

# Material Safety Data Sheet

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

**Product name :** **Accepta 4350**  
**Company :** Accepta Limited  
Statham House, Talbot Road,  
Manchester M32 0FP  
England, UK  
**Telephone :** 0161 877 2334 0870  
**Telefax :** 135 6389  
**E-mail :** [info@accepta.com](mailto:info@accepta.com)

**Emergency telephone number :** 0161 877 2334

**Product Use :** Processing aid for industrial applications.

## 2. HAZARDS IDENTIFICATION

### Hazard Identification

Spills produce extremely slippery surfaces. Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Identification :** Cationic polymer in solution.

Chemical Name	CAS-No.:	EC-No.:	Classification :	Weight %
Copolymer of Epichlorohydrine and Dimethylamine	25988-97-0	Polymer	R52/53	25-75

The wording of the hazard symbols and Risk phrases is specified in section 16 if dangerous ingredients are mentioned

## 4. FIRST AID MEASURES

**Inhalation :** No hazards which require special first aid measures.

**Skin contact :** Wash with water and soap as a precaution. In case of persistent skin irritation, consult a physician.

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

**Ingestion :** No hazards which require special first aid measures.

## 5. FIRE-FIGHTING MEASURES

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**Suitable extinguishing media :** Water. Water spray. Foam. Carbon dioxide (CO<sub>2</sub>). Dry powder.

**Precautions :** Spills produce extremely slippery surfaces.

**Special protective equipment for firefighters :** No special protective equipment required.

## 6. ACCIDENTAL RELEASE MEASURES

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**Personal precautions :** No special precautions required.

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

**Methods for cleaning up :** Do not flush with water . Dam up. Soak up with inert absorbent material. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum. Keep in suitable, closed containers for disposal. After cleaning, flush away traces with water.

## 7. HANDLING AND STORAGE

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### Handling

**Safe handling advice :** Avoid contact with skin and eyes. When preparing the working solution ensure that there is adequate ventilation. When using do not smoke.

### Storage

Keep in a dry cool place (0 - 30 °C). Keep away from heat and sources of ignition. Freezing will affect the physical condition and may damage the material.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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### Engineering measures

Use local exhaust if misting occurs. Natural ventilation is adequate in absence of mists.

### Personal protective equipment

**Respiratory protection :** In case of insufficient ventilation wear suitable respiratory equipment.

**Hand protection :** Rubber gloves.

**Eye protection :** Safety glasses with side-shields. Do not wear contact lenses where this product is used.

**Skin and body protection :** Chemical resistant apron or protective suit if spashing or repeated contact with solution is likely.

### Hygiene measures

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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**Form :** Liquid

**Color :** Colorless to pale yellow

**pH :** 4-7

**Specific Gravity :** 1.12 - 1.16

**Flash point :** > 100 (°C)

**Freezing point (°C) :** - 3

**Autoignition temperature :** > 200 (°C)

**Water solubility :** Completely miscible

**LogPow :** 0

## 10. STABILITY AND REACTIVITY

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**Stability :** Stable. Hazardous polymerisation does not occur.

**Materials to avoid :** Oxidizing agents may cause exothermic reactions.

**Hazardous decomposition products :** No decomposition if stored and applied as directed. Burning of the dried material can produce: hydrogen chloride gas, nitrogen oxides (NOx), carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

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### Acute toxicity

**Oral :** LD50/oral/rat = 2000 mg/kg. (estimated).

**Skin :** LD50/dermal/rat = 2000 mg/kg. (estimated).

**Inhalation :** The product is not expected to be toxic by inhalation.

### Irritation

**Skin :** Testing conducted on rabbits according to the Draize technique showed the material to be mildly irritating to the skin.

**Eyes :** Testing conducted according to the Draize technique showed the material produces no corneal or iridial effects and only slight transitory conjunctival effects similar to those which all granular materials have on conjunctivae.

**Sensitization :** The product is not expected to be sensitizing.

**Chronic toxicity :** NOEL/oral/rat/90 days = 2000 mg/kg/day

### Other information

Not mutagenic in AMES Test. Not mutagenic in micronucleus test on mice.

## 12. ECOLOGICAL INFORMATION

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### Aquatic toxicity

Aquatic toxicity

**Toxicity to fish :** LC50/Danio rerio/96 hours > 10 mg/l (OECD 203).

**Toxicity to daphnia :** EC50/Daphnia magna/48 hours > 10 mg/l (OECD 202).

**Toxicity to algae :** Algal inhibition tests are not appropriate. The flocculation characteristics of the product interfere directly in the test medium preventing homogenous distribution which invalidates the test.

### Environmental fate

**Persistence and degradability :** Not readily biodegradable.

**Hydrolysis :** Does not hydrolyse.

**LogPow :** 0

**Bioaccumulation :** Does not bioaccumulate.

### **Other ecological information :**

The effects of this product on aquatic organisms are rapidly and significantly mitigated by the presence of dissolved organic carbon in the aquatic environment.

## 13. DISPOSAL CONSIDERATIONS

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**Waste from residues / unused products :** In accordance with local, state and federal regulations.

**Contaminated packaging :** Rinse empty containers with water and use the rinse-water to prepare the working solution. Can be landfilled or incinerated, when in compliance with local regulations.

## 14. TRANSPORT INFORMATION

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

## **15. REGULATORY INFORMATION**

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### **Classification and Labelling**

The product is classified and labelled in accordance with EC directives or respective national laws.

#### **Risk-phrase(s) :**

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### **Safety-phrase(s) :**

S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.

### **International Inventories**

**European Union (EINECS/ELINCS) :** Existing polymer according to the definition in the 7th Amendment to Directive 67/548/EEC. All starting materials and additives are listed in EINECS.

**USA (TSCA) :** All components of this product are either listed on the inventory or are exempt from listing.

**Canada (DSL) :** All components of this product are either listed on the inventory or are exempt from listing.

**Australia (AICS) :** All components of this product are either listed on the inventory or are exempt from listing.

**Korea (ECL) :** All components of this product are either listed on the inventory or are exempt from listing.

## **16. OTHER INFORMATION**

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### **Further information**

Full text of hazard symbols and R-phrases if mentioned as hazardous components in chapter 3 :

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

This MSDS was prepared in accordance with the following:

Regulation (EC) N° 1907/2006

ISO 11014-1: Material Safety Data Sheet for Chemical Products

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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 a 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