ETS® eoxide LQ Tablets

SAFETY DATA SHEET

according to Regulation (EC) No. 453/210
Version 2017.1 Revision Date 01.03.2017
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GENERIC EU MSDS – NO COUNTRY SPECIFIC DATA – NO OEL DATA

1.IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	eOxide LQ Tablets ETS
Supplier Name	International UG
Address	Wilhelm Rupert,str.38 D51147, Koln Germany
Telephone Fax	+49 2261 9130 865
Emergency Web	+49 2261 9130 897
Site	+49 1768 4294 205
	www.etsint.de
Synonym(s) Uses	Disinfectant for rainwater tanks, boats, caravans, spas, pools and ornamental ponds

2.HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS

Hazard Classification	Xn Harmful; N Dangerous for the environment
Risk Phrases	
R21/22	Harmful in contact with skin and if swallowed.
R29	Contact with water liberates toxic gas.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
Safety Phrases	
S1/2	Keep locked up and out of reach of children.
S7/8	Keep container tightly closed and dry.
S22	Do not breathe dust.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S29	Do not empty into drains.
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 the label where possible).
S51	Use only in well-ventilated areas.
S61	Avoid release to the environment. Refer to special instructions/safety data sheet.

3.COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	**CAS No.**	**Content**
Sodium Chlorite	7758-19-2	1 - 10%
Non-hazardous ingredients		to 100%

4.FIRST AID MEASURES

Eye	Hold eyes open and flush immediately with running water for at least 15 minutes. Seek medical attention.
Inhalation	Remove victim to fresh air. If victim finds breathing difficult and develops a bluish discoloration of the skin, ensure airways are clear and have qualified person give oxygen through a face mask. Seek medical attention immediately.
Skin	Rinse immediately with clean water. Remove contaminated clothing and launder Before re-use. Get medical attention, if irritation persists.

Ingestion	DO NOT INDUCE VOMITING. Rinse mouth with water. Give plenty of water to drink provided victim is conscious. Seek immediate medical attention.
Advice to Doctor	Symptomatic treatment and supportive therapy as indicated. Emergency eye wash facilities should be available in the immediate vicinity of any potential exposure.
First Aid Facilities	

5.FIRE FIGHTING MEASURES

Extinguishing Media Specific	Flooding amounts of water.
hazards arising from the	When strongly heated, the product may release gases which will increase the burning rate of combustible matter. Contact with moisture. will produce chlorine dioxide gas. The lower explosive limit (LEL) for chlorine dioxide is 10%. If large amounts of the product are involved in a fire, it is possible that the application of water mist or fog could release enough chlorine dioxide gas in a confined space to present an explosion hazard. The chlorine dioxide will dissolve harmlessly in flooding amounts of water.
chemical Precautions for Fire	
Fighters	Decomposes on heating emitting toxic fumes, including chlorine gas. Fire fighters to wear self-contained breathing apparatus and apply water from a protected location or from a safe distance.

6.ACCIDENTAL RELEASE MEASURES

Protective Equipment and Emergency Procedures	Wear personal protective equipment as specified in Section 8. Contain spillage. Avoid generating dust. Scoop up or vacuum into a container for reclamation or disposal. Neutralize concentrated chlorine dioxide solutions with sodium bisulphate or sodium thiosulphate. Soak up spill using an absorbent material. Flush residual material to waste with an excess of water, in accordance with local regulations.
Environmental precautions	Prevent run-off into drains or waterways using sand, earth or other non-combustible material. If product does enter a waterway advise the environmental protection authority or your local waste management.
Methods and materials for containment and clean up	Soak up spilled solutions using absorbent non-combustible material such as sand or soil. Sweep or shovel spills into an appropriate container for disposal. Do not absorb with combustible materials (e.g. sawdust). Flush with plenty of water. Prevent water from entering public water, sewers or soil. Neutralise spills with sodium bisulphite or sodium thiosulphate. Wash traces away from spilled site with water.

7.STORAGE AND HANDLING

Handling	Wash hands immediately after handling. Avoid generating or breathing dust. Avoid contact with skin, eyes and clothing. Use with adequate ventilation.
Storage	Store in a cool, well ventilated area. Keep containers closed when not in use. Do not store near acids, reducing agents, organic compounds, wood or paper. Store away from risk of fire.

8.EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards	No exposure standard has been established for this product by the National Occupational Health and Safety Commission (NOHSC). However, the exposure standard for chlorine dioxide gas is: 8hr TWA = 0.28mg/m3 (0.1ppm); 15min STEL = 0.83mg/m3 (0.3ppm).

Biological Limits

No information available.

Engineering Controlshghgf

When handling small quantities, ensure plenty of fresh air. When handling large quantities in an occupational setting, a system of local and/or general exhaust is recommended to keep employee exposure as low as possible. Local exhaust ventilation is preferable because it can control the emissions of the contaminant at its source preventing dispersion into the general work area.

PPE

When handling small quantities, household gloves and eye protection should be worn. If handling large quantities in an industrial setting the following measures should be considered:
Respirator: Wear an approved respirator with suitable filter for organic gases and vapors if engineering controls are inadequate (AS 1715/1716).
Eyes: Safety glasses with side shields (AS 1336/1337).
Hands: Impervious gloves (AS 2161)
Clothing: Coveralls and enclosed footwear (AS 3765/2210).

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White tablets	**Melting Point**	Not applicable
Odour	Odourless to slight chlorine	**Solubility (Water)**	Reacts with water
pH (0.2% in water)	5 to 8	**Bulk Density**	1.5g/cc approx
Vapour Pressure	Negligible	**Flammability**	Not combustible

10. STABILITY AND REACTIVITY

Reactivity Reacts with water to form chlorine dioxide.

Chemical Stability In the absence of moisture, product is stable under normal conditions of temperature and pressure.

Hazardous Reactions On exposure to moisture, chlorine dioxide gas is generated.

Conditions to Avoid Store away from heat and moisture.

Material to Avoid Incompatible with acids.

Decomposition Thermal decomposition >180^{o}C

11. TOXICOLOGICAL INFORMATION

Health Hazard Summary No adverse health effects expected if handled in accordance with this Safety Data Sheet and product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Eye Risk of serious eye damage. A severe eye irritant. Corrosive to eyes. May cause permanent eye injury.

Inhalation Not volatile. Breathing in dust may produce respiratory irritation.

Skin Harmful by skin contact. Contact with moist skin may cause severe irritation. Repeated or prolonged skin contact may cause dermatitis.

Ingestion Harmful if swallowed. May cause nausea, vomiting, diarrhoea, abdominal pain and chemical burns to the gastrointestinal tract.

Toxicity Data No data available for this product. For the constituent sodium chlorite: Oral LD50 (rat) 165mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity Very toxic to aquatic life. May cause long term adverse effects in an aquatic environment.

Persistence and Degradability Degrades in the presence of moisture.

Bioaccumulation Not expected to have any potential to bioaccumulate.

Mobility in Soil Reacts with moisture releasing chlorine dioxide. Residual material is sodium salts including sulphate and chloride.

Other adverse effects None known.

13. DISPOSAL CONSIDERATIONS

Disposal Methods	Packaging should be completely empty and rinsed thoroughly. Waste material should be treated with excess water, neutralized with sodium bisulphate or sodium thiosulphate solution and disposed of in accordance with local, state and federal regulations.
Legislation	Contact a specialist disposal company or the local waste regulator for advice. This should be done in accordance with "The Hazardous Waste Act".

14. TRANSPORT INFORMATION

CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

Proper Shipping Name	Water-reactive solid, n.o.s. (sodium chlorite) 2813
UN No.	4.3
Class	None
Subsidiary Risk(s) Packing Group Environmental Hazards for Transport Purposes Special Precautions for User	II Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.
Hazchem Cod	2X

15. REGULATORY INFORMATION

AICS	All ingredients are listed on the Inventory of Chemical Substances.
Other Information	

16. OTHER INFORMATION

Additional Information Report	It should be noted that the effects from exposure to this product depend on many factors including the amount used, frequency and duration of use, control measures adopted, protective equipment used and method of use. It is impractical to prepare a data sheet that encompasses all possible situations; therefore it is anticipated that users will assess the risks and apply appropriate control methods as required.
Status Prepared By	This Safety Data Sheet is based on the best available information at the time of issue concerning the product and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions. All due care has been taken to include accurate and up-to-date information. No warranty as to accuracy or completeness is provided. As far as lawfully possible, ETS International UG accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of reliance on the information contained in this ETS International UG.
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End of Report

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