Service Requested:
As requested by the applicant, the Safety Data Sheet (SDS) was generated by the submitted information in accordance with OSHA 29 CFR 1910.1200.

Authorized By:
On Behalf Of Regulatory Affairs in Intertek Testing Services Ltd., Shanghai (Suzhou Branch)

Deane You
Regulatory Consultant

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SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME
Super Absorbent Polymer

STATEMENT OF HAZARDOUS NATURE
Not considered a hazardous substance according to OSHA 29 CFR 1910.1200.
Not considered a dangerous mixture according to directive 1999/45/EC and its amendments.
NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. According to NOHSC Criteria, and ADG Code.

NFPA

COMPANY NAME: Reliance Medical Ltd
COMPANY ADDRESS: Radnor Park Trading Estate, Back Lane, Congleton
Cheshire, CW12 4XP, UK
TELEPHONE: +44 (0)8456 448808
EMAIL: sales@reliancemedical.co.uk

PRODUCT USE
Interior decoration, vegetable fertilizer, air freshener.

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

RISK

ACUTE HEALTH EFFECTS

SWALLOWED
• The material has NOT been classified as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. The material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g. liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality (death) rather than those producing morbidity (disease, ill-health). Gastrointestinal tract discomfort may produce nausea and vomiting. In an occupational setting however, unintentional ingestion is not thought to be cause for
Although the material is not thought to be an irritant, direct contact with the eye may cause transient discomfort characterized by tearing or conjunctival redness (as with windburn). Slight abrasive damage may also result. The material may produce foreign body irritation in certain individuals.

The material is not thought to produce adverse health effects or skin irritation following contact (as classified using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.

The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.

Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified using animal models); nevertheless exposure by all routes should be minimized as a matter of course.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

<table>
<thead>
<tr>
<th>NAME</th>
<th>CAS No.</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium polyacrylate</td>
<td>9003-04-7</td>
<td>100</td>
</tr>
</tbody>
</table>

**SECTION 4: FIRST AID MEASURES**

**SWALLOWED**
- Immediately give a glass of water.
- First aid is not generally required. If in doubt, contact a Poisons Information Center or a doctor.

**EYE**
- If this product comes in contact with eyes:
  - Wash out immediately with water.
  - If irritation continues, seek medical attention.
  - Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

**SKIN**
- If skin or hair contact occurs:
  - Flush skin and hair with running water (and soap if available).
  - Seek medical attention in event of irritation.

**INHALED**
- If fumes or combustion products are inhaled, remove from contaminated area.
- Other measures are usually unnecessary.

**NOTES TO PHYSICIAN**
Treat symptomatically.
SECTION 5: FIRE FIGHTING MEASURES

Vapour Pressure (mmHg): Not Available
Upper Explosive Limit (%): Not Available
Specific Gravity (water=1): Not Available
Lower Explosive Limit (%): Not Available

EXTINGUISHING MEDIA
• There is no restriction on the type of extinguisher which may be used.
Use extinguishing media suitable for surrounding area.

FIRE FIGHTING
• Alert Emergency Responders and tell them location and nature of hazard.
• Wear breathing apparatus plus protective gloves for fire only.
• Prevent spillage from entering drains or water course.
• Use fire fighting procedures suitable for surrounding area.
• Do not approach containers suspected to be hot.
• Cool fire exposed containers with water spray from a protected location.
• If safe to do so, remove containers from path of fire.
• Equipment should be thoroughly decontaminated after use.

GENERAL FIRE HAZARDS/HAZARDOUS COMBUSTIBLE PRODUCTS
• Non combustible.
• Not considered to be a significant fire risk, however containers may burn.

SECTION 6: ACCIDENTAL RELEASE MEASURES

MINOR SPILLS
• Clean up all spills immediately.
• Avoid contact with skin and eyes.
• Wear impervious gloves and safety glasses.
• Use dry clean up procedures and avoid generating dust.
• Sweep up or vacuum up (consider explosion-proof machines designed to be grounded during storage and use).
• Place spilled material in clean, dry, sealable, labeled container.

MAJOR SPILLS
• Clear area of personnel and move upwind.
• Alert Emergency Responders and tell them location and nature of hazard.
• Control personal contact by using protective equipment and dust respirator.
• Prevent spillage from entering drains, sewers or water courses.
• Avoid generating dust.
• Sweep, shovel up.
• Recover product wherever possible.
• Put residues in labeled plastic bags or other containers for disposal.
• If contamination of drains or waterways occurs, advise emergency services.

PROTECTIVE ACTIONS FOR SPILL
From US Emergency Response Guide 2000

Guide

**SMALL SPILLS**

<table>
<thead>
<tr>
<th>Name Isolation Distance</th>
<th>Downwind Day</th>
<th>Protection Night</th>
</tr>
</thead>
<tbody>
<tr>
<td>ft (m)</td>
<td>mile (km)</td>
<td>mile (km)</td>
</tr>
</tbody>
</table>

**LARGE SPILLS**

<table>
<thead>
<tr>
<th>Name Isolation Distance</th>
<th>Downwind Day</th>
<th>Protection Night</th>
</tr>
</thead>
<tbody>
<tr>
<td>ft (m)</td>
<td>mile (km)</td>
<td>mile (km)</td>
</tr>
</tbody>
</table>

From IERG (Canada/Australia)

Isolation Distance -

Downwind Protection Distance -

**FOOTNOTES**

1 **PROTECTIVE ACTION ZONE** is defined as the area in which people are at risk of harmful exposure. This zone assumes that random changes in wind direction confines the vapor plume to an area within 30 degrees on either side of the predominant wind direction, resulting in a crosswind protective action distance equal to the downwind protective action distance.

2 **PROTECTIVE ACTIONS** should be initiated to the extent possible, beginning with those closest to the spill and working away from the site in the downwind direction. Within the protective action zone a level of vapor concentration may exist resulting in nearly all unprotected persons becoming incapacitated and unable to take protective action and/or incurring serious or irreversible health effects.

3 **INITIAL ISOLATION ZONE** is determined as an area, including upwind of the incident, within which a high probability of localized wind reversal may expose nearly all persons without appropriate protection to life-threatening concentrations of the material.

4 **SMALL SPILLS** involve a leaking package of 200 litres (55 US gallons) or less, such as a drum (jerrican or box with inner containers). Larger packages leaking less than 200 litres and compressed gas leaking from a small cylinder are also considered "small spills".

**LARGE SPILLS** involve many small leaking packages or a leaking package of greater than 200 litres, such as a cargo tank, portable tank or a "one-tonne" compressed gas cylinder.

5 Guide is taken from the US DOT emergency response guidebook.

6 IERG information is derived from CANUTEC - Transport Canada.
SECTION 7: HANDLING AND STORAGE

PROCEDURE FOR HANDLING
• Limit all unnecessary personal contact.
• Wear protective clothing when risk of exposure occurs.
• Use in a well-ventilated area.
• Avoid contact with incompatible materials.
• When handling, DO NOT eat, drink or smoke.
• Keep containers securely sealed when not in use.
• Avoid physical damage to containers.
• Always wash hands with soap and water after handling.
• Work clothes should be laundered separately.
• Use good occupational work practice.
• Observe manufacturer’s storing and handling recommendations.
• Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.

RECOMMENDED STORAGE METHODS
• Lined metal can, Lined metal pail/drum
• Plastic pail
• Polyliner drum
• Packing as recommended by manufacturer.
• Check all containers are clearly labeled and free from leaks.

STORAGE REQUIREMENTS
• Observe manufacturer’s storing and handling recommendations.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE CONTROLS
The following materials had no OELs on our records
• sodium polyacrylate: CAS:9003-04-7

MATERIAL DATA
SUPER ABSORBENT POLYMER :
Not available

SODIUM POLYACRYLATE:
Not available

PERSONAL PROTECTION

EYE
• Safety glasses with side shields
• Chemical goggles.
• Contact lenses pose a special hazard; soft lenses may absorb irritants and all lenses concentrate them.
OTHER
• No special equipment needed when handling small quantities.
OTHERWISE:
• Overall.
• Barrier cream.
• Eyewash unit.

RESPRATOR

The local concentration of material, quantity and conditions of use determine the type of personal protective equipment required.
Use appropriate NIOSH-certified respirator based on informed professional judgement. In conditions where no reasonable estimate of exposure can be made, assume the exposure is in a concentration IDLH and use NIOSH-certified full face pressure demand SCBA with a minimum service life of 30 minutes, or a combination full facepiece pressure demand SAR with auxiliary self-contained air supply. Respirators provided only for escape from IDLH atmospheres shall be NIOSH-certified for escape from the atmosphere in which they will be used.

ENGINEERING CONTROLS
• Local exhaust ventilation is required where solids are handled as powders or crystals; even when particulates are relatively large, a certain proportion will be powdered by mutual friction.
• If in spite of local exhaust an adverse concentration of the substance in air could occur, respiratory protection should be considered.
Such protection might consist of:
(a): particle dust respirators, if necessary, combined with an absorption cartridge;
(b): filter respirators with absorption cartridge or canister of the right type;
(c): fresh-air hoods or masks

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL PROPERTIES
Granular

State Granular Molecular Weight Not Available
Melting Range (°F) Not Available Viscosity Not Applicable
Boiling Range (°F) Not Available Solubility in water (g/L) Not Available
Flash Point (°F) Not Available pH (1% solution) Not Available
Decomposition Temp (°F) Not Available pH (as supplied) Not Available
Autoignition Temp (°F) Not Available Vapour Pressure (mmHg) Not Available
Upper Explosive Limit (%) Not Available Specific Gravity (water=1) Not Available
Lower Explosive Limit (%) Not Available Relative Vapor Density Not Available
Volatile Component (%vol) Not Available Evaporation Rate Not Available
SECTION 10: CHEMICAL STABILITY

CONDITIONS CONTRIBUTING TO INSTABILITY
• Product is considered stable and hazardous polymerization will not occur.

STORAGE INCOMPATIBILITY
• Avoid contamination of water, foodstuffs, feed or seed.
  None known.

For incompatible materials - refer to Section 7 - Handling and Storage.

SECTION 11: TOXICOLOGICAL INFORMATION

Super Absorbent Polymer

TOXICITY AND IRRITATION
SODIUM POLYACRYLATE:
SUPER ABSORBENT POLYMER:
• None assigned. Refer to individual constituents.

SECTION 12: ECOLOGICAL INFORMATION

No data

Ecotoxicity

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Persistence: Water/Soil</th>
<th>Persistence: Air</th>
<th>Bioaccumulation</th>
<th>Mobility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Polyacrylate</td>
<td>No Data Available</td>
<td>No Data Available</td>
<td>No Data Available</td>
<td>No Data Available</td>
</tr>
</tbody>
</table>

SECTION 13: DISPOAL CONSIDERATIONS

Disposal Instructions
All waste must be handled in accordance with local, state and federal regulations.
• Recycle wherever possible or consult manufacturer for recycling options.
• Consult Waste Management Authority for disposal.
• Bury residue in an authorized landfill.
• Recycle containers where possible, or dispose of in an authorized landfill.

SECTION 14: RANSPORTATION INFORMATION

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS: DOT, IATA, IMDG
SECTION 15: REGULATORY INFORMATION

REGULATIONS


No data for Super Absorbent Polymer (CW: 9-44844)

SECTION 16: OTHER INFORMATION

• Classification of the preparation and its individual components has drawn on official and authoritative sources using available literature references.