

# MATERIAL SAFETY DATA SHEET

## ABSORBER

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

**Product Name:** Absorber

**Company:** Manufactured in the EU for Organix Limited.  
eco@organix-agro.com

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

**Identification of the preparation:** Superabsorbent polyacrylamide.

### 3. HAZARDS IDENTIFICATION

The product when wet renders surfaces extremely slippery.  
The product swells in water.

### 4. FIRST AID MEASURES

**Inhalation:** Move to fresh air. No hazards which require special first aid measures.

**Skin contact:** Wash off with soap and plenty of water. Get medical attention if irritation develops and persists.

**Eye Contact:** Rinse thoroughly with plenty of water, also under the eyelids. In case of persistent eye irritation, consult a physician.

**Ingestion:** Rinse mouth with water. Do NOT induce vomiting. Get medical attention.

### 5. FIRE FIGHTING MEASURES

**Suitable extinguishing media:** water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Hazardous decomposition products:** Thermal decomposition may produce nitrogen (NO<sub>x</sub>), carbon oxides (CO<sub>x</sub>). Hydrogen cyanide (hydrocyanic acid) may be produced in the event of combustion in an oxygen deficient atmosphere.

**Fire extinguishing agents to avoid:** None

**Special fire-fighting precautions:** The product when wet renders surfaces extremely slippery.  
The product swells in water.

**Special protective equipment for fire fighters:** Wear self-contained breathing apparatus and protective suit.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** The product swells in water. The product when wet renders surfaces extremely slippery.

**Emergency procedures:** Keep people away from spill/leak.

**Environmental precautions:** As with all chemical products, do not flush into surface water.

### Methods for cleaning up:

**Small and large spills:** Clean up promptly by sweeping or vacuum. Keep in suitable and closed containers for disposal.

**Residues:** After cleaning flush away traces with water.

## 7. HANDLING AND STORAGE

**Handling:** Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust. Wash hands before breaks and at the end of workday.

**Storage:** Keep in a cool, dry place (0-35 degrees C). Keep container closed when not in use. Incompatible with strong acids and oxidizing agents.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Measures to reduce exposure:** Use local exhaust if dusting occurs. Natural ventilation is adequate in absence of dusts.

### **Personal protective equipment:**

**Respiratory protection:** No personal respiratory protective equipment normally required.

**Hand protection:** PVC or other plastic material gloves.

**Eye/face protection:** Safety glasses with side-shields.

**Skin and body protection:** Work clothes protecting arms, legs and body.

**Hygiene measures:** Wash hands before breaks and at the end of workday. Handle in accordance with good industrial hygiene and safety practice.

**Additional advice:** Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls:** Do not allow uncontrolled discharge of product into the environment.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form:</b>	Granular solid
<b>Colour:</b>	white
<b>PH:</b>	5-8@5g/L
<b>Melting point (°C):</b>	>150°C
<b>Initial boiling point and boiling range:</b>	not applicable
<b>Flash point (°C):</b>	not applicable
<b>Evaporation rate / Flammability (solid, gas):</b>	not applicable
<b>Upper/lower flammability or explosive limits:</b>	Not expected to create explosive atmospheres.
<b>Autoignition temperature (°C):</b>	does not self-ignite (based on the chemical structure).
<b>Vapour pressure and density (mm Hg):</b>	not applicable
<b>Relative density:</b>	0.6-0.9
<b>Water solubility:</b>	Insoluble in water
<b>Partition coefficient:</b>	-2
<b>Viscosity (mPa.s):</b>	See Technical Bulletin.

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Product is stable, no hazardous polymerization will occur.
<b>Possibility of hazardous reactions:</b>	Oxidizing agents may cause exothermic reactions.
<b>Conditions to avoid:</b>	No special precautions required.
<b>Materials to avoid:</b>	Incompatible with strong acids and oxidizing agents.
<b>Hazardous decomposition products:</b>	Thermal decomposition may produce: hydrogen cyanide (hydrocyanic acid), nitrogen oxides (NO <sub>x</sub> ), carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

<b>Acute toxicity</b>	
<b>Oral:</b>	Not toxic : LD50/oral/rat > 5000 mg/kg
<b>Dermal:</b>	Not toxic : LD50/dermal/rat > 5000 mg/kg
<b>Inhalation:</b>	The product is not expected to be toxic by inhalation.
<b>Irritation</b>	
<b>Skin:</b>	Not irritating.
<b>Eyes:</b>	Not irritating.
<b>Sensitization:</b>	Not sensitizing.
<b>Mutagenicity:</b>	Not mutagenic.
<b>Carcinogenicity:</b>	Not carcinogenic.
<b>Reproductive toxicity:</b>	Not toxic for reproduction.
<b>STOT – single exposure:</b>	No known effects.
<b>STOT – repeated exposure:</b>	No known effects.
<b>Aspiration hazard:</b>	No hazards resulting from the material as supplied.

## 12. ECOLOGICAL INFORMATION

<b>Acute aquatic toxicity:</b>	
<b>Fish:</b>	LC50/Danio rerio/96 hours > 100mg/L (OECD 203) LC50/Oncorhynchus mykiss/96 hours > 100 mg/l (OECD 203)
<b>Daphnids:</b>	EC50 Daphnia magna/48 hours > 100 mg/L (OECD 202)
<b>Algae:</b>	IC50/Scenedesmus subspicatus/72 hours > 100mg/L (OECD 201)
<b>Persistence and degradability:</b>	
<b>Hydrolysis:</b>	Does not hydrolyze.
<b>Degradation:</b>	Not readily biodegradable.
<b>Photolysis:</b>	No data available.

**Bioaccumulative potential:**

Not bioaccumulating.  
Partition coefficient (Log Pow): -2  
Bioconcentration factor (BCF): No data available

**13. DISPOSAL CONSIDERATIONS**

**Waste from residues / unused products:** In accordance with local and national regulations. Can be landfilled or incinerated, when in compliance with local regulations.

**Contaminated packaging:** In accordance with local and national regulations. Can be landfilled or incinerated, when in compliance with local regulations.

**Recycling:** The product and its packaging are not suitable for recycling.

**14. TRANSPORT INFORMATION**

**Remarks:** Not classified as dangerous in the meaning of transport regulations.

**15. REGULATORY INFORMATION**

This product is not classified as dangerous and need not to be labelled according to the EC-Directives as amended.

**Inventory status:**

**EINECS (Europe):** Existing polymer according to the definition in the 7<sup>th</sup> Amendment to Directive  
**67/548/EEC.** All starting materials and additives are listed in EINECS.  
**TSCA (USA):** All components of this product are either listed on the inventory or are exempt from listing.

**16. OTHER INFORMATION**

**Further information:** The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.