please write to the following e-mail address: [sales@safetygel.co.uk](mailto:sales@safetygel.co.uk)

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.