



MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY

Identification of the product: Super Absorbent Polymer

Company: Protech Oxyplast Group

2. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Nature: Sodium Polyacrylate, cross-linked, 100%

CAS Number: 9003-04-7

3. HAZARDS IDENTIFICATION

No hazardous effects known.

4. FIRST AID MEASURES

Remove contaminated clothing and launder before re-use.

In case of inhalation: If difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention.

In case of contact with skin: Wash thoroughly with soap and water.

In case of ingestion: Rinse mouth and drink plenty of normal saline.

Note to physician:

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:

Water, carbon dioxide, foam fire – extinguisher

Additional information: Avoid whirling up the material.

Special protective equipment: wear a self-contained breathing apparatus.

Further information: Contaminated extinguishing water must be disposed of in accordance with local regulations. The degree of risk is governed by the burning substance and the fire conditions.

6. ACCIDENTAL RELEASE MEASURES

Personal precaution: Breathing protection required

Methods for cleaning up or picking up:

For large amounts: Contain with dust binding material and dispose of.

7. HANDLING AND STORAGE

Handling:

Handle in accordance with good industrial hygiene and safety practice.

Breathing must be protected when large quantities are decanted without local exhaust ventilation. Avoid the formation and deposition of dust.

Protection against fire: The relevant fire protection measures should be noted. Take precautionary measures against static discharges.

Storage:

Further information on storage conditions: Keep container dry because product takes up the humidity of the air.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters

A safe working level of $0.05\text{mg}/\text{m}^3$ has been established for breathable superabsorbent polymer.

Dust in accordance with international industry standards.

Personal protective equipment:

Respiratory protection:

Breathing protection if dusts are formed.

Hand protection:

Chemical resistant protective gloves (EN 374)

Nitrile rubber (NBR) – 0.4 mm coating thickness

Chloroprene rubber (CR) – 0.5 mm coating thickness

Eye protection:

Safety glasses with side-shields (frame goggles) (EN 166)

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Granules

Color: White

Odor: Odorless

PH value: Approx. 6.2

Bulk density: Approx. $700\text{kg}/\text{m}^3$

Solubility in water: Insoluble, only capable of swelling (22 °C)

10. STABILITY AND REACTIVITY

Hazardous reactions :

The product has no dust explosion risk as supplied. However, the build-up of fine dust can lead to a risk.

No hazardous decomposition products if stored and handled as prescribed/ indicated.

11. TOXICOLOGICAL INFORMATION

LD50/dermal/rat : > 2.020 mg/kg

Primary skin irritation/mouse : non-irritant (Center for Disease Control and Prevention)

Primary irritation of the mucous membrane/mouse: non-irritant (Center for Disease Control and Prevention)

Sensitization: No sensitizing effect.

Additional information: The statement was derived from products of similar composition.

12. ECOLOGICAL INFORMATION

The product is not very soluble in water and can be removed from water mechanically in suitable effluent treatment plts.

Additional remarks, fate and pathway:

Due to 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.

Other ecotoxicological advice:

Do not release untreated into nature waters. The ecotoxicological effect of the product has not been tested. The information on this was derived from products of similar structure or composition.

13. DISPOSAL CONSIDERATION

Must be dumped or incinerated in accordance with local regulations.

Observe national and local legal requirements.

Contaminated packaging:

Uncontaminated packs can be re-used.

Packs that cannot be cleaned should be disposed of in the same manner as the contents.



14. TRANSPORT INFORMATION

Proper shipping name: not applicable

UN Number: None

Hazard Class: None

Symbol: None

Packing Group: None

ADR/RID: None

IATA/DGR limits: None

15. REGULATORY INFORMATION

Warning symbols: None

Warning words: None

Risk phrases: None

Safety Phrases: None

16. OTHER INFORMATION

Any other intended applications should be discussed with the manufacturer.

DISCLAIMER

The information is intended to conform with the requirements of Directive 91/155/EEC and to serve as a guide to the safe handling of the product mentioned. It is based on our current state of knowledge and typical values are quoted. However, it should not be construed as a Technical Specification or Warranty for the product.