



MATERIAL SAFETY DATA SHEET (MSDS 00/99/EEC)

CT Zorb Granules

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY :

1.1 Identification of the Preparation:

Granules for the absorption of cytotoxic drug spillage.

1.2 Company Identification:

Guest Medical Limited, Enterprise Way, Edenbridge, Kent TN8 6EW

1.3 Emergency Telephone Number: 01732 867466 / International +44 1732 867466

2. COMPOSITION / INFORMATION ON ACTIVE INGREDIENTS :

Perlite granules plus super absorbent cross-linked sodium polyacrylate mixture.

2.2 Risk Phrases: None

2.3 Classification/symbol: None

3. HAZARDS IDENTIFICATION :

Health Effects

Skin Non-irritant

Eyes Non-irritant

Inhalation Not an inhalation hazard under normal conditions of use.

Ingestion Low toxicity product. It is extremely unlikely that a sufficient quantity would be accidentally swallowed to cause any harm.

Other information Spilled product is slippery underfoot if in contact with water or high humidity.

Physical/

Chemical Effects -

4. FIRST AID MEASURES :

Skin contact Wash with water and soap as precaution.

Eye contact Irrigate the eye with water for 15 minutes. If any irritation persists obtain medical attention.

Inhalation Clear any blocked airways.

Remove affected person to fresh air. If recovery is delayed, seek medical advice.

5. FIRE FIGHTING MEASURES:

5.1 Extinguishing media:

Foam, dry powder, carbon dioxide, in preference to water spray.

5.2	Extinguishing media which must not be used for safety reasons	Not applicable.
5.3	Special exposure hazards	This product does not burn readily, but as with many organic powders, flammable dust clouds may be formed in air. Avoid creating dust and keep away from sources of ignition.
5.4	Special protective equipment for firefighters	As for all fires involving chemicals: chemical protection suit, suitable gloves and boots, and self-contained breathing apparatus
6.	ACCIDENTIAL RELEASE MEASURES :	
6.1	Personal precautions	Use respiratory protection and protective clothing. Ensure adequate ventilation.
6.2	Environmental precautions	Do not flush into surface water or sanitary sewer system.
6.3	Methods for cleaning up	Use a suitable vacuum cleaner to avoid the generation of airborne dust. Sweep up and shovel into suitable containers for disposal. After cleaning flush away traces with water.
7.	HANDLING AND STORAGE :	
7.1	Precautions during handling	Do not eat, drink or smoke whilst handling the product. Remove contaminated clothing immediately and launder before re-use. Avoid formation of respirable particles.
7.2	Precautions during storage	Avoid wet and humid conditions.
8.	EXPOSURE CONTROLS / PERSONAL PROTECTION :	
8.1	Control parameters	The European Disposables and Nonwovens Association (EDANA) recommended Industrial Hygiene Guideline is 0.05 mg/m ³ respirable super absorbent polymer dust (particle size less than 10 microns) based on the NOEL (No Observed Effect Level) of the 2-year inhalation study.
8.2	Engineering measures	Local exhaust ventilation required if dust is created.
8.3	Personal Protection Equipment Respiratory Protection	Effective dust mask (e.g. 3M Dust Respirator:8810). For example, a half or full face mask with a particle filter type P3 (European Standard EN143) should be used if entering a dryer, or if the respirable dust (particle size less than 10 microns) exceeds 0.05 mg m ⁻³
	Hand Protection	Rubber or plastic gloves.
	Eye Protection	Goggles.
	Skin and Body Protection	Lightweight protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Colour	White
Form	Granular solid
Odour	None
pH as supplied	Not applicable
Boiling point /range	Not applicable
Melting point /range	Not applicable
Flash point	Not applicable
Flammability	Not applicable
Autoignition temperature	Not determined
Explosive properties	This product has no explosive properties except in the event of dust formation.
Oxidising properties	Not determined
Vapour pressure	Not applicable
Bulk density	Approximately 0.8g cm ⁻³
Solubility:	
Water Solubility	Insoluble. Swells to form a gel in water.
Partition coefficient (n-octanol/water)	Not applicable
Other data	-

10. STABILITY AND REACTIVITY:

10.1 Stability	Stable at ambient temperature.
10.2 Materials to avoid	Avoid contact with Hydrofluoric Acid.
10.3 Hazardous decomposition products	No decomposition if stored normally.

11. TOXICOLOGY INFORMATION :

Acute toxicity: LD₅₀/oral/rat (Limit test) >5000 mg/kg

Eye irritation: Non-irritant (rabbit)

Dermal irritation/sensitisation: Non-irritant or non-sensitising in human skin tests.

Mutagenicity: Not mutagenic in AMES test

Chronic exposure (inhalation): A chronic (2 year) lifetime inhalation study with micronised

Super absorbent polymer dust (to obtain completely respirable particles) performed on rats

Resulted in a non-specific inflammatory response in the lungs of rats, followed in the highest

Chronic exposure level by tumour development in some animals (see section 8 for Exposure

Controls / Personal protection). In absence of chronic inflammation, tumours not expected.

The study found a definite NOEL (No Observed Effect Level) of 0.05 mg m⁻³ of micronised

Super absorbent polymer dust.

12. ECOLOGICAL INFORMATION:

96hr LC₅₀ (fish), expected to be >100ppm, by analogy to similar products.

13. DISPOSAL CONSIDERATIONS :

Dispose of in accordance with local regulations. In the UK disposal may be made to a licensed treatment/disposal site in accordance with the provisions of "The Environmental Protection Act 1990".

14. TRANSPORT INFORMATION :

UK road/rail	Not classified as dangerous in the meaning of transport regulations
IMDG	Not classified as dangerous in the meaning of transport regulations
ICAO	Not classified as dangerous in the meaning of transport regulations
ADR	Not classified as dangerous in the meaning of transport regulations

15. REGULATORY INFORMATION :

Supply classification:

Hazard symbol(s)	NONE
Risk phrases	NONE
Safety phrases	NONE

16. OTHER INFORMATION :

Product classified and safety data sheet produced according to EEC directives as implemented in the UK by the Chemicals (Hazards Information and Packaging) Regulations.

The information contained herein is based on data considered to be accurate as of the date of preparation of the Material Safety Data Sheet. However, no warranty of representation, expressed or implied, is made as to the accuracy or completeness of the foregoing data and safety information. The user assumes all liability for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.