

SAFETY DATA SHEET



Product Name:

ENERGIZE

SDS Reference **009**

Version No. 1

Revision Date.

Authorisation date 14th September 2006

1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

Product Name PLASTICA SPA & POOL ENERGIZE
Synonym (s) ACTIVE OXYGEN
Use(s) Water oxidiser
Company Identification PLASTICA LTD
Perimeter House,
Napier Road,
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2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterisation

<u>Chemical name</u>	<u>CAS-No</u>	<u>EINECS/ELINCS</u>	<u>Classification</u>	<u>Concentration</u>
PENTAPOTASSIUM BIS (PEROXIMONOSULPHATE) BIS SULPHATE	70693-62-8	274-778-7	C; R34 Xn; R22, R52	78-80%
TROCLOSENE-SODIUM	2893-78-9	220-767-7	O; R8 Xn; R22, R31 Xi; R36/37 N; R50-R53	10-20%
SODIUM CARBONATE	497-19-8	207-838-8	Xi; R36	5-15%
DIPOTASSIUM PEROXODISULPHATE	7727-21-1	231-781-8	O; R8 Xn; R22 Xi; R36/37/38, R42/43	1.0-2.5%
POLY (DIALLYLDIMETHYLAMMONIUM CHLORIDE)	26062-79-3	NOT ASSIGNED	N; R51/53	<1.5%

3. HAZARDS IDENTIFICATION

Physical & Chemical:



HARMFUL

Health:

HARMFUL IF SWALLOWED.
CONTACT WITH ACIDS LIBERATES TOXIC GAS.
IRRITATING TO EYES
MAY CAUSE SENSITISATION BY INHALATION AND SKIN CONTACT



**DANGEROUS
FOR THE
ENVIRONMENT**

Environmental:

TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

4. FIRST AID MEASURES

Inhalation	Remove from exposure, lie down. If victim has stopped breathing: artificial respiration and/or oxygen may be necessary. Consult a physician.
Skin contact	Wash off with plenty of water. If necessary' consult a physician.
Eye contact	Remove contact lenses. Rinse immediately with plenty of water and seek medical advice
Ingestion	Do NOT induce vomiting. If conscious, drink plenty of water. Call a physician immediately.
General	Never give anything by mouth to an unconscious person. If a person vomits when lying on his back, place him in the recovery position.

5. FIRE FIGHTING MEASURES

General hazard	THE PRODUCT WILL BURN IN A FIRE
Extinguishing media	Foam, dry powder, carbon dioxide (CO ₂). Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
Special exposure hazards	None known
Protective equipment	Wear self-contained breathing apparatus and protective suit
Further information	Avoid run-off water entering the drains (e.g. use barriers)

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Do not create dust. Mark out the contaminated area with signs and prevent access to unauthorised personnel.
Environmental precautions:	Try to prevent the material from entering drains or water courses.
Clean-up procedures:	Do not allow to enter surface water courses. The creation and inhalation of dust must be avoided. Sweep up spilt material into suitable containers for waste recovery or waste disposal. Dispose of in accordance with local regulations. After cleaning, flush away traces with water.

7. HANDLING & STORAGE

Advice on safe handling	Ensure there is sufficient ventilation of the area. Avoid contact with the skin and eyes. Avoid the formation or spread of dust in the air. Smoking is forbidden. See section 8 for personal protective clothing.
Storage conditions	Protect from contamination. Store in original container. Store in cool, dry, well ventilated area. Avoid incompatible materials and conditions - see section 10 of SDS. Keep container tightly closed. Keep away from flammable and combustible materials.
Suitable packaging:	

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure controls	Monitoring of the workplace should be considered in accordance with EH40 (or equivalent) controls. LTEL (8 hour TWA): ppm 10 mg/m ³ Inhalable dust (EH40/2005) LTEL (8 hour TWA): ppm 4 mg/m ³ Respirable dust (EH40/2005)
Engineering controls	Ensure adequate ventilation of working area
Personal protection	Observe normal standards for handling chemicals. It is recommended that those with a medical history of sensitisation should not handle this product. Avoid breathing dust and contact with eyes Wash hands before breaks and after work. Wear personal protective equipment appropriate to the task (see below) Remove and wash contaminated clothing before re-use.
Eye protection	Tightly fitting safety goggles (i.e. EN 166 approved)
Skin protection	Natural rubber latex gloves (also consider your own risk assessment; e.g. breakthrough times, rates of diffusion and degradation, tasks undertaken)
Respiratory protection	When facing concentrations above the exposure limit you must use appropriate certified respirators
Other protection	Protective apron and boots.

9. PHYSICAL & CHEMICAL PROPERTIES

Physical form	Powder
Colour	White
Odour	
pH	ca. 7 at 1 g/l
Boiling pt / range	°C
Melting pt / range	240 °C
Flash point	°C Does not flash
Auto flammability	°C
Water solubility	Soluble

10. STABILITY & REACTIVITY

Stability	Stable under normal conditions of handling.
Conditions to avoid	Exposure to moisture
Material to avoid	Strong acids and bases, combustible material
Hazardous reactions	
Hazardous decomposition products	Sulphur dioxide, chlorine

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	LD ₅₀ rat (oral)	200-2,000	mg/kg	Pentapotassium bis (peroximonosulphate) bis (sulphate)
	LD ₅₀ rat (oral)	1,100	mg/kg	Dipotassium peroxodisulphate
Acute inhalation toxicity	LC ₅₀ rat (4h)	5	mg/l	Pentapotassium bis (peroximonosulphate) bis (sulphate)
Acute dermal toxicity	LD ₅₀ rat	2,000	mg/kg	Pentapotassium bis (peroximonosulphate) bis (sulphate)
	LD ₅₀ rabbit	10,000	mg/kg	Dipotassium peroxodisulphate
Dermal compatibility	No data available			
Mucous membrane compatibility	No data available			
Further information	Excessive exposures may affect human health as follows:			
	Inhalation: upper respiratory tract – cough, local irritation, discomfort			
	Skin contact: mild skin irritation, discomfort			
	Eye contact : lachrymation, blurred vision, severe irritation, damage			
	Ingestion : nausea, discomfort			

12. ECOLOGICAL INFORMATION

Toxicity to fish	LC ₅₀	Oncorhynchus mykiss (rainbow trout)	53	mg/l	Data for pentapotassium bis (peroximonosulphate) bis (sulphate)
Aquatic toxicity	EC ₅₀	Daphnia (48h)	3.5	mg/l	Data for pentapotassium bis (peroximonosulphate) bis (sulphate)
Degradability	No data available				
Further information	No data is available on the product itself				

13. DISPOSAL CONSIDERATIONS

Advice on disposal	Dispose of as special waste in accordance with national and local authority regulations, e.g. The Hazardous Waste (England & Wales) Regulations 2005. The product should not be allowed to enter drains, water courses or the soil
Contaminated packaging	Treat empty containers in the same way as the product or if possible wash out thoroughly and recycle.

14. TRANSPORT INFORMATION

United Nations number	3077
Packaging group	III
IMDG code	9/3077/III
RID / ADR	9, III
ICAO / IATA	9/3077/III
Marine pollutant	The product should not be marked as a marine pollutant
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TROCLOSENE-SODIUM)
Emergency action code	2X

15. REGULATORY INFORMATION**Classification & labelling**

The product is classified in accordance with the Chemicals (Hazard Information and Packaging for Supply) Regulations [CHIP 3.1]. Contains pentapotassium bis (peroximonsulphate) bis (sulphate); dipotassium peroxodishate

**HARMFUL****DANGEROUS
FOR THE
ENVIRONMENT****Risk phrases**

R22: Harmful if swallowed.
 R31: Contact with acids liberates toxic gas.
 R36: Irritating to eyes
 R42/43: May cause sensitisation by inhalation and skin contact
 R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases

S2: Keep out of the reach of children.
 S22: Do not breathe dust.
 S29: Do not empty into drains.
 S36: Wear suitable protective clothing.
 S46: If swallowed, seek medical advice immediately and show this container or label.

16. OTHER INFORMATION**Further information**

Refer to the Manual Handling Operations Regulations 1992. Store in accordance with HSE Guidance Note CS17. Classed as special waste by the Hazardous Waste Regulations 2005.

Sources of data

The Approved Supply List, EH40 (2005) and other suppliers' safety data sheets

Risk Phrases used in Section 2

R8 Contact with combustible material may cause fire.
 R22 Harmful if swallowed
 R31 Contact with acids liberates toxic gas.
 R34 Causes burns.
 R36 Irritating to eyes,
 R36/37 Irritating to eyes and respiratory system.
 R36/37/38 Irritating to eyes, respiratory system and skin.
 R36/38 Irritating to eyes and skin
 R42/43 May cause sensitization by inhalation and skin contact.
 R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R52 Harmful to aquatic organisms.

Date of issue

14/9/06

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.