



1.IDENTIFICATION OF THE PRODUCT AND THE COMPANY

Product Name: Flosorb 1099

Supplier: Richardsons Helathcare Ltd
Irlam Road, Liverpool.
L20 4EA United kingdom

Telephone Number: +44 (0) 151-922-6511 Fax: +44 (0) 151-944-1426

2. COMPOSITION/INFORMATION ON INGREDIENTS

Identification of the preparation : Sodium Polyacrylate, cross-linked

3. HAZARDS IDENTIFICATION

Do not breathe dust.

4. FIRST AID MEASURES

Skin contact : Wash with soap and water. Remove contaminated clothing.

Eye contact : Rinse thoroughly with plenty of water, also under the eyelids. In case of persistant eye irritation, consult a physician.

Ingestion : If ill effects occur seek medical attention.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : CARBON DIOXIDE (CO₂), CARBON MONOXIDE, DRY POWDER.

Special fire-fighting precautions : No special equipment required.

Special protective equipment for firefighters :

No special protective equipment required.

MATERIAL SAFETY DATA SHEET

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Spilled product in contact with water or moisture causes surfaces to become extremely slippery.

Environmental precautions : Collect and flush small residues with water for treatment via local biological waste treatment plant.

Methods for cleaning up : Clean up promptly by scoop or vacuum. Keep in suitable and closed containers for disposal. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Handling : Use respiratory protection when exceeding limit (see chapter 8) and dust is formed. Ensure sufficient workplace ventilation.

Advice on protection against fire and explosion :

Take measures against electrostatic charge.

Storage : Keep in a dry, cool place (0 - 35°C)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure :

Ventilation. The European Disposables and Non-Wovens Association (EDANA) recommends a workplace limit of 0.05 mg/cbm for inhalable dust of superabsorbent polymer (particle size under 10 microns), based on NOEL (No observed effect level) of the two years inhalation study (see section 11)

Base :

Value :

MAK

0.05mg/m³ / A Kat. 4

Personal protection equipment

- **Respiratory protection :** Use respiratory protection when exceeding limit (see chapter 8) and dust is formed. Ensure sufficient workplace ventilation

- **Hand protection :** Does not apply

- **Eye protection :** Safety glasses with side-shields. Do not wear contact lenses.

- **Skin and body protection :** No special protective clothing required.

- **Hygiene measures :** Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Powder

Particle size : < 10um (>1%)

Colour : White

Flash point (oC) : Not applicable

Melting point (oC): Not applicable

Autoignition temperature (oC) : Not applicable

Vapour pressure (mm Hg) : < 10 hPa @ 20 oC

Bulk density : 0.57 g/cm³

Water solubility : At 20oC. Essentially insoluble.

Viscosity (mPa.s) : Not applicable

10. STABILITY AND REACTIVITY

Stability : Product is stable, no hazardous polymerisation will occur.

Materials to avoid : The product swells in water.

Thermal decomposition products : Thermal decomposition at temperatures > 200oC.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

- **Oral :** LD50 > 5000 mg/kg (Limit Test).

- **Dermal :** LD50 > 2000 mg/Kg (Limit test).

Irritation

- **Skin :** Rabbit Method OECD Nr.404 Not irritative.

- **Eyes :** Rabbit Method OECD Nr.405 Very slight eye irritation, Particle effect.

Sensitisation Result 0/20, Not sensitizing.

Repeated dose toxicity A chronic (2 year) lifetime inhalation study on rats, carried out with micronised dust of a superabosorbent polymer (in order to produce fully inhalable particles) resulted in an unspecified inflammatory reaction in the lungs which caused the formation of tumours in some animals receiving the highest chronically administered concentration (see monitoring of the workplace/protective equipment in section 8). Without chronic inflammation tumours are not to be expected. The study produced a NOEL definition of

0.05 mg/cbm for the micronised dust of superabsorbent polymer.

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12. ECOLOGICAL INFORMATION

Acute aquatic toxicity

- **Fish** LC50 *Leuciscus idus* >5500 mg/l. Exposure time 96 hrs Method OECD Nr.203
LC50 *Brahyania pinnatus* > 4000 mg/l. Exposure time 96 hrs, Method OECD Nr.203

- **Bacterial toxicity** EC50 *Pseudomonas putida* > 6000 mg/l. Exposure time 24 hrs, methods DEV L 8

- **Biodegradability:** Product is easy to eliminate in water treatment plants due to its insolubility Method OECD Nr 302B, practically no degradation.

- **Climate toxicity:** EC50 *Tetrahymena pyriformis* > 6000 mg/l, exposure time 24 hrs.

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products: In accordance with local and national regulations. E.g. in a suitable incineration plant.

Contaminated packaging: In accordance with local and national regulations.

14. TRANSPORT INFORMATION

Remarks : Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

This product is not a hazardous article and need not to be labelled according to EC-Directives as amended.

Inventory status :

EINECS (Europe) Existing polymer according to the definition in the 7th Amendment to Directive 67/548/EEC. All starting materials and additives are listed in EINECS.

TSCA (USA) : Complies with all applicable rules or orders under TSCA.

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16. OTHER INFORMATION

Further information:

This MSDS was prepared in accordance with the following:

Council Directive 92/32/EEC of 30 April 1992 amending for the seventh time Directive 67/548/EEC on the approximation of the laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances and all subsequent adaptations to technical progress.

Directive 1999/45/EC of the European Parliament and of the Council of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations.

Commission Directive 2001/58/EC of 27 July 2001 amending for the second time Directive 91/155/EEC defining and laying down the detailed arrangements for the system of specific information relating to dangerous preparations in implementation of Article 14 of European Parliament and Council Directive 1999/45/EC and relating to dangerous substances in implementation of Article 27 of Council Directive 67/548/EEC (safety data sheets).

ISO 110140-1 : Material Safety Data Sheet for Chemical Product.

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