

Material Safety Data Sheet

eOx, Inc. Environmental Technologies

1	Product Name:	EOXIDE LQ 75 COMPONENT -A				
	Product Code: Purpose Type of product Registration number Manufacturer Identification	Product in solution N-40741 Manufactured by eOx International 1e Lulofsdwarsstr	<u>":</u> I b.v. raat 117, 2521 AZ,	The Hague, Th	e Netherlands I: info@eox-internationa	ıl.com
2	Hazards Information / Risks	- Harmful effects - Physico-chemica	: 1		lowed damage to eyes ids liberates very toxic g	as
		Classification of Product : Harmful				
3	Composition/Information on Elements Hazardous components: Sodium Chlorite	% Weight 10-25%	CAS-nr 7758-19-2	EC-nr 231-836-6	R-wording 08-22-23-24-31-34	Symbol O T
	Full text of each relevant R phrase can be found in heading 16					
4	First Aid Measures General indications After Inhalation	 Remove victim to fresh air. Allow the affected person to rest. If not breathing, give artificial respiration. Take to hospital. Risk of pulmonary oedema Take patient to hospital IMMEDIATELY Contact Rinse immediately with plenty of water. Remove contaminated clothing and shoes. Rinse abundantly with water (shower if necessary). Obtain medical attention. Contact Rinse immediately thoroughly and long (at least 15 min.) with plenty of water. Remove contact lenses. Take to eye doctor afterwards. Keep rinsing or dripping the eye during transport. DO NOT INDUCE VOMITING Rinse mouth with water. Take to hospital IMMEDEATELLY 				
	After Skin Contact After Eye Contact					
	After Ingestion Emergency medical treatment					

IN ACCORDANCE WITH THE REACH-ENACTMENT (EG) nr. 1907/2006, art.31 appendix II. : 2010-11-29

Printing date Compiled by Date of issue Reference number Reason for revision

: N-38957

: eOx International by Product : EOXIDE LQ 75 -A : 2010-07-22 Revision :1 :001 Revision number : General revision Page :1



5	Fire Fighting Measures	
	Suitable Extinguishing Media	 Incombustible product, but stimulates fire of other materials.
		Powder, Water spray
	In-suitable Extinguishing Media	Carbon dioxide, Foam
	Special exposure hazards	May release heat and harmful fumes
		Contact with combustible material may cause fire after impregnation and drying
	Protection against fire	Evacuate unnecessary personnel
		Wear proper protective equipment
	Special Exposure Hazards	 Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves Contact with acids liberates taxis gas
		Contact with acids liberates toxic gas
	Special procedures	Exercise caution when fighting any chemical fire
6	Accidental Spill or Release Measures	
	Personal Precautions	Equip cleanup crew with proper protection.
		Avoid contact with skin and eyes
		Only approved supplied air or self-contained breathing apparatus operated in positive
		pressure mode are satisfactory, if exposure can exceed the exposure limit
		Remove ignition sources
		 Spill should be handled by trained cleaning personnel properly
	For the second of Descentions	equipped with respiratory and eye protection
	Environmental Precautions	 Prevent entry to public water, sewers or soil.
	After crillege /lookege	Notify authorities if product enters sewer or public waters.
	After spillage/leakage	Flush with plenty of water
		 Do not allow product to dry out Contact with combustible material may cause fire after impregnation and drying
	Recovery on soil	 Stop the spillage, if possible without risk for the workforce
	Recovery off son	 Dike for recovery or absorb with appropriate material
		 Sweep or shovel spills into appropriate container for disposal
		 Do not absorb with combustible materials (sawdust,)
7	Handling and storage	
	Technical measures	 Handle in accordance with good industrial hygiene and safety procedures
	Prevention of worker exposure	 Where exposure trough inhalation may occur from use, approved respiratory
		protection equipment is recommended.
		Ensure prompt removal from eyes, skin and clothing.
		 Wash hands and other exposed areas with mild soap and water before eating,
	<u></u>	drinking, smoking and when leaving work
	Storage recommended	 Provide local exhaust or general room ventilation to minimize dust and/or vapor
		concentrations.
		 Keep containers closed when not in use Keep temperature not exceeding 50°C
		 Keep in fireproof place
		 Keep only in the original container in a cool, well ventilated place
		 Use special care to avoid static electric charges
	Incompatible materials	 Acids, Reducing agents, Organic compounds, Wood, Paper
	Packaging materials recommended	 Polyester, Polyethylene, Stainless steel, (Small quantities: Glass)
	Packaging materials NOT recommended	 Steel, Copper, Copper and its alloys, Aluminum and its alloys, Rubber

IN ACCORDANCE WITH THE REACH-ENACTMENT (EG) nr. 1907/2006, art.31 appendix II.

Printing date Compiled by Date of issue Reference number Reason for revision

: 2010-11-29 : eOx International by Product : EOXIDE LQ 75 -A : 2010-07-22 Revision :1 : N-38957 Revision number :001 : General revision Page : 2



	-			
8	Exposure Controls / Personal Protection			
Respiratory protection Occupational Exposure Limits		 No special respiratory protection equipment is recommended under normal conditions of anticipated use with adequate ventilation Chlorine dioxide Limit value (Belgium) 0,1 ppm (0,28 mg/m3((2007) Short time value (Belgium): 0,3 ppm (0,84 mg/m3) (2007) 		
	Eye Protection	Chemical goggles or face shield with safety glasses		
	Skin Protection	 Depending on the conditions of use, protective gloves, apron, boots, head and face protection should be worn. PVC gloves, Neoprene, use nitrilic rubber gloves 		
	Industrial Hygiene	 Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Avoid all unnecessary exposure. Ensure prompt removal from eyes, skin and clothing 		
9	Physical/Chemical Properties			
	Physical State / Appearance	• Liquid		
	Color	Slightly yellow to green		
	Odor	Characteristic		
	Decomposition temperature	• >170°C		
	Specific Gravity / Density (20°) Solubility in water pH value	1.20 g/cm ³ complete >12. 20°C		
10	Stability and Reactivity			
	Stability and Reactivity Hazardous reactions Hazardous Decomposition Products Conditions to Avoid	 Product is stable under normal temperature and pressures Store away from heat/moisture Reacts with Acids: releasing chlorine dioxide (CLO2) Thermal decomposition (dry powder) > 180°C Thermal decomposition generates: chlorine dioxide, chlorates Temperature not exceeding 50°C Store away from heat/moisture 		
	Materials to avoid	 Acids, Organic compounds, Combustibles, oil reducing agents 		
11	Toxicological information Acute Toxicity Rat oral LD50 (mg/kg) Rabbit dermal LD50 (mg/kg) Rabbit dermal LD50 Rat inhalation LC50 (mg/l/4h)	 200 to 2000 OECD 401 Harmful if swallowed None OECD 405 Non - Harmful in contact with skin No data available Irritating to respiratory system 		
	Chronic toxicity Ingestion Carcinogenicity Tetratogenicity On ingredients	 Death >0,3 mg/l No - Toxic > 10 mg/kg/rat/3 month(s) No significant hazards No significant hazards See heading information on ingredients 		
12	Ecological information Water toxicity 96-Hour-LC50 LC50-96 Hour - fish 48 H-CE50-Daphnia magna (mg/l)	 Avoid release to the environment (Selenastrum capricornutum) = 1mg/l 105 to 500 0,026 mg/l 		
	ng date : 2010-11-29	HE REACH-ENACTMENT (EG) nr. 1907/2006, art.31 appendix II.		
Comni	led by :eOx International by	Product · EOXIDE LO 75 - A		

Printing date	: 2010-11-29		
Compiled by	: eOx International bv	Product	: EOXIDE LQ 75 -A
Date of issue	: 2010-07-22	Revision	:1
Reference number	: N-38957	Revision number	:001
Reason for revision	: General revision	Page	: 3



	WGK class (Germany)	▶ 2	
	On ingredients	 See heading information on ingredients 	
	LC50 72h Algue (mg/l)	 No data available 	
13	Disposal Considerations		
	Waste Information	 Removing of residues 	Removal as waste according to local and national prescriptions
		 Polluted Packaging 	Removal as waste according to local and national prescriptions
	Treatment of dirty packaging	After last use, the packaging should be totally empty and closed. The used packing is or suitable for the packing of this product. When the packing is consigned, it should be brought back by the supplier.	

14	Transport information			
	ADR			
	UN-number			
	Proper shipping name	Chlorite solution		
	ADR Class / Packing group	8, II		
	IATA/ICAO			
	UN-number	1908		
	Proper shipping name	Chlorite solution		
	IATA Class / Packing group	8, II		
	IMDG			
	UN-number	1908 CHLORITE SOLUTION, 8, II, MARINE POLLUTANT		
	Proper shipping name	Chlorite solution		
	IMO Class / Packing group	8, II		
	EmS-N°	F-A, S-B		
15	Regulatory Information			
	Labeling Marks According to EC-			
	Directives 67/548/EECs	recent adaptation). The data mentioned at the bottom are recommended by the producer.		
	Recognition Numbers and Hazard Symbols			
		UN 1908 Harmful		
	Content	Sodium Chlorite solution		
	R-Phrases	 Harmful if swallowed 		
		 31 Contact with acids liberates very toxic gas 		
		 A1 Risk of serious damages to eyes 		
		•		
	S-Phrases	14 Keep away from reducing materials, acids, bases and salts of heavy metals.		
		17 Keep away from combustible material		
		26 In case of contact with eyes, rinse immediately with plenty of water and seek		
		medical advice		
		36/37/39 Wear suitable protective clothing, gloves and eye/face protection		

IN ACCORDANCE WITH THE REACH-ENACTMENT (EG) n) nr. 1907/2006, art.31 appendix II.
---	--------------------------------------

Page

Printing date Compiled by Date of issue Reference number Reason for revision

: General revision

: 2010-11-29 : EOXIDE LQ 75 -A : eOx International bv Product Revision : 2010-07-22 :1 :001 : N-38957 Revision number

: 4



16 Other Information	This safety data sheet has been drawn up in accordance with THE REACH-ENACTMENT (EG) nr. 1907/2006, art.31 appendix II. This safety data sheet is exclusively made for industrial/professional use.
	Full text of any R phrases referred to under heading 2:
	R8Contact with combustible material may cause fireR22Harmful if swallowedR23Toxic by inhalationR24Toxic in contact with skinR31Contact with acids liberates toxic gasR34Causes burns
	This information is to our knowledge correct and complete on the date of issue of this safety data sheet. The information only concerns the product and does not give any guarantee for the quality and the completeness of the properties of the product, or in case of mixing or using in any other process. It remains the responsibility of the user to assure himself that the information is suitable and complete concerning the special use he makes of the product.
	We denies all responsibility for loss or damage resulting from the use of these data.
Extra Remarks	

IN ACCORDANCE WITH THE REACH-ENACTMENT (EG) nr. 1907/2006, art.31 appendix II.

Printing date Compiled by Date of issue Reference number Reason for revision : 2010-11-29 : eOX International bv Product : EOXIDE LQ 75 - A : 2010-07-22 Revision : 1 : N-38957 Revision number : 001 : General revision Page : 5