



ASTRAL SAFETY DATA SHEET

CLEAN UP KIT - ABSORBENT POWDER

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

PRODUCT NAME: ABSORBENT POWDER
PART No.: CUK100
SUPPLIER: Astral Chemical Solutions Ltd.
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2. COMPOSITION/INFORMATION ON INGREDIENTS

Product Composition A white free flowing powder comprised of cross-linked sodium polyacrylate.
Intended Use: Absorption of aqueous fluids in medical devices and other related healthcare products.
Not for internal use or to be applied to wounds of breached skin.

This material safety data sheet has been compiled based on information supplied by the suppliers of the raw materials.

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

3. 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

4. FIRST AID MEASURES

Eye Contact Irrigate the eye with plenty of water for a 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.

5. FIRE FIGHTING MEASURES

Extinguishing Media Water fog or fine spray, dry powder, foam.
Unsuitable Extinguishing Media Carbon dioxide (CO₂) or water jet – dust explosion hazard.
Hazardous Combustion Products None known. Complete combustion will give carbon dioxide and water.

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6. 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
Method 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.

7. 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.

8. EXPOSURE CONTROLS AND 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)

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	White free-flowing powder.	COLOUR:	White
ODOUR/TASTE:	None	pH	Approximately 6.0 (0.1% in 0.9% NaCl solution)
SOLUBILITY DESCRIPTION:	Insoluble but swells to form a gel.	Melting Point °C	Decomposes
Flash Point	>100		

10. STABILITY AND REACTIVITY

Stability	Stable under normal handling and storage conditions.
Conditions to avoid	Protect against moisture.
Materials to avoid	No special precautions other than good housekeeping of Chemicals.
Hazardous Decomposition Products	Dust explosion hazard.

11. TOXICOLOGICAL INFORMATION

Effect of Substance:	May cause eye irritation and very slight transient (temporary)
On eyes	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 LD ₅₀ for skin absorption in rabbits is >200mg/kg.
By ingestion	Single dose oral toxicity is considered to be low. The oral LD ₅₀ for rats is >2500mg/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 micronised 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 some animals (regarding exposure controls / personnel protection see Exposure Control / Personnel Protection Section)

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12. ECOLOGICAL INFORMATION

The product is not very soluble in water and can thus be virtually removed from water mechanically in suitable effluent treatment plants. 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.
Ecotoxicity – as far as aquatic life is concerned the product is basically non toxic.

13. 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'

14. TRANSPORT INFORMATION

ADR/RID Classification	Not classified as hazardous under transport regulations.
HAZCHEM Code	None

15. OTHER INFORMATION

Quality Assurance	ISO 9002
Relevant Approved Codes of Practice	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
Most Important Hazard	This product is not hazardous according to EC criteria however there may be a slipping hazard if in contact with aqueous fluid
Risk Phrases	N/A
Safety Phrases	N/A

DISCLAIMER

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