

# SAFETY DATA SHEET



Product Name:

**OXYGEN TABLETS**

SDS Reference **026**

Version No. 1

Revision No.

Authorisation date March 11<sup>th</sup>, 2000

## 1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

**Product Name** RELAX OXYGEN TABLETS  
**Synonym (s)** ACTIVE OXYGEN TABLETS, NON-CHLORINE SHOCK  
**Company Identification** **PLASTICA LTD**  
Perimeter House,  
Napier Road, Telephone +44 (0) 1424 857857  
St Leonards-on-Sea, East Sussex, TN38 9NY  
**Emergency Telephone** 0845 6013142 (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**

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

**6. ACCIDENTAL RELEASE MEASURES**

<b>Methods for cleaning up</b>	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. .
<b>Environmental considerations</b>	Do not allow the product to enter ground or waste water. If this occurs, inform the local water authority at once.
<b>Further information</b>	

**7. HANDLING & STORAGE**

<b>Advice on safe handling</b>	Handle in accordance with good hygiene and safety practice. Keep the raising and deposition of dust to a minimum.
<b>Storage conditions</b>	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.
<b>Further information</b>	

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

<b>Exposure controls</b>	Monitoring of the workplace should be considered in accordance with EH40 (or equivalent) controls LTEL (8 hour TWA):                      ppm            10    mg/m <sup>3</sup> (total inhalable dust,EH40/2002) LTEL (8 hour TWA):                      ppm            4     mg/m <sup>3</sup> (respirable dust, EH40/2002)
<b>Engineering controls</b>	Ensure adequate ventilation of working area (e.g. local exhaust ventilation).
<b>Personal protection</b>	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)
<b>Eye protection</b>	Safety goggles (i.e. EN 166 approved)
<b>Skin protection</b>	Natural rubber latex gloves (also consider your own risk assessment; e.g. breakthrough times, rates of diffusion and degradation, tasks undertaken)
<b>Respiratory protection</b>	Dust mask (if ventilation is insufficient)
<b>Other protection</b>	Protective overall, boots.

**9. PHYSICAL & CHEMICAL PROPERTIES**

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

**10. STABILITY & REACTIVITY**

<b>Stability</b>	Stable under normal conditions of handling.		
<b>Thermal decomposition</b>	> 70°C exothermic decomposition.		
<b>Conditions to avoid</b>	Do not heat. High temperatures: from 70 <sup>0</sup> C exothermic decomposition		
<b>Material to avoid</b>	The product is incompatible with alkalis, combustible materials, cyanides and salts of heavy metals (e.g. cobalt, nickel, copper, manganese).		
<b>Hazardous reactions</b>	With halogenated substances, halogens are evolved (e.g. mixed with sodium chloride, chlorine gas can be evolved). Hazardous polymerisation will not occur.		
<b>Hazardous decomposition products</b>	On heating: sulphurous oxides.		
<b>Further information</b>			

**11. TOXICOLOGICAL INFORMATION**

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

**12. ECOLOGICAL INFORMATION**

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

**13. DISPOSAL CONSIDERATIONS**

<b>Advice on disposal</b>	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.
<b>Contaminated packaging</b>	Treat empty containers in the same way as the product or if possible wash out thoroughly and recycle.

**14. TRANSPORT INFORMATION**

<b>United Nations number</b>	UN 3260
<b>Packaging group</b>	III
<b>IMDG code</b>	8/3280/III
<b>RID / ADR</b>	8/III
<b>ICAO / IATA</b>	8/3280/III
<b>Marine pollutant</b>	The product should not be marked as a marine pollutant.
<b>Proper shipping name</b>	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (POTASSIUM PEROXYMONOSULPHATE)
<b>Emergency action code</b>	2X

**15. REGULATORY INFORMATION**

**Classification & labelling** The product is classified in accordance with the Chemicals (Hazard Information and Packaging for Supply) Regulations [CHIP 2002] EC No 274-778-7



OXIDISING



CORROSIVE

<b>Risk phrases</b>	R8	Contact with combustible materials may cause fire
	R34	Causes burns
<b>Safety phrases</b>	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).

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**SDS Reference 026**

**16. OTHER INFORMATION**

**Further information**

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

**Date of issue** 15-09-2003

**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.