

## SAFETY DATA SHEET

**PRODUCT NAME: ACCEPTA 8310**

### 1. Chemical product and company identification

Product Name : ACCEPTA 8310  
 Chemical Name : Sodium Aluminate Solution  
 Product type and use : Coagulant for water treatment  
 Company identification : Accepta LTD  
 Address and telephone number : Statham House, Talbot Road, 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)
Sodium aluminate	1302-42-7	~ 45	C	R35	S1/2, S26, S37/39, S45

### 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, e.g. redness, soreness  
 Ingestion : May cause sickness and vomiting if swallowed  
 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. Do not encourage vomiting.

### 5. Fire-Fighting measures

Extinguishing media  
 - Suitable : Will not burn, use media appropriate for surrounding material  
 - Not suitable : None  
 Specific hazards : Reaction with some metals can liberate flammable hydrogen gas (See Section 7).  
 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 dilute Sulphuric Acid  
- on water : Inform police and/or fire brigade and appropriate local authority

### **7. Handling and storage**

- Storage conditions : Store in stainless steel, mild steel rubber-lined, glass, plastics or mild steel. Because of the tendency for small amounts of insoluble matter to settle out, the tank outlet lines should have a small upstand within the tank and facilities should be available to remove accumulated sludge as required. Due to high viscosity, tank and feed line trace heating should be available. Treat as a caustic substance. Store between 0-30°C.
- Technical protective measures Handle in accordance with good industrial hygiene and safety practice  
Wear appropriate protective clothing if there is a possibility of contact.

### **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. Equipment for eye rinsing  
OEL : 2 mg Al/m<sup>3</sup> (8 hour TWA) 2 mg/m<sup>3</sup> for sodium hydroxide

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

- Form : Pale brown liquid  
Odour : Insignificant  
pH : Approx. 11-12 in concentrated solution.  
Boiling temperature (°C) : Unknown  
Melting/decomposition temp (°C) : N/A  
Density (kg/m<sup>3</sup>) : 1500  
Solubility in water (weight - %) : Complete at 20°C.  
Solubility in organic solvents : None

### **10. Stability and reactivity**

- Conditions to avoid : Stable under normal conditions  
Materials to avoid : Avoid contact with chlorite/hypochlorite/sulphite/oxidising agents, strong acids  
Unalloyed steel, galvanised or aluminium surfaces  
Hazardous decomposition : Thermal decomposition to toxic sodium oxide. Will react with metals such as  
Products aluminium and zinc to liberate hydrogen gas which can form explosive mixtures

### **11. Toxicological information**

- Oral LD<sub>50</sub>, rat (mg/kg) : 500 mg/kg
- Dust and/or splash irritates mucous membranes, eyes and respiratory organs.

### **12. Ecological information**

- Toxic concentration limit : No data available  
Algae : No data available  
Protozoa (Microregma) : No data available  
Under certain dilute conditions Sodium aluminate will hydrolyse to give gelatinous aluminium hydroxide  
Large discharges into watercourses must be avoided, due to injuring aquatic life.

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## **13. Disposal considerations**

Waste from product residues : Dilute with water  
: Suitable dumping to local regulations

Waste from contaminated packaging : Local regulations apply

## **14. Transport information**

Transport warning label : 8  
Packing Group : II  
ADR/RID : Class 8  
IMO-IMDG code : Class 8  
IATA : Class 8  
UN No. : 1819 (Sodium Polyaluminate solution)

## **15. Regulatory information**

Labelling according to EU directives

- Danger symbol(s) : C (Corrosive)
- Risk phrase(s) : R35 Causes severe burns
- Safety phrase(s) : S1/2 Keep locked up and out of reach of children  
: S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  
: S37/39 Wear suitable gloves and eye/face protection  
: S45 In case of accident or if you feel unwell, seek medical advice immediately

EINECS No. : 215-100-1  
CAS No. : 1302-42-7

## **16. Other information**

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

**Issue: 2**

**Issued by: ACCEPTA, STATHAM HOUSE, TALBOT ROAD, MANCHESTER M32 0FP**

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