
SAFETY DATA SHEET

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Name: Pleatco Filter Wash
Product Form: Mixture
Datasheet Number: 212

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

Filter Cartridge of spa or pool cleaner

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 TN38 9NY
United Kingdom
Telephone: +44 (0) 1424 857857
Fax: +44 (0) 1424 857858
Responsible Person:
Email: info@plasticapools.net

1.4. Emergency telephone number 0800 043 0892

2. Hazards identification

2.1 Classification of the substance or mixture

Corrosive to metals, Category 1	H290
Skin corrosion/irritation, Category 1A	H314
Serious eye damage/eye irritation, Category 1	H318
Sensitisation – Respiratory, Category 1	H334
Sensitisation – Skin, Category 1	H317

Full text of H Statements: see section 16

2.2 Label Elements:

Hazard pictograms (GHS-US) :



GHS05



GHS08

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Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	: H290 – May be corrosive to metals : H314 - Causes sever skin burns and eye damage : H317 - May cause an allergic skin reaction : H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Precautionary statements (GHS-UK)	: P234 - Keep only in original container : P260 - Do not breathe dust : P264 - Wash hands thoroughly after handling : P272 - Contaminated work clothing must not be allowed out of the workplace : P280 – Wear eye protection, protective gloves : P284 – [In case of inadequate ventilation] wear respiratory protection : P301+P330+P331 – If swallowed: rinse mouth. Do NOT induce vomiting : P302+P352 – If on skin: Wash with plenty of water : P303+P361+P353 – If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower : P304+P340 – If inhaled: Remove person to fresh air and keep comfortable for breathing : P305+P351+P338 – If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. : P310 – Immediately call a doctor, a POISON CENTRE : P333+P313 – If skin irritation or rash occurs: Get medical advice/attention : P342+311 – If experiencing respiratory symptoms: Call a doctor, a POISON CENTRE : P363 – Wash contaminated clothing before reuse : P390 – Absorb spillage to prevent material damage : P405 – Store locked up : P406 – Store in corrosive resistant container with a resistant inner liner : P501 – Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3 Other Hazards:

- Contact with acids liberates toxic gas. May cause sensitisation of susceptible persons.

3. Composition/information on ingredients

Name	Product identifier	%	GHS-US classification
citric acid	(CAS No) 77-92-9	<= 16.5	Comb. Dust Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Irrit. 2A, H319
Disodium carbonate	(CAS No) 497-19-8	<= 10.42	Eye Irrit. 2A, H319
Sodium silicate	(CAS No) 1344-09-8	<= 10.42	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318

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Potassium peroxymonosulfate sulfate (K5H3(SO3(O2))2(SO4)2)	(CAS No) 70693-62-8	<= 6.4	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318
Sodium metasilicate	(CAS No) 6834-92-0	<= 6.25	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335
Sodium dichloroisocyanurate dihydrate	(CAS No) 51580-86-0	<= 2.08	Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319 STOT SE 3, H335
Sodium hydroxide	(CAS No) 1310-73-2	<= 2.08	Met. Corr. 1, H290 Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314 Eye Dam. 1, H318
Alcohols, C12-18, ethoxylated propoxylated	(CAS No) 69227-21-0	< 2.08	Eye Irrit. 2A, H319
Potassium persulfate	(CAS No) 7727-21-1	<= 0.33	Ox. Sol. 3, H272 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335

4.1 Description of first aid measures

- General: Call a doctor immediately
- Inhalation: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison centre or a doctor.
- Skin contact: Rinse skin with water/shower. Remove/take off immediately all contaminated clothing. Call a doctor immediately.
- Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a doctor immediately.
- Ingestion: Rinse mouth. Do not induce vomiting. Call a doctor immediately.

4.2 More important symptoms and effects, both acute and delayed

- Inhalation: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- Skin Contact: Burns. May cause an allergic skin reaction.
- Eye Contact: Serious damage to eyes.
- Ingestion: Burns. Ingestion may cause nausea, vomiting and diarrhea.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically

Section 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media: Water spray. Dry powder. Foam
Unsuitable extinguishing media: None to our knowledge.

5.2 Special hazards arising from the substance or mixture

Fire hazard: Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

Explosion hazard: Risk of explosion with contact with acid. The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

Reactivity: The product is non-reactive under normal conditions of use, storage and transport.

5.3 Advice for firefighters

Use extinguishing agent suitable for surrounding fire. Avoid generation of dust.

Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation.

For non-emergency personnel - Do not attempt to take action without suitable protective equipment. For further information refer to section 8 "Exposure controls/personal protection". Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe dust.

For emergency responders – Do not attempt to take action without suitable protective equipment. For further information refer to section 8 "Exposure controls/personal protection".

6.2 Environmental Precautions

Avoid release to the environment.

6.3 Methods and material for containment and cleaning up

Recover the product mechanically. Sweep spilled substance into containers, if appropriate, moisten first to prevent dusting. Dispose of materials or solid residues at an authorised site.

6.4 Reference to other sections

For further information refer to section 8: Exposure-controls/personal protection. For disposal of residues refer to section 13: Disposal considerations.

Section 7: Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe dust. Wear personal protective equipment.

Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Store in corrosive resistant container with a resistant inner liner. Keep only in original container. Store locked up. Store in a well-ventilated place. Keep cool.

Incompatible materials – Metals. Strong acids. Strong oxidisers.

Section 8: Exposure controls/personal protection

8.1 Control parameters

Sodium hydroxide (1310-73-2)		
ACGIH	ACGIH Ceiling (mg/m ³)	2 mg/m ³
ACGIH	Remark (ACGIH)	URT, eye, & skin irr
OSHA	OSHA PEL (TWA) (mg/m ³)	2 mg/m ³
IDLH	US IDLH (mg/m ³)	10 mg/m ³
NIOSH	NIOSH REL (ceiling) (mg/m ³)	2 mg/m ³

8.2 Exposure controls

Engineering controls: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Hand protection: Protective gloves. Chemical resistant gloves (according to European standard EN 374 or equivalent). It is recommended that the glove supplier be consulted to ensure the protective gloves are resistant to chemicals in this product.

Eye protection: Safety glasses.

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: Wear respiratory protection.

Environmental exposure Controls: Avoid release to the environment.

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state: Solid
Appearance: Tablets
Colour: White
Odour: Odourless

9.2 Other information

None known

Section 10. Stability and reactivity

10.1 Reactivity

- This product is non-reactive under normal conditions of use, storage and transport.

10.2 Chemical stability

- Stable under normal conditions.

10.3 Possibility of hazardous reactions

- No dangerous reactions known under normal conditions of use.

10.4 Conditions to avoid

- None under recommended storage and handling conditions (see section 7).

10.5 Incompatible materials

Metals. Strong acids. Strong oxidizers.

10.6 Hazardous Decomposition Products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

Section 11. Toxicological information

11.1 Information on toxicological effects

Likely routes of exposure: Ingestion; Inhalation; Skin and eyes contact
Acute toxicity: Not classified

Disodium carbonate (497-19-8)	
LD50 oral rat	4090 mg/kg
LC50 inhalation rat (mg/l)	2300 mg/m ³ (Exposure time : 2 h)
Sodium silicate (1344-09-8)	
LD50 dermal rabbit	> 4640 mg/kg

Sodium metasilicate (6834-92-0)	
LD50 oral rat	1153 mg/kg
Sodium dichloroisocyanurate dihydrate (51580-86-0)	
ATE US (oral)	500 mg/kg bodyweight
Sodium hydroxide (1310-73-2)	
LD50 dermal rabbit	1350 mg/kg
Citric acid (77-92-9)	
LD50 oral rat	3 g/kg
Potassium peroxymonosulfate sulfate (K5H3(SO3(O2))2(SO4)2)(70693-62-8)	
LD50 oral rat	1204 kg
LD50 dermal rabbit	> 11000 mg/kg
LC50 inhalation rat (mg/l)	> 14 mg/l (Exposure time: 1h)
Potassium persulfate (7727-21-1)	
LD50 oral rat	802 mg/kg
LD50 dermal rabbit	> 10000 mg/kg

Skin corrosion/irritation:	Causes severe skin burns and eye damage
Serious eye damage/irritation:	Causes serious eye damage
Respiratory or skin sensitisation:	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Symptoms/injuries after inhalation:	May cause allergy or asthma symptoms or breathing difficulties if Inhaled
Symptoms/injuries after skin contact:	Burns. May cause an allergic skin reaction.
Symptoms/injuries after eye contact:	Serious damage to eyes
Symptoms/injuries after ingestion:	Burns. Ingestion may cause nausea, vomiting and diarrhea.

Section 12. Ecological information

Ecology – general – Harmful to aquatic life with long lasting effects.

12.1 Toxicity

Disodium carbonate (497-19-8)	
LC50 fish 1	300 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	265 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	310 - 1220 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
Sodium metasilicate (6834-92-0)	
LC50 fish 1	210 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])
LC50 fish 2	210 mg/l (Exposure time: 96 h - Species: Brachydanio rerio)
Sodium hydroxide (1310-73-2)	
LC50 fish 1	45.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])

citric acid (77-92-9)	
LC50 fish 1	1516 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
Potassium peroxymonosulfate sulfate (K5H3(SO3(O2))2(SO4)2) (70693-62-8)	
LC50 fish 1	> 32 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])

12.2 Persistence and degradability

- No additional information available

12.3 Bioaccumulation Potential

Disodium carbonate (497-19-8)	
BCF fish 1	(no bioaccumulation)
Sodium silicate (1344-09-8)	
BCF fish 1	(no bioaccumulation expected)
citric acid (77-92-9)	
Log Pow	-1.72 (at 20 °C)
Potassium peroxymonosulfate sulfate (K5H3(SO3(O2))2(SO4)2) (70693-62-8)	
BCF fish 1	(no bioaccumulation expected)

12.4 Mobility in soil

No additional information available.

12.5 Other Adverse Effects

No additional information available.

Section 13. Disposal considerations

13.1 Waste treatment methods

Dispose of contents/container in accordance with licensed collector's sorting instructions.

Section 14. Transport information

Department of Transportation - In accordance with DOT.
Not regulated for transport

Section 15. Regulatory information

EU Regulations

Disodium carbonate (497-19-8)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Sodium silicate (1344-09-8)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Sodium metasilicate (6834-92-0)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Sodium hydroxide (1310-73-2)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Alcohols, C12-18, ethoxylated propoxylated (69227-21-0)
Listed on the EU NLP (No Longer Polymers) inventory
Citric acid (77-92-9)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Potassium peroxymonosulfate sulfate (K5H3(SO3(O2))2(SO4)2) (70693-62-8)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Potassium persulfate (7727-21-1)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Section 16. Other information

Further information The SDS has been revised in accordance with EC Regulation 1272/2008 (CLP)

Risk phrases and hazard statements referred to in sections 2/3

H272	May intensify fire; oxidizer
H290	May be corrosive to metals
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation

Sources of data Other suppliers' safety data sheets

Date of issue 05/04/16

This information is based on our present state of knowledge and is intended to describe our products from the point of view of the safety requirements. It should not be construed as guaranteeing specific properties.

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.