

## SAFETY DATA SHEET

**PRODUCT NAME: Accepta 8312**

### 1. Chemical product and company identification

Product Name : Accepta 8312  
 Chemical Name : Polyaluminium silicate sulphate solution  
 Product type and use : Coagulant for water treatment and paper processing  
 Company identification : Accepta Ltd  
 Address and telephone number : Statham House, Talbot Road, Old Trafford,  
 Manchester M32 0FP  
 : +44 (0) 161 877 2334  
 Emergency telephone number : +44 (0) 161 877 2334

### 2. Composition/information on ingredients

Chemical name	CAS No.	Content (%)	Symbol	R-phrases(s)	Safety Phrase(s)
Polyaluminium silicate sulphate	53810-32-5	~ 8 - 10 (Al <sub>2</sub> O <sub>3</sub> )	Xi	R36/37/38	S26, S28, S37, S39

### 3. Hazards identification

Main risks : May cause irritation to skin and mucous membranes  
 Inhalation : May cause irritation  
 Skin contact : May cause skin irritation, e.g. redness, eczema  
 Contact with eyes : May cause irritation  
 Ingestion : May cause sickness and vomiting  
 Environmental risks : The product can hydrolyse and form a precipitate of aluminium hydroxide when diluted beyond a particular level. The solubility of the product is dependant on the pH value.

### 4. First-aid measures

Inhalation : Remove from source of contamination to fresh air  
 Skin contact : Wash skin with plenty of water  
 Contact with eyes : Flush with plenty of water for 15 minutes  
 Ingestion : Flush with water, then give water to drink. Call a physician

### 5. Fire-Fighting measures

Extinguishing media  
 - Suitable : Will not burn, use media appropriate for surrounding material  
 - Not suitable : None  
 Specific hazards : May liberate Sulphur oxides and Aluminium oxides when boiled to dryness or heated above 200°C.  
 Specific protection of firefighters : Use suitable safety equipment

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## **6. Accidental release measures**

- |                           |  |
|---------------------------|--|
| Personal precautions      | : Use appropriate protective clothing (See Section 8)  |
| Environmental precautions | : Do not let product enter drains, use suitable absorbing granules and sweep up.   |
| Methods for cleaning up   |  |
| - on ground               | : Flush with plenty of water, if possible neutralise with lime or sodium carbonate (this produces carbon dioxide so ventilation equipment is advised). |
| - on water                | : Inform police and/or fire brigade and appropriate local authority  |

## **7. Handling and storage**

- |                               |  |
|-------------------------------|--|
| Storage conditions            | : Containers can be stainless steel, rubber lined mild steel or plastic tanks. Store between 0-30°C. |
| Storage stability             | : Approx. 3-6 months   |
| Technical protective measures | : Handle in accordance with good industrial hygiene and safety practice                              |

## **8. Exposure controls/personal protection**

- |   |   |
|---|---|
| Engineering measures to reduce Exposure | : When handling, the working area and methods should be designed to prevent direct contact with the product and inhibit spray and/or splash |
| Personal protective equipment           |   |
| - Inhalation                            | : Avoid formation of mists  |
| - Skin                                  | : Protective clothing, rubber or plastic gloves   |
| - Eye protection                        | : Safety glasses with side-shields or chemical goggles. Equipment for eye rinsing   |
| OEL                                     | : 2 mg Al/m <sup>3</sup> (8 hour TWA)   |

## **9. Physical and chemical properties**

- |                                  |   |
|----------------------------------|---|
| Form                             | : Colourless liquid                         |
| Odour                            | : Insignificant                             |
| pH                               | : Approx. 2.8-3.8 in concentrated solution. |
| Boiling temperature (°C)         | : 90  |
| Melting/decomposition temp (°C)  | : N/A                                       |
| Density (kg/m <sup>3</sup> )     | : 1280-1350                                 |
| Solubility in water (weight - %) | : Complete at 20°C. Hydrolyses.             |
| Solubility in organic solvents   | : None                                      |

## **10. Stability and reactivity**

- |                                  |   |
|----------------------------------|---|
| Conditions to avoid              | : Avoid contact with strong mineral acids, excessive heat, and bases or alkalis   |
| Materials to avoid               | : Unalloyed steel, galvanised or aluminium surfaces. Avoid contact with strong alkali, oxidisers and materials such as Oleum. |
| Hazardous decomposition Products | : May liberate Sulphur oxides and Aluminium oxides when boiled to dryness or heated above 200°C.                              |

## **11. Toxicological information**

- |  |                |
|--|----------------|
| Oral LD <sub>50</sub> , rat (mg/kg)              | : > 5000 mg/kg |
| Intraperitoneal LD <sub>50</sub> , mouse (mg/kg) | : 6207 mg/kg   |
- Dust and/or splash irritates mucous membranes, eyes and respiratory organs.

## **12. Ecological information**

Experiments with the product at various concentrations shows it to be innocuous to aquatic life in dosages upto 200mg/l (as product). This limit was determined using carassius auratus for the test. At higher doses the toxic is attributable to the acidity of the medium. There is no tendency for this material to bioaccumulate. The product is an inorganic substance/preparation. During hydrolysis, a precipitate is formed of metal hydroxide in the pH in the water phase decreases. If phosphates are present, metal phosphate complex may form.

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## **13. Disposal considerations**

Waste from product residues : Dilute with water, neutralise with lime or sodium carbonate use absorbing granules and sweep up. Any residues or rinse waters may be hazardous waste and need neutralising, absorbing and sweeping up.  
: Suitable dumping to local regulations

Waste from contaminated packaging : Local regulations apply

## **14. Transport information**

Transport warning label : 8  
Packing Group : III  
ADR/RID : Class 8  
IMO-IMDG code : Class 8  
IATA : Class 8  
UN No. : 3264 (Corrosive Liquid, Acidic, Inorganic, N.O.S.)

## **15. Regulatory information**

Labelling according to EU directives  
- Danger symbol(s) : Xi (Irritant)  
- Risk phrase(s) : R36/37/38 Irritating to eyes, respiratory system and skin.

- Safety phrase(s) : S26 In the event of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
: S28 After contact with skin, wash immediately with plenty of water

: S37, S39 Wear suitable gloves made of plastic or rubber and wear eye/face protection.

EINECS No. : 258-792-0  
CAS No. : 53810-32-5

## **16. Other information**

References : 1) Gower Handbook of Water Treatment Chemicals (1996)

**Revised: 24.06.05**

**Replace: 16.07.01**

**Issue: 4**