

SAFETY DATA SHEET



Product Name: **RELAX NON CHLORINE SHOCK**

SDS Reference **027**

Version No. **1**

Revision No.

Authorisation date **March 11th, 2006**

1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

Product Name RELAX OXYGEN TABLETS
Synonym (s) ACTIVE OXYGEN TABLETS, NON-CHLORINE SHOCK
Use(s) Oxidation of swimming pool water
Company Identification **PLASTICA LTD**
Perimeter House,
Napier Road, Telephone +44 (0) 1424 857857
St Leonards-on-Sea, East Sussex, TN38 9NY
Emergency Telephone 09062 655005 (24hr)

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterisation POTASSIUM PEROXYMONOSULPHATE (98%)
CAS number 70693-62-8
EINECS number 274-778-7
EC Index number

3. HAZARDS IDENTIFICATION



Physical & Chemical: CONTACT WITH COMBUSTIBLE MATERIAL MAY CAUSE FIRE.

OXIDISING



Health: CAUSES BURNS.

CORROSIVE

Environmental: MAY BE HARMFUL TO AQUATIC ORGANISMS.

4. FIRST AID MEASURES

General information Under no circumstances should the intoxicated person be left unattended.
Inhalation Remove casualty to fresh air and provide warmth and rest. If necessary seek medical advice.
Skin contact Immediately wash contaminated skin with large quantities of water. If necessary seek medical advice.
Eye contact Immediately wash out eye thoroughly with plenty of water until irritation subsides. If irritation persists, CONSULT AN EYE SPECIALIST/OPHTHALMOLOGIST
Ingestion Do NOT induce vomiting. Drink plenty of water and if necessary seek medical advice. Beware of aspiration if vomiting does occur.
Further information First aiders should avoid contact with the product.

5. FIRE FIGHTING MEASURES

General hazard	THE PRODUCT DOES NOT BURN
Extinguishing media	To suit local surroundings (e.g. abundant water, carbon dioxide, chemical powder)
Extinguishing media not to be used	
Special exposure hazards	The thermal decomposition products released should be considered toxic if inhaled. .
Protective equipment	Wear self-contained breathing apparatus.
Further information	Avoid run-off water entering the drains (e.g. use barriers)

6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up	Adhere to personal protective measures. Take up mechanically (e.g. sweep or vacuum up) into a suitable container or slowly neutralise with alkali causing heat and oxygen to be generated. Label container and dispose of as prescribed. .
Environmental considerations	Do not allow the product to enter ground or waste water. If this occurs, inform the local water authority at once.
Further information	

7. HANDLING & STORAGE

Advice on safe handling	Handle in accordance with good hygiene and safety practice. Keep the raising and deposition of dust to a minimum.
Storage conditions	Ensure adequate ventilation of the storage area. Keep containers tightly closed and dry. Store in original container away from combustible materials. Keep in dry, cool and well ventilated place, away from combustible materials. Store in original container.
Further information	

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure controls	Monitoring of the workplace should be considered in accordance with EH40 (or equivalent) controls <table> <tr> <td>LTEL (8 hour TWA):</td> <td>ppm</td> <td>10</td> <td>mg/m³</td> <td>(total inhalable dust,EH40/2005)</td> </tr> <tr> <td>LTEL (8 hour TWA):</td> <td>ppm</td> <td>4</td> <td>mg/m³</td> <td>(respirable dust, EH40/2005)</td> </tr> </table>	LTEL (8 hour TWA):	ppm	10	mg/m ³	(total inhalable dust,EH40/2005)	LTEL (8 hour TWA):	ppm	4	mg/m ³	(respirable dust, EH40/2005)
LTEL (8 hour TWA):	ppm	10	mg/m ³	(total 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 (e.g. local exhaust ventilation).										
Personal protection	Observe normal standards for handling chemicals. Avoid breathing dust and eye and skin contact. Wash thoroughly after handling (shower if necessary) Wear personal protective equipment appropriate to the task (see below)										
Eye protection	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	Dust mask (if ventilation is insufficient)										
Other protection	Protective overall, boots.										

9. PHYSICAL & CHEMICAL PROPERTIES

Physical form	Solid tablets		
Colour			
Odour	Odourless		
pH	Of 10 g/l H ₂ O @ 20°C: 2.0-3.0		
Boiling pt / range		°C decomposes	
Melting pt / range		°C decomposes	
Flash point	Not applicable	°C	
Autoflammability		°C	
Density	1.0-1.2 g/cm ³		
Explosive limits	Lower:	% (v/v)	Higher: % (v/v)
Viscosity			
Water solubility	250 g/l @ 20°C; 330 g/l @ 70°C		
Additional information			

10. STABILITY & REACTIVITY

Stability	Stable under normal conditions of handling.
Thermal decomposition	> 70°C exothermic decomposition.
Conditions to avoid	Do not heat. High temperatures: from 70°C exothermic decomposition
Material to avoid	The product is incompatible with alkalis, combustible materials, cyanides and salts of heavy metals (e.g. cobalt, nickel, copper, manganese).
Hazardous reactions	With halogenated substances, halogens are evolved (e.g. mixed with sodium chloride, chlorine gas can be evolved). Hazardous polymerisation will not occur.
Hazardous decomposition products	On heating: sulphurous oxides.
Further information	

11. TOXICOLOGICAL INFORMATION

Acute toxicity	LD ₅₀ rat (oral)	> 2000 mg/kg
Dermal compatibility	Corrosive as the solid. 25% and 3% aqueous solutions are highly irritant and non irritant respectively.	
Mucous membrane compatibility	Corrosive	
Further information	Not mutagenic in the Ames Test and no evidence of carcinogenicity.	

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12. ECOLOGICAL INFORMATION

Acute toxicity	LC ₅₀	Fish (brachydanio rerio)	30-60	mg /l	24 hours
	LC ₅₀	Fish (zebra fish)	32-56	mg/l	24 hours
	EC ₅₀	Daphnia magna	5.3	mg/l	48 hours
	EC ₅₀	Bacteria (Pseudomonas putrida)	179	mg/l	
Degradability	No data available. However, it is estimated that biological degradation with be good.				
Further information	Do not allow to get into waste water or waterways; if this occurs, inform the relevant water authority at once.				

13. DISPOSAL CONSIDERATIONS

Advice on disposal	In accordance with national and local authority regulations, e.g. special waste (e.g. Special Waste Regulations, 1996) or incineration, after consultation with the operator.
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	UN 3260
Packaging group	III
IMDG code	8/3280/III
RID / ADR	8/III
ICAO / IATA	8/3280/III
Marine pollutant	The product should not be marked as a marine pollutant.
Proper shipping name	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (POTASSIUM PEROXYMONOSULPHATE)
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] EC No 274-778-7



OXIDISING



CORROSIVE

Risk phrases	R8	Contact with combustible materials may cause fire
	R34	Causes burns
Safety phrases	S1/2	KEEP LOCKED UP AND OUT OF REACH OF CHILDREN.
	S26	IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.
	S36/37/39	WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION. .
	S45	IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE IMMEDIATELY (SHOW LABEL WHERE POSSIBLE).

16. OTHER INFORMATION**Further information**

Sources of data Other suppliers' safety data sheets, Approved Carriage List

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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.

Data sheet prepared by Rising HS&E Services.