

## SAFETY DATA SHEET

Oxysac® – Super Absorbent Polymer



---

### 1. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

**Product Name:** Oxysac®

**Product Type:** Super Absorbent Polymer

**Chemical Name:** Sodium polyacrylate, cross-linked

**Manufacturer / Supplier:**

Protech Group

**Recommended Use:** Absorbent material

**Restrictions on Use:** None known

---

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Component	Concentration	CAS Number
Sodium polyacrylate, cross-linked	100 %	9003-04-7

This product does not contain hazardous components according to applicable regulations.

---

### 3. HAZARDS IDENTIFICATION

**Classification:**

Not classified as hazardous according to applicable regulations.

**Hazard Statement:**

No known hazardous effects under normal conditions of use.

**Other Hazards:**

Fine dust generated during handling may cause mechanical irritation to the respiratory tract.

---

## 4. FIRST AID MEASURES

### **General Advice:**

Remove contaminated clothing and laundry before reuse.

### **Inhalation:**

If dust is inhaled and discomfort occurs, move the affected person to fresh air. Seek medical attention if symptoms persist.

### **Skin Contact:**

Wash thoroughly with soap and water.

### **Eye Contact:**

Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Seek medical attention if irritation persists.

### **Ingestion:**

Rinse mouth thoroughly. Drink plenty of water or normal saline. Do not induce vomiting.

### **Information for Physicians:**

Treat symptomatically. No specific antidote is known.

---

## 5. FIRE-FIGHTING MEASURES

### **Suitable Extinguishing Media:**

Water, carbon dioxide (CO<sub>2</sub>), foam.

### **Specific Hazards:**

Avoid dispersing dust clouds during fire-fighting operations.

### **Protective Equipment for Fire-Fighters:**

Wear self-contained breathing apparatus and protective clothing.

### **Additional Information:**

Contaminated fire-fighting water must be disposed of in accordance with local regulations. Fire risk depends on surrounding materials and fire conditions.

---

## 6. ACCIDENTAL RELEASE MEASURES

### **Personal Precautions:**

Avoid breathing dust. Use appropriate respiratory protection.

**Environmental Precautions:**

Prevent release into waterways.

**Methods for Cleaning Up:**

For large spills, contain material using dust-binding agents and collect mechanically for disposal in accordance with regulations.

---

## 7. HANDLING AND STORAGE

**Handling**

- Handle in accordance with good industrial hygiene and safety practices.
- Avoid the formation and accumulation of dust.
- Provide local exhaust ventilation when handling large quantities.
- Take precautions against static discharge.

**Storage**

- Store in a dry place.
  - Keep containers tightly closed to prevent moisture absorption.
  - Protect from humidity.
- 

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Occupational Exposure Limits:**

A safe working level of **0.05 mg/m<sup>3</sup>** has been established for breathable superabsorbent polymer dust, in accordance with industry standards.

**Personal Protective Equipment****Respiratory Protection:**

Use respiratory protection when dust is generated.

**Hand Protection:**

Chemical-resistant protective gloves (EN 374):

- Nitrile rubber (NBR), 0.4 mm
- Chloroprene rubber (CR), 0.5 mm

**Eye Protection:**

Safety glasses with side shields or frame goggles (EN 166).

**Skin Protection:**

Closed work clothing is recommended.

**General Hygiene Measures:**

Observe good industrial hygiene practices. Wash hands after handling.

---

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Property	Value
Physical state	Granules
Color	White
Odor	Odorless
pH	Approx. 6.2
Bulk density	Approx. 700 kg/m <sup>3</sup>
Solubility in water	Insoluble; swells only (22 °C)

---

**10. STABILITY AND REACTIVITY****Reactivity:**

Stable under normal conditions.

**Chemical Stability:**

Stable when stored and handled as recommended.

**Possibility of Hazardous Reactions:**

No hazardous reactions known. Fine dust accumulation may present a dust hazard.

**Hazardous Decomposition Products:**

None known.

---

**11. TOXICOLOGICAL INFORMATION**

**Acute Toxicity:**

- LD<sub>50</sub> (dermal, rat): > 2,020 mg/kg

**Skin Irritation:**

Non-irritant (based on data from similar products).

**Eye / Mucous Membrane Irritation:**

Non-irritant (based on data from similar products).

**Sensitization:**

No sensitizing effects observed.

**Additional Information:**

Toxicological data derived from products of similar composition.

---

**12. ECOLOGICAL INFORMATION****Ecotoxicity:**

Not tested. Information derived from similar materials.

**Mobility:**

Not readily soluble in water; can be mechanically removed in wastewater treatment facilities.

**Persistence and Degradability:**

No adverse environmental effects anticipated based on current knowledge.

**Environmental Precautions:**

Do not release untreated product into natural waters.

---

**13. DISPOSAL CONSIDERATIONS****Product Disposal:**

Dispose of or incinerate in accordance with local, regional, and national regulations.

**Packaging Disposal:**

- Clean packaging may be reused.
  - Contaminated packaging should be disposed of in the same manner as the product.
-

## 14. TRANSPORT INFORMATION

**UN Number:** Not applicable

**Proper Shipping Name:** Not regulated

**Transport Hazard Class:** None

**Packing Group:** None

**ADR / RID:** Not regulated

**IATA / IMDG:** Not regulated

---

## 15. REGULATORY INFORMATION

**Hazard Symbols:** None

**Signal Word:** None

**Risk Phrases:** None

**Safety Phrases:** None

This product is not classified as hazardous under applicable chemical safety regulations.

---

## 16. OTHER INFORMATION

### **Recommended Use:**

Any application other than the intended use should be discussed with the manufacturer.

### **Disclaimer**

The information provided in this Safety Data Sheet is based on current knowledge and is intended to comply with Directive 91/155/EEC. It is offered as guidance for safe handling and use of the product and does not constitute a technical specification or warranty.