

### SAFETY DATA SHEET

# **CHROMIC ACID**

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1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY					
Product code	C10				
Product name	CHROMIC ACID				
Company	LINDCHEM LTD 27-30 NORTH RIVI GREAT YARMOU NORFOLK NR30 1SH	ER ROAD FH			
Telephone	00 44 (0)1493 8503	03			
Fax	00 44 (0)1493 3309	09			
Emergency telephone	01493 850303 UK T	`ransport only			
number					
2. COMPOSITION / INFORMATION	<b>ON INGREDIENTS</b>				
Hazardous ingredients					
Chromium (VI) trioxide		Conc. 90 - 100%	CAS 1333-82-0	EINECS 215-607-8	Symbols/Risk phrases O; R9 Carc Cat 1; R45 Muta Cat 2; R46 Repr Cat 3; R62 T+; R26 T; R24/25-48/23 C; R35 R42/43 N; R50/53
3. HAZARDS IDENTIFICATION					
Main hazards	Explosive when mixe swallowed. Very toxi inhalation and skin o Toxic: danger of ser Very toxic to aquatio environment. Possib	ed with combustible ic by inhalation. Ca contact. May cause o ious damage to heal c organisms, may ca le risk of impaired f	material. Toxic in o uses severe burns. N cancer. May cause f th by prolonged exp use long-term adve fertility.	contact with skin a May cause sensitis: neritable genetic d posure through inl rse effects in the a	and if ation by amage. nalation. quatic
4. FIRST AID MEASURES					
Eye contact	May cause irritation holding the eyelids o	to eyes. Rinse imm pen. Seek medical a	ediately with plenty ttention if irritation	of water for 15 m or symptoms per	inutes sist.
Skin contact	Toxic in contact with plenty of soap and w	n skin. Remove cont vater. Seek medical a	aminated clothing. attention.	Wash off immedia	tely with
Ingestion	Toxic if swallowed. Ingestion is irritating to the respiratory tract and may cause damage to the central nervous system. DO NOT INDUCE VOMITING. Drink 1 to 2 glasses of water. Rinse mouth thoroughly. If swallowed, seek medical advice immediately and show this container or label.				
Inhalation	Toxic by inhalation. of the respiratory sy the exposed person t provide artificial res	Inhalation may cau stem. Inhalation of o fresh air. If breatl piration. Seek medi	se coughing, tightno vapour may cause s hing is difficult give cal attention.	ess of the chest and hortness of breath oxygen. If breath	d irritation 1. Move ing stops,

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5. FIRE FIGHTING MEASURES	
Extinguishing media	Use as appropriate: carbon dioxide (CO2). Use extinguishing media appropriate to the
	surrounding fire conditions, dry chemical, foam.
Fire hazards	Burning produces irritating, toxic and obnoxious fumes. Keep away from combustible materials.
Protective equipment	Self-contained breathing apparatus. Wear chemical protective clothing.
6. ACCIDENTAL RELEASE MEASU	RES
Personal precautions	Evacuate personnel to a safe area. Ensure adequate ventilation of the working area.
	Avoid raising dust. Wear suitable protective equipment. Eliminate all sources of ignition.
Environmental precautions	Do not allow product to enter drains. Prevent further spillage if safe.
Clean up methods	Avoid raising dust. Sweep up. Transfer to suitable, labelled containers for disposal.
	Neutralise with ferrous sulphate soln or sodium metabisulphite soln to reduce hexa
	chromium and adjust pH to 8.5 with sodium cardonate or sodium hydroxide soln.
7. HANDLING AND STORAGE	
Handling	Avoid contact with eyes and skin. Avoid formation of dust. Ensure adequate ventilation
	of the working area. Wear suitable protective equipment.
Storage	Keep containers tightly closed. Keep in a cool, dry, well ventilated area. Avoid contact
	with: strong oxidising agents. Avoid contact with: foodstuffs, flammable materials and organic substances.
9 EVENCIDE CONTROL C ( DED CO	
o. EAPOSURE CONTROLS / PERSO	
Engineering measures	Ensure adequate ventilation of the working area.
Occupational exposure	COSHH - Due consideration should be given to your control systems and the need for
Protoctivo oquinmont	assessment.
I Intective equipment	working place, depending on concentration and quantity of the hazardous substances
	handled. The resistance of the protective equipment to chemicals should be
	ascertained with the respective supplier.
Respiratory protection	Suitable half mask respirator with filter P3 (EN 143)
Hand protection	Chemical resistant gloves (PVC)
Eye protection	Approved safety goggles.
Protective clothing.	Protective clothing. Suitable foot protection e.g. boots.
9. PHYSICAL AND CHEMICAL PRO	PERTIES
Description	Solid.
Colour	Red.
Odour	Odourless.
рН	ca. 1 @ 10 g/l H2O @ 20 C
Boiling point	196°C
Flash point	250°C
Relative density	bulk density: Ca. 1400 kg/m3. 2.7 g/ml
Water solubility	soluble in water. 62.5% w/w @ 20 C, 61.7% g/100 ml @ 0 C and 67.45 g/100 ml @ 100
·	С.
Melting point	197°C

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10. STABILITY AND REACTIVITY			
Stability	Stable under normal conditions.		
Conditions to avoid	Heat.		
Materials to avoid	Reducing agents. Acids. Ammonia. Amines. Organic materials. Finely powdered		
Transform de la constat	metals. Sulphur oxides. Zinc. Acid anhydrides. Oxidising agents.		
Hazardous decomposition products	Burning produces irritating, toxic and obnoxious fumes.		
11. TOXICOLOGICAL INFORMATIC	DN		
Toxicological information			
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CHROMIC ACID	Oral Rat LD50 = 52 mg/kg		
	Dermal Rabbit LD50 = 57 mg/kg		
	Inhalation Kat LCS0/4 $h = 0.217 \text{ mg/l}$		
Chromium (VI) trioxide	Oral Mouse LD50 = 127 mg/kg		
	Oral Rat LD50 = 80 mg/kg		
The contract			
Eye contact	Burning, redness. Causes severe inflammation and may damage the cornea. Corrosive.		
Skin contact	Burning, redness. Harmful if absorbed through the skin.		
Ingestion	Abdominal pain, nausea, vomiting. Toxic if swallowed.		
Inhalation	Irritating to respiratory system.		
Repeated or prolonged	Danger of serious damage to health by prolonged exposure. Possible systemic effects.		
caposure	Repeated or prolonged exposure may cause damage to liver, kidneys and central nervous		
	system.		
Carcinogenic effects	May cause cancer.		
Mutagenic effects	May cause heritable genetic damage. Possible risk of irreversible effects.		
Reproductive toxicity	Possible risk of impaired fertility.		
Sensitization	May cause sensitisation by inhalation and skin contact.		
12. ECOLOGICAL INFORMATION			
Ecotoxicity			
CHROMICACID	Dephysical $C_{50}/(8h = 0.01 \text{ prom})$		
	Fish LC50/96h = 52 ppm		
	Fish LC50/96h = 40 mg/l mg/l		
Bioaccumulation	Does not bioaccumulate.		
Further information	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic		
	environment.		
13. DISPOSAL CONSIDERATIONS			
General information	Dispose of in compliance with all local and national regulations.		

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14. TRANSPORT INFORMATION		
ADR/RID		
Proper Shipping	CHROMIUM	UN 1463
Name	TRIOXIDE,	
Packing group	II	Class 5.1
Hazard ID	58	
IMDG		
UN	1463	Packing group II
Class	5.1	Marine pollutant NO
EmS Code	F-A S-Q	
IATA		
Class	5.1	Subsidiary risk 6.1+8
<b>Packing Instruction</b>	511	Maximum quantity 25 kg
(Cargo)		
<b>Packing Instruction</b>	508	Maximum quantity 5 kg
(Passenger)		
UN	1463	Packing group II
15. REGULATORY INFORMAT	ION	
Labelling	The product is classified	in accordance with 67/548/EEC.
Symbols	O - Oxidizing; T+ - Ver	y toxic; C - Corrosive; N - Dangerous for the environment

Risk phrases	R9 - Explosive when mixed with combustible material.
	R24/25 - Toxic in contact with skin and if swallowed.
	R26 - Very toxic by inhalation.
	R35 - Causes severe burns.
	R42/43 - May cause sensitisation by inhalation and skin contact.
	R45 - May cause cancer.
	R46 - May cause heritable genetic damage.
	R48/23 - Toxic: danger of serious damage to health by prolonged exposure through
	inhalation.
	R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the
	aquatic environment.
	R62 - Possible risk of impaired fertility.
Safety phrases	S45 - In case of accident or if you feel unwell, seek medical advice immediately (show
	the label where possible).
	S53 - Avoid exposure - obtain special instructions before use.
	S60 - This material and its container must be disposed of as hazardous waste.
	S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.
Further information	Restricted to professional users.

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16. OTHER INFORMATION			
Text of risk phrases in	R24/25 - Toxic in contact with skin and if swallowed.		
Section 2	R26 - Very toxic by inhalation.		
	R35 - Causes severe burns.		
	R42/43 - May cause sensitisation by inhalation and skin contact.		
	R45 - May cause cancer.		
	R46 - May cause heritable genetic damage.		
	R48/23 - Toxic: danger of serious damage to health by prolonged exposure through		
	inhalation.		
	R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the		
	aquatic environment.		
	R62 - Possible risk of impaired fertility.		
	R9 - Explosive when mixed with combustible material.		
General information	The following information is provided to conform with article 13 of the EC Directive on		
	Packaging and Packaging Waste 94/62/EC:		
	* Wherever possible we use returnable packaging and pallets. Details of these are on		
	our Sales Contracts		
	* For any non-returnable packaging the cost of disposal is at your expense, but we do		
	have a list of reprocessors available		
	* In most cases, but not all, we are able to supply products in returnable packaging but		
	the additional cost of this will be for the customers expense. Please ask for details with		
	your specific requirements		
	* Any products supplied in returnable packaging is clearly marked to this effect.		
Further information	The information supplied in this Safety Data Sheet is designed only as guidance for the		
	safe use, storage and handling of the product. This information is correct to the best of		
	our knowledge and belief at the date of publication however no guarantee is made to its		
	accuracy. 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 other		
	process.		

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