Material Safety Data Sheet According to 1907/2006/EC - Article 31

1. Identification of the substance/preparation and of the company/undertaking

1.1 Product Identifier

Trade Name: Polyaluminium chloride hydroxide sulphate (PAC)

CAS No: 329290 - 78 - 3 EC No: 254 - 400 - 7

1.2 Relevant Identified uses of the substance or mixture and uses advised against

Uses: At this time we do not yet have information on identified uses. Restrictions: At this time we do not yet have information on identified restrictions.

1.3 Details of the supplier of the safety data sheet

Company: Complete Pool Controls Ltd

Unit 2, The Park Stoke Orchard Bishops Cleeve Gloucestershire GL52 7RS

Telephone: +44 (0) 8712 229081 Fax: +44 (0) 8712 229083 E-mail: sales@cpc-chemicals.co.uk

1.4 Emergency Telephone

Tel: +44 (0) 8712 229081 (office hours)

2. Hazard Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Hazard Class Hazard Category Target Organs Hazard Statements

Skin corrosion/irritation Category 2 H315
Serious eye damage/eye irritation Category 2 H319

For the full text of the H statements mentioned in this section see Section 16.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Hazard Symbol/Category of danger Risk phrases
Irritant (Xi) R36/38

For the full text of the R phrases mentioned in this section see Section 16.

Most important adverse effects

Human Health: See section 11 for toxilogical information
Physical & Chemical Hazards: See section 9 for physicochemical information
Potential environmental effects: See section 12 for environmental information

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard symbols:

(1)

Signal word: Warning

Hazard statements: H315 Causes skin irritation

H319 Causes serious eye irritation

2. Hazard Identification

Precautionary statements:

General

P264 Wash hands thoroughly after handling

P280 Wear protective gloves/protective clothing/eye protection/face protection

P302+313 IF ON SKIN: Wash with plenty of soap and water

P305+P351+P338 Rinse continuously with water for several minutes. Remove contact lenses if present and

easy to do – continue rinsing

P337+P313 If eye irritation persists: Get medical advice / attention

Additional Labelling:

EUH210 Safety data sheet available on request

Hazardous components which must be listed on the label

Aluminium chloride hydroxide sulphate

2.3 Other Hazards

No other information is available

3. Composition/information on ingredients

3.1 Substances

Chemical nature: Aqueous solution

Chemical Name Identification Numbers Amount %
Aluminium chloride hydroxide sulphate CAS No: 329290 - 78 - 3 <100

EC No: 254 - 400 - 7

4. First Aid measures

4.1 Description of first aid measures

General Advice: Take off all contaminated clothing immediately

In case of skin contact: Wash off immediaely with soap and plenty of water. If irritation persists call a doctor.

In case of eye contact:

Rinse immediately with plenty of water, also under the eyelids for at least 15 minutes.

Call a doctor immediately.

If swallowed: Rinse mouth with water and then drink plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: No further information available

Effects: No further information available

4.3 Indication of immediate medical attention and special treatment needed

Treatment Treat symptomatically

No further information available

5. Fire fighting measures

5.1 Extinguishing media:

Suitable extinguishing media: Use fire extinguishing methods suitable to surrounding conditions.

Unsuitable extinguishing media: No information available

5.2 Special hazards arising from the substance or mixture

Specific Hazards during fire: The product itself does not burn

Use fire fighting methods suitable to surrounding conditions. Fighting:

5.3 Advice for firefighters

Wear self contained breathing apparatus (SCBA) and full turn out gear for fire Special protective equipment:

fighting if necessary.

Further Information: No further information available

6. Accidental release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions: Wear protective equipment. Avoid contact with skin and eyes

6.2 Environmental precautions

Environmental precautions: No special precautions required

6.3 Methods and materials for containment and cleaning up

Methods and materials for containment and cleaning up: Absorb with liquid-binding material (sand, diatome, acid binders, universal binders, sawdust). Treat recovered material as described in the section 'Disposal considerations'. Flush away residuals with plenty of water.

6.4 Reference to other sections

For personal protection see section 8

7. Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin, eyes and clothing. Handle in accordance with good Advice on safe handling:

industrial hygiene and safety practise.

Wash hands before breaks and immediately after handling the product. Keep Hygiene measures:

away from food, drink and animal feed stuffs. When using do not eat and

drink.

7.2 Conditions for safe storage, including any incompatabilities.

Requirements for storage areas and

containers:

Keep in an area equipped with acid resistant flooring. Use acid resistant materials only. Use chloride resistant materials only. Keep container tightly closed.

Advice on protection against fire and

explosion:

Normal measures for preventative fire protection

7. Handling and storage continued

Advice on common storage: Store separate from acidic and chloride sensitive materials

German storage class: 8B: Non combustible substances, corrosive

Storage Temperature: 0 - 30°C

7.3 Specific end uses

Specific use(s) No information available

8. Exposure control/personal protection

8.1 Control parameters

Component: Aluminium chloride hydroxide sulphate CAS No: 329290 - 78 - 3

Other OELs

Regulatory Basis: UK. EH40 Workplace Exposure Limits (WELs)

Regulatory List: EH40 WEL

Value type: Time Weighted Average (TWA):

Value: 2mg/m³

8.2 Exposure controls Engineering measures

Refer to protective measures listed in sections 7 and 8

Personal protective equipment

Respiratory protection

Advice: Breathing apparatus needed

Hand protection

Advice: Neoprene gloves

Protective gloves should be replaced at the first signs of wear

Glove thickness: 0.75mm

Eye protection

Advice: Tightly fitting saftey goggles

Skin and body protection

Advice: Protective suit

Environmental exposure controls

General advice: No special precautions required.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form: Liquid

Colour: Clear to slightly cloudy

Odour: Odourless

Odour Threshold: Currently we do not have any information from our supplier about this.

pH @ 20°C: 2 -3 -12°C Freezing point: >100°C Boiling point:

Flash point: not applicable

Currently we do not have any information from our supplier about this. Evaporation rate: Flammability (solid, gas) Currently we do not have any information from our supplier about this. Upper explosion limit: Currently we do not have any information from our supplier about this. Currently we do not have any information from our supplier about this. Lower explosion limit: Currently we do not have any information from our supplier about this. Vapour pressure: Relative vapour density: Currently we do not have any information from our supplier about this.

Density @ 20°C: ca. 1.192 - 1.3 g/cm³ Water solubility: completely soluble

Partition coeffcient:n-octanol/water:

Currently we do not have any information from our supplier about this. Ignition temperature: Currently we do not have any information from our supplier about this. Thermal decomposition: Currently we do not have any information from our supplier about this. Viscosity, kinematic: Currently we do not have any information from our supplier about this. Explosive properties: Currently we do not have any information from our supplier about this. Oxidising properties: Currently we do not have any information from our supplier about this.

9.2 Other Information

No further information available

10. Stability and reactivity

10.1 Reactivity

Advice: No information available

10.2 Chemical stability

Advice: No decomposistion if stores and applied as directed

10.3 Possibilty of hazardous reactions

Hazardous reactions: No information available

10.4 Conditions to avoid

Conditions to avoid Extremes of temperature and direct sunlight

10.5 Incompatible materials

Materials to avoid Oxidising agents

Bases

10.6 Hazardous decomposition products

Hazardous decomposition products: Oxygen

Hydrogen chloride

11. Toxilogical Information

11.1 Information on toxilogical effects

Product: FlocPAC Super CAS No: 329290 - 78 - 3

Acute toxicity
Oral

Value type LD50

Value > 5,000 mg/kg

Species rat

Irritation Skin

Remarks: Irritating to skin

Irritation Eyes

Remarks: Irritating to eyes

Sensitisation

Remarks: No Sensitizing effect known

12. Ecological Information

12.1 Toxicity

Component: Aluminium chloride hydroxide sulphate CAS No: 329290 - 78 - 3

Acute toxicity Fish

Species: Leuciscus idus (Golden orfe)

Exposure time: 48h Value type: LC50

Value: ca. 1,500 mg/l

12.2 Persistance and degradability Currently we do not have any information from our supplier about this.

12.3 Bioaccumlative potential Currently we do not have any information from our supplier about this.

12.4 Mobility in soilCurrently we do not have any information from our supplier about this.

Results of PBT and PvB

assessment

Currently we do not have any information from our supplier about this.

12.6 Other adverse effects

Additional ecological information

Remarks: Solutions with low pH value must be neutralized before discharge.

Ecological injuriers are not known or expected under normal use.

13. Disposal Considerations

13.1 Waste treatment methods

Product: Can be disposed as waste water, when in compliance with local regulations.

Empty remaining contents. Rinse with plenty of water. Store containers and Contaminated packaging:

offer for recycling of material when in accordance with the local regulations.

No waste code according to the European Waste Catalogue can be assigned European Waste Catalogue No:

for this product, as the intended use dictates the assignment. The waste code

is established in cosultation with the regional waste disposer.

14. Transport Information

14.1 UN Number 3264

14.2 UN proper shipping name

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. ADR: (Aluminium chloride hydroxide sulphate)

RID: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Aluminium chloride hydroxide sulphate)

IMDG: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Aluminium chloride hydroxide sulphate)

14.3 Transport hazard class(es)

ADR Class 8

(Label, classification code; Hazard ID; Tunnel 8:C1;80;(E)

Restriction code)

RID Class

(Label, Classification Code; Hazard ID;) 8:C1;80;

ADR Class 8

8;F-A,S-B (Labels; EmS)

LQ

14.4 Packaging Group

Ш ADR: RID: Ш IMDG: Ш

14.5 Environmental hazards

Labelling according to 5.2.1.8 ADR: No Labelling according to 5.2.1.8 RID: No Labelling according to 5.2.1.8 IMDG: No

Classification as environmentally hazardous according to 2.9.3 IMDG: No

14.6 Special precautions for user Not applicable

14.7 Transport in bulk accordint to Annex II of MARPOL 73/78 and the IBC Code

IMDG: Not applicable

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for this substance or mixture.

15.2 Chemical Safety Assessment

Currently we do no have any information from our supplier about this.

16. Other information

Full text of R-phrases referred to under sections 2 and 3

R36/38 Irritating to eyes and skin

Full text of H-statements referred to under sections 2 and 3

H315 Causes skin irritation

H319 Causes serious eye irritation

This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty or merchantability, or fitness for any particular use, or any other warranty, express or implied, with respect to this information, and we assume no liability resulting from use of this information Users should make their own investigations to determine the suitability of the information for their particular needs and uses.

• Abbreviations and acronyms:

ADR: Accord europeen sur le transport des marchandises dangereuse par Route (European Agreement concerning the

International Carriage of Dangerous Goods by Road)

RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations

concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR Dangerous goods Regulations by the 'International Air Transport Association' (IATA)

ICAO: International Civil Aviation Organization

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS European Inventory of Existing Commercial Chemical Substances.

CAS: Chemicals Abstracts Service (division of the Americal Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Revision	Date	Ву	Amendment
1	18/10/10	Linda Brueford	GHS label elements added and other minor editorial amendments
2	20/01/11	Linda Brueford	New Layout and other minor editorial amendments