

January 2006 MSDS

AbsorbeZe Powder



Product Composition:

A white free flowing powder comprised of cross-linked sodium polyacrylate.

Product Types:

Description	Use
5kg AbsorbeZe Powder Tub	For aqueous spillage
1kg AbsorbeZe Powder Tub	For aqueous spillage
250g AbsorbeZe Powder Bottle	For aqueous spillage

Product Disposal after Use

Incinerate or landfill as according to local regulations. For example, in the UK disposal may be made to a licensed treatment/ disposal site in accordance with the provisions of 'The Environmental Protection Act 1990'.

Ecotoxicity: Non toxic to aquatic life.

COMPOSITION/INFORMATION ON INGREDIENTS	
Common Chemical Name	Cross linked polyacrylate absorbent with polyol and water
Synonyms	Superabsorbent polymer with polyol and aqua.
Chemical Family	Polyacrylate
Ingredients contributing to the hazard	N/A
HAZARDS IDENTIFICATION	
Most Important Hazard	This product is not hazardous according to EC criteria however there maybe a slipping hazard if in contact with aqueous fluid.
Risk Phrases	N/A
Safety Phrases	N/A
FIRST AID MEASURES	
Eye Contact	Irrigate the eye with plenty of water for at least 15 minutes. If any irritation persists obtain medical attention.
Skin Contact	Wash the skin with soap and water as a precaution.
Inhalation	If difficulties occur after dust has been inhaled: remove to fresh air and seek medical advice.
Ingestion	Rinse mouth and give plenty of water to drink. If large amounts swallowed get medical help. Never give fluids or induce vomiting if patient is unconscious or is having convulsions.
FIRE FIGHTING MEASURES	
Extinguishing Media	Water fog or fine spray, dry powder and foam.
Unsuitable Extinguishing Media	Carbon dioxide (CO ₂) or water jet - dust explosion hazard.
Hazardous Combustion products	None known. Complete combustion will give carbon dioxide and water.

ACCIDENTAL RELEASE MEASURES	
Personnel Precautions	Wear adequate personal protective equipment - use respiratory protection. Ensure adequate ventilation.
Environmental Precautions	Do not discharge product into natural waters without pre-treatment (biological treatment plant). Avoid dust formation.
Methods for Cleaning Up.	Contain with dust binding material, sweep up and shovel into suitable containers for disposal according to applicable regulations. Spills may cause very slippery surfaces when wet.
HANDLING AND STORAGE	
Handling	A dust mask must be worn. Avoid dust formation as the product contains combustible polymers and fine dust of this product can form explosive mixtures with air and poses a definite fire and explosion hazard at all times; keep away from ignition sources and the relevant fire protection measures thus apply. Take precautionary measures against static discharges.
Storage	Maintain good housekeeping to reduce dust. Containers should be stored tightly sealed in a dry place as the product is hygroscopic. However leave room for expansion in case of contact with aqueous fluids, as the product will swell upon wetting.
EXPOSURE CONTROL / PERSONAL PROTECTION	
Personal Protective Equipment	Safety goggles, clean body-covering clothing, dust mask and protective gloves.
Occupational Exposure Limits	The European Disposables and Nonwovens Association (EDANA) recommended Industrial Hygiene Guideline is 0.05mg/m ³ respirable superabsorbent polymer dust (particle size less than 10 microns) based on a NOEL (No-observed Effect Level of the 2 year inhalation study, see Toxicological Information).

PHYSICAL AND CHEMICAL PROPERTIES	
Appearance	White free-flowing powder
Odour	None
pH	Approximately 6.0 (0.1% in 0.9% NaCl solution)
Solubility in Water	Insoluble but swells to form a gel.
Melting Point °C	Decomposes
Flash Point	>100
STABILITY AND REACTIVITY	
Stability	Stable under normal handling and storage conditions.
Conditions to avoid	Protect against moisture.
Materials to avoid	Acids. Bases. Oxidising agents.
Hazardous Reactions	Dust explosion hazard.
Hazardous Decomposition Products	None provided product is correctly processed.
TOXICOLOGICAL INFORMATION	
Effect of Substance: On eyes	May cause eye irritation and very slight transient (temporary) corneal injury.
On skin	Prolonged or repeated exposure is not likely to cause significant skin irritation and a single prolonged exposure is not likely to result in the material being absorbed through the skin in harmful amounts. The LD50 for skin absorption in rabbits is >2000 mg/kg.
By ingestion	Single dose oral toxicity is considered to be low. The oral LD50 for rats is >2500 mg/kg. No hazards anticipated from swallowing small amounts incidental to normal handling operations.
When inhaled (acute effect)	In the absence of chronic inflammation, tumours are not expected. The study found a NOEL (No-Observed-Effect Level) of 0.05mg/m ³ of micronised superabsorbent polymer dust.

When inhaled (chronic effect)	A chronic (two year) lifetime inhalation study with micronized superabsorbent polymer dust (to get 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 few animals (regarding exposure controls/personnel protection see Exposure Control / Personnel Protection section).
ECOLOGICAL INFORMATION	
<p>The product is not very soluble in water and can thus be virtually removed from water mechanically in suitable effluent treatment plants.</p> <p>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.</p> <p>Ecotoxicity – as far as aquatic life is concerned the product is basically non toxic.</p>	
DISPOSAL CONSIDERATIONS	
Dispose of in accordance with local and national laws and 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’.	
TRANSPORT INFORMATION	
ADR/RID Classification	Not classified as hazardous under transport regulations.
HAZCHEM Code	None
OTHER INFORMATION	
Quality Assurance	ISO 9002
Relevant Approved Codes of Practise	Product classified and safety data sheet produced according to EEC Directives as implemented in the UK by the Chemicals (Hazard Information and Packaging) Regulations 1994.
The information contained in this safety data sheet is given in good faith. It is accurate to the best of our knowledge and belief and represents the most up to date information. The information given in this data sheet does not constitute or replace the users own assessment of workplace risks as required by other health and safety legislation.	

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