
SAFETY DATA SHEET

SECTION 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

- Product Name: Poly Aluminium Chloride Solution 10%
- Product Part Number: 032
- CAS Number: 39290-78-3
- EC Number: 254-400-7
- REACH Registration Number: 01-2119531540-51-XXXX
- Synonyms: PAC; Aluminium Chloride Hydroxide Sulfate

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

- Use of the substance/mixture: Water treatment
- Use advised against: No information available

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: Plastica Ltd
- Address of Supplier: Perimeter House
Napier Road
St Leonards-on-Sea
East Sussex
United Kingdom
TN38 9NY
- Telephone: +44 (0) 1424 857857
- Email: Info@plasticapools.com

1.4 Emergency telephone number

- Emergency Telephone: 0800 043 0892
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SECTION 2 Hazards identification

2.1 Classification of the substance or mixture

- Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]: Met. Corr. 1, H290, Eye Dam. 1, H318
- Classification (67/548/EEC, 1999/45/EC) [CHIP]: Xi; R41
- Additional information: For full text of R-phrases and Hazard- and EU Hazard-statements: see section 16

2.2 Label elements



GHS05

- Signal Word: Danger
 - Symbols: GHS05
 - Hazard phrases
May be corrosive to metals.
Causes serious eye damage.
 - Precautionary Phrases
Avoid breathing dust/fume/gas/mist/vapours/spray.
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SECTION 2 Hazards identification (....)

Wear protective gloves/protective clothing/eye protection/face protection.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or doctor/physician.
Store in corrosive resistant/

2.3 Other hazards

- No information available
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SECTION 3 Composition/information on ingredients

3.1 Substances

- Poly Aluminium Chloride
Concentration: 10%
CAS Number: 39290-78-3
EC Number: 254-400-7
Categories: Met. Corr. 1, Eye Dam. 1
R/H Phrases: H290, H318, R41
Symbols: GHS05, Xi
REACH Registration Number: 01-2119531540-51-XXXX
Substance with a Community workplace exposure limit, see Section 8

3.2 Mixtures

SECTION 4 First aid measures

4.1 Description of first aid measures

- Contact with skin
Remove contaminated clothing
Gently wash with plenty of soap and water.
- Contact with eyes
If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes
Remove contact lenses, if present and easy to do. Continue rinsing.
Irrigate eyes thoroughly whilst lifting eyelids
Get immediate medical advice/attention.
- Ingestion
Rinse mouth.
Do NOT induce vomiting.
Get immediate medical advice/attention.
Give 200-300mls (half pint) water to drink
Never give anything by mouth to an unconscious person
- Inhalation
Remove victim to fresh air and keep at rest in a position comfortable for breathing.
When in doubt or symptoms persist, seek medical attention

4.2 Most important symptoms and effects, both acute and delayed

- Causes redness and swelling
 - Causes damage to the eyes
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SECTION 4 First aid measures (....)

- In cases of severe exposure, gastro-intestinal disturbances may develop
- May cause nausea/vomiting

4.3 Indication of any immediate medical attention and special treatment needed

- Treat symptomatically
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SECTION 5 Fire-fighting measures**5.1 Extinguishing media**

- In case of fire use extinguishing media appropriate to surrounding conditions.
- Use water to cool containers exposed to fire.

5.2 Special hazards arising from the substance or mixture

- Gives off irritating or toxic fumes (or gases) in a fire.
- Decomposition products may include hydrogen chloride
- Decomposition products may include sulphur oxides
- See Section 10.6

5.3 Advice for firefighters

- Keep container(s) exposed to fire cool, by spraying with water
 - Special protective equipment: Wear self-contained breathing apparatus (SCBA). Wear full protective clothing including chemical protection suit.
 - Collect contaminated fire extinguishing water separately. This **MUST** not be discharged into drains. Prevent fire extinguishing water from contaminating surface or ground water.
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SECTION 6 Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

- Wear protective clothing as per section 8
- Evacuate the area and keep personnel upwind
- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Wash thoroughly after dealing with spillage
- Eyewash bottles should be available

6.2 Environmental Precautions

- Avoid release to the environment.
- Do not allow to enter public sewers and watercourses
- If contamination of drainage systems or water courses is unavoidable, immediately inform appropriate authorities

6.3 Methods and material for containment and cleaning up

- Absorb spillage in earth or sand
- Remove contaminated material to safe location for subsequent disposal
- Place in appropriate container
- Seal containers and label them
- Ventilate the area and wash spill site after material pick-up is complete

6.4 Reference to other sections

- See Section 7 & 8
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SECTION 7 Handling and storage**7.1 Precautions for safe handling**

- Spillage causes slippery surface
 - Ensure adequate ventilation
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SECTION 7 Handling and storage (....)

- Avoid breathing vapours, mist or gas
- Do not get in eyes, on skin, or on clothing.
- Contaminated work clothing should not be allowed out of the workplace.
- Do not eat, drink or smoke when using this product.
- Eyewash bottles should be available

7.2 Conditions for safe storage, including any incompatibilities

- Store away from other materials.
- Keep away from food, drink and animal feedingstuffs
- Keep in an area equipped with impermeable flooring.
- Keep container tightly closed, in a cool, well ventilated place
- Protect from frost
- Protect from sunlight.
- Keep only in original container.
- Do not store in stainless steel or any metal containers.

7.3 Specific end use(s)

- Water treatment

SECTION 8 Exposure controls/personal protection

8.1 Control parameters

- WEL (long term) 2 mg/m³ (Aluminium salts, soluble)

8.2 Exposure controls

- Engineering controls should be provided which maintain airborne concentrations below the relevant guidelines
- In case of insufficient ventilation, wear suitable positive pressure respiratory protection equipment
- Where an air-purifying respirator is suitable, use EN141 or EN405, type E
- Keep working clothes separately and do not take them home
- Wear suitable protective clothing, eye/face protection and gloves
- The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.
- The selection of a suitable glove depends on work conditions and whether the product is present on its own or in combination with other substances. Breakthrough time is dependent on the characteristics of the brand of glove used and the supplier should be consulted.
- Wear safety glasses approved to standard EN 166.
- Eyewash bottles should be available



Goggles



Gloves



Suit



Respirator

SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance: Liquid, yellow
- Odour: Perceptible odour
- pH: 1.8 - 2.5
- Melting point/Range: -15°C
- Freezing point/Range: -15 °C

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SECTION 9 Physical and chemical properties (....)

- Boiling Point/Range: Approx. 100°C
- Flashpoint: >93°C
- Evaporation Rate: Negligible
- Flammability: Not flammable
- Vapour Pressure: 30 mmHg @ 20°C
- Vapour Density: No information available
- Specific Gravity: 1.21 g/ml @ 20°C
- Solubility in water: Miscible
- Partition Coefficient (n-Octanol/Water):
- Autoignition Temperature Not applicable
- Decomposes above 200 °C
- Viscosity: 4 cP @ 20°C
- Explosive Properties: No information available
- Oxidising Properties: Not oxidising

9.2 Other information

- No information available
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SECTION 10 Stability and reactivity

10.1 Reactivity

- Reacts with metals liberating flammable gas

10.2 Chemical stability

- No decomposition if stored normally.

10.3 Possibility of hazardous reactions

- Reacts with metals liberating hydrogen

10.4 Conditions to avoid

- Keep away from heat and sources of ignition
- Protect from sunlight.
- Avoid extremes of temperature

10.5 Incompatible materials

- Incompatible with metals
- Incompatible with strong oxidizing substances
- Incompatible with reducing agents

10.6 Hazardous Decomposition Products

- Decomposition products may include hydrogen chloride
 - Decomposition products may include sulphur oxides
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SECTION 11 Toxicological information

11.1 Information on toxicological effects

Acute Toxicity

- LD50 (oral, rat) >2000 mg/kg
- Based on available data, the classification criteria are not met

Skin corrosion/irritation

- Based on available data, the classification criteria are not met

Serious eye damage/irritation

- Causes serious eye damage.
- Classification based on calculation and concentration thresholds

Respiratory or skin sensitisation

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SECTION 11 Toxicological information (....)

- No information available
 - Germ cell mutagenicity
 - No information available
 - Carcinogenicity
 - No information available
 - Reproductive toxicity
 - No information available
 - Specific target organ toxicity (STOT) - single exposure
 - No information available
 - Specific target organ toxicity (STOT) - repeated exposure
 - No information available
 - Aspiration hazard
 - No information available
 - Contact with eyes
 - Causes redness and swelling
 - May cause severe damage with formation of corneal ulcers and permanent impairment of vision.
 - Contact with skin
 - May cause irritation
 - Inhalation
 - Effect may vary from irritation of the nasal mucous membrane to severe lung irritation.

 - Ingestion
 - Causes damage and corrosion of the gastrointestinal tract.
 - Can cause damage to the stomach lining
 - May cause nausea/vomiting
 - May cause diarrhoea
-

SECTION 12 Ecological information

12.1 Toxicity

- No experimental test data available for the mixture

12.2 Persistence and degradability

- This substance is not readily biodegradable

12.3 Bioaccumulation Potential

- Bioaccumulation is not expected

12.4 Mobility in soil

- Large volumes may penetrate soil and contaminate groundwater
- Absorbs on soil

12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII
- Not a vPvB according to REACH Annex XIII

12.6 Other Adverse Effects

- May cause adverse effects in the aquatic environment due to low pH
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SECTION 13 Disposal considerations

13.1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation

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SECTION 13 Disposal considerations (....)

- Do not discharge into drains or the environment, dispose to an authorised waste collection point
- Do not reuse empty containers without commercial cleaning or reconditioning
- To be disposed of as hazardous waste

13.2 Classification

- Waste Codes in accordance with the European Waste catalogue (EWC) are origin-defined. Since this product is used in several industries, no Waste Code can be provided by the supplier. The Waste Code should be determined in arrangement with your waste disposal partner or the responsible authority.
 - The waste must be identified according to the List of Wastes (2000/532/EC)
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SECTION 14 Transport information

Corrosive

14.1 UN Number

- UN No.: 3264

14.2 UN Proper Shipping Name

- Proper Shipping Name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Aluminium Chloride Hydroxide Sulfate)

14.3 Transport hazard class(es)

- Hazard Class: 8

14.4 Packing group

- Packing Group: III

14.5 Environmental hazards

- No information available

14.6 Special precautions for user

- See Section 7

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

- Not applicable

14.8 Road/Rail (ADR/RID)

- Proper Shipping Name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Aluminium Chloride Hydroxide Sulfate)
- ADR UN No.: 3264
- ADR Hazard Class: 8
- ADR Packing Group: III
- Tunnel Code: E

14.9 Sea (IMDG)

- Proper Shipping Name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Aluminium Chloride Hydroxide Sulfate)
- IMDG UN No.: 3264
- IMDG Hazard Class: 8
- IMDG Pack Group.: III

14.10 Air (ICAO/IATA)

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SECTION 14 Transport information (....)

- Proper Shipping Name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
(Aluminium Chloride Hydroxide Sulfate)
 - ICAO UN No.: 3264
 - ICAO Hazard Class: 8
 - ICAO Packing Group: III
-

SECTION 15 Regulatory information

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

- This Safety Data Sheet is provided in compliance with the EC Directive 1907/2006-453/2010
- The Hazardous Waste (England and Wales) Regulations 2005 apply in the UK

15.2 Chemical Safety Assessment

- A REACH chemical safety assessment has not been carried out
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SECTION 16 Other information

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- H290: May be corrosive to metals. H318: Causes serious eye damage. R41: Risk of serious damage to eyes.

This 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. Such information is, to the best of PLASTICA'S limited knowledge and belief, accurate, and reliable as of the date of authorisation of this safety data sheet. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to be satisfied as to the suitability and completeness of such information for the product as used.