
SAFETY DATA SHEET

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

1.1. Product identifier

Product Name: Energize
Datasheet Number: 009 1. 1. 0

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

Pool/Spa Treatment

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 0891 - Technical
0800 043 0892 - Emergency

2. Hazards identification

2.1 Classification of the substance or mixture

- Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]
- Acute Tox. 4, H302
- Skin Corr. 1B, H314
- Aquatic Chronic 3, H412
- Classification (67/548/EEC, 1999/45/EC)
- Xn; R22
- C: R34
- R52
- Additional information: For full text of R-phrases and Hazard- and EU Hazard-statements: see section 16

2.2 Label Elements:



Hazard phrases

- Harmful if swallowed.
- Causes severe skin burns and eye damage.
- Harmful to aquatic life with long lasting effects.

Precautionary Phrases

- Wear protective gloves/protective clothing/eye protection/face protection.
- Do not breathe dust/fume/gas/mist/vapours/spray.
- Get medical advice/attention if you feel unwell.
- Dispose of contents/container as hazardous waste.

2.3 Other Hazards:

- May cause irritation

3. Composition/information on ingredients

3.1 Mixtures:

| Chemical Name | Concentration | CAS Number | EC Number | R/H Phrases* | Symbols |
|--|---------------|------------|-----------|---|---------------------------------|
| Pentapotassium bis(peroxymonosulphate) bis(sulphate) | 86-96% | 70693-62-8 | 274-778-7 | H302, H314, H412 R22, R34, R52 | GHS05, GHS07 Xn, C, R |
| Dipotassium peroxodisulphate | 0-5% | 7727-21-1 | 231-781-8 | H272, H302, H319, H335, H315, H334, H317 R8, R22, R36/37/38, R42/43 | GHS03, GHS08, GHS07 O, Xn |
| Tetra [carbonato(2-)] dihydroxypentamagnesium | 1-2% | 7760-50-1 | 231-851-8 | H319 R36 | GHS07 Xi |

See Section 16

4. First Aid Measures:

4.1 Description of first aid measures

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- IF ON SKIN: Wash with plenty of soap and water.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- Get medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

- May cause irritation

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 water, carbon dioxide or dry agent for extinction

5.2 Special hazards arising from the substance or mixture

- Gives off irritating or toxic fumes (or gases) in a fire.
- See Section 10.6

5.3 Advice for firefighters

- Wear protective clothing as per section 8
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Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Ensure adequate ventilation. Avoid formation of dust. Keep ignition sources away - no smoking. Wear protective equipment. Keep unprotected persons away.

6.2 Environmental Precautions

- 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

- Sweep or shovel-up spillage and remove to a safe place

6.4 Reference to other sections

- See Section 7 & 8

Section 7: Handling and storage

7.1 Precautions for safe handling

- Ensure adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities

- Store away from other materials.
- Store in a well-ventilated place. Keep cool.
- Store in a dry place.
- Keep only in original container

7.3 Specific end use(s)

- No information available.

Section 8: Exposure controls/personal protection

8.1 Control parameters

Pentapotassiumbis(peroxymonosulphate)bis(sulphate)

- MEL / LTEL (respirable dust) 4 mg/m³
- MEL / LTEL (inhalable dust) 10 mg/m³

8.2 Exposure controls

- Engineering controls should be provided to prevent the need for ventilation

Occupational exposure controls

- In case of inadequate ventilation wear respiratory protection.
- Wear rubber gloves
- When handling this substance, eg. sampling, wear goggles giving complete eye protection
- Wear apron or other light protective clothing



Respirator



Goggles



Gloves



Suit

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

- Odour: Odourless
- Appearance: Solid- white granules
- pH 2.1
- Boiling point - not known
- Vapour pressure < 0.0000017 hPa
- Vapour density - not known
- Melting point - not known
- Water solubility 297 - 357 g/l at 22 °C
- Specific gravity 2.35 g/cm³

- Not flammable but will support combustion
- Partition coefficient : n-Octanol/water - not known
- Evaporation rate - not known
- Viscosity - not applicable

9.2 Other information

- Bulk density 1.1 - 1.4 g/cm³

Section 10. Stability and reactivity

10.1 Reactivity

- No information available

10.2 Chemical stability

- No decomposition if stored normally

10.3 Possibility of hazardous reactions

- No information available

10.4 Conditions to avoid

- Keep away from heat and sources of ignition

10.5 Incompatible materials

- Incompatible with cyanides and salts of heavy metals
- Incompatible with halogenated substances

10.6 Hazardous Decomposition Products

- Decomposition products may include sulphur oxides
- Decomposition products include oxygen

Section 11. Toxicological information

11.1 Information on toxicological effects

- LD50 (oral,rat) 2000 mg/kg

Inhalation

- May cause irritation
- May cause coughing

Contact with skin

- May cause irritation

Contact with eyes

- Can cause damage to the eyes

Ingestion

- Can cause damage to the digestive system

Carcinogenicity

- No information available

Teratogenicity

- No information available

Mutagenicity

- No information available

Section 12. Ecological information

12.1 Toxicity

- Harmful to aquatic life with long lasting effects.
- LC50 (rainbow trout) 53 mg/l (96 hr)
- EC50 (daphnia) 3.5 mg/l (48 hr)

12.2 Persistence and degradability

- Degrades by hydrolysis

12.3 Bioaccumulation Potential

- No information available

12.4 Mobility in soil

- No information available

12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII

12.6 Other Adverse Effects

- See Section 12.1

Section 13. Disposal considerations

13.1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation
- This material and/or its container must be disposed of as hazardous waste

Classification

- The waste must be identified according to the List of Wastes (2000/532/EC)

Section 14. Transport information



Corrosive

14.1 UN Number

- 3260

14.2 UN Proper Shipping Name

- CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
(POTASSIUM PEROXYMONOSULPHATE)

14.3 Transport hazard class(es)

14.4 Packing group

- II

14.5 Environmental hazards

- Harmful to aquatic life with long lasting effects.

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

Other information

Road/Rail (ADR/RID)

Proper Shipping Name: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
(POTASSIUM PEROXYMONOSULPHATE)

ADR UN No.: 3260

ADR Hazard Class: 8

Tunnel Code: E

ADR Packing Group: II

Sea (IMDG)

Proper Shipping Name: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
(POTASSIUM PEROXYMONOSULPHATE)

IMDG UN No.: 3260

IMDG Hazard Class.: 8

IMDG Pack Group.: II

Air (ICAO/IATA)

Proper Shipping Name: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
(POTASSIUM PEROXYMONOSULPHATE)

ICAO Un No.: 3260

ICAO Hazard Class.: 8

ICAO Packing Group.: II

Section 15. Regulatory information

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

- Refer to current CPL Regulations
- Refer to current EC Directive 82/501/EEC (the Seveso Directive)
- The List of Wastes (England) Regulations 2005 apply in the UK

15.2 Chemical Safety Assessment

Section 16. Other information

Text of R and S phrase codes used in this safety data sheet:- H272: May intensify fire; oxidizer.; H302: Harmful if swallowed.; H314: Causes severe skin burns and eye damage.; H315: Causes skin irritation.; H317: May cause an allergic skin reaction.; H319: Causes serious eye irritation.; H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.; H335: May cause respiratory irritation.; H412: Harmful to aquatic life with long lasting effects.; R22: Harmful if swallowed; R34: Causes burns; R36: Irritating to eyes; R36/37/38: Irritating to eyes, respiratory system and skin; R42/43: May cause sensitisation by inhalation and skin contact; R52: Harmful to aquatic organisms; R8: Contact with combustible material may cause fire.

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.