

CHROMIUM (iii) CHLORIDE 6hydr Safety Data Sheet According to SANS 10234:2008 and SANS 11014:2010

Issue date:06/03/2020 Revision date: 06/03/2025

Version: 1.0

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SECTION 1: Identification	
1.1. Product identifier	
Trade name	: CHROMIUM (iii) CHLORIDE 6hydr
EC-No.	: 233-038-3
CAS-No.	: 10060-12-5
UN-No. (ADR)	: 1759
Product code	: 103085xxx
Formula	: CrCl3.6H2O
1.2. Relevant identified uses of the	substance or mixture and uses advised against
Recommended uses and restrictions	: For laboratory use only
1.3. Supplier's details	
Labchem (Pty)Ltd 6 Wakefield Road Founders Hill 1609 Johannesburg - South Africa T +27 11 452 1116 - F +27 86 588 0293 techlab@labchem.co.za - www.labchem.co	<u>).za</u>
1.4. Emergency telephone number	
Emergency number	: +27 11 452 1116
SECTION 2: Hazards identificati	on
2.1. Classification of the substance	e or mixture
Classification according to the United N	ations GHS
Acute toxicity (oral), Category 4	H302
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation,	H319
Category 2A Hazardous to the aquatic environment — Acute Hazard, Category 2 Hazardous to the aquatic environment — Chronic Hazard, Category 2	H401 H411
Full text of H statements : see section 16	
2.2. Label elements	
Labelling according to the United Nation	ns GHS
Hazard pictograms (GHS-ZA)	GHS07 GHS09
Signal word (GHS-ZA)	: Warning
Hazard statements (GHS-ZA)	: H302 - Harmful if swallowed. H315 - Causes skin irritation. H319 - Causes serious eye irritation. H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements (GHS-ZA)	 P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. P302+P352 - IF ON SKIN: Wash with plenty of water. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P321 - Specific treatment (see supplemental first aid instruction on this label). P330 - Rinse mouth. P332+P313 - If skin irritation occurs: Get medical advice/attention. P332+P313 - If eye irritation persists: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse. P391 - Collect spillage. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

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According to SANS 10234:2008 and SANS 11014:2010

2.3. Other hazards

Adverse physicochemical, human health and environmental effects

: Harmful if swallowed, Causes skin irritation, Causes serious eye irritation, Toxic to aquatic life, Toxic to aquatic life with long lasting effects.

environmental effects	life, l c	oxic to aquatic life with long lasting	effects.	
SECTION 3: Composition/information	on on in	gredients		
3.1. Substances				
Substance identification codes: See section 1.1				
Name		Product identifier	%	Classification according to the United Nations GHS
chromium(III)chloride, hexahydrate (Main constituent)		(CAS-No.) 10060-12-5	≥ 97	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Full text of H-statements: see section 16				
3.2. Mixtures				
Not applicable				
SECTION 4: First aid measures				
4.1. Description of first aid measures				
First-aid measures general	arrest with la Vomit warm physi	k the vital functions. Unconscious: t: artificial respiration or oxygen. C aboured breathing: half-seated. Vi- ting: prevent asphyxia/aspiration p ing up). Keep watching the victim. cal strain. Depending on the victim r if you feel unwell.	ardiac arrest: perform ctim in shock: on his b neumonia. Prevent co Give psychological a	resuscitation. Victim conscious back with legs slightly raised. boling by covering the victim (no id. Keep the victim calm, avoid
First-aid measures after inhalation		ove person to fresh air and keep co espiratory problems: consult a doo		ng. Remove the victim into fresh
First-aid measures after skin contact	agent with p	n immediately with lots of water. So ts. Remove clothing before washin blenty of water. Take off contamina e/attention.	ng. Take victim to a do	octor if irritation persists. Wash skin
First-aid measures after eye contact	apply cautio	with water. Remove contact lense neutralizing agents. Take victim to busly with water for several minute nue rinsing. If eye irritation persists	o an ophthalmologist i s. Remove contact le	f irritation persists. Rinse nses, if present and easy to do.
First-aid measures after ingestion	docto	e mouth with water. Call Poison Inf r/medical service if you feel unwel e mouth. Call a poison center or a d	I. Ingestion of large qu	uantities: immediately to hospital.
4.2. Most important symptoms and effe	cts, both	acute and delayed		
Symptoms/effects after inhalation		OWING SYMPTOMS MAY APPE n/oedema. Risk of lung oedema.	AR LATER: Respirato	ory difficulties. Possible laryngeal
Symptoms/effects after skin contact	: No ef	fects known. Irritation.		
Symptoms/effects after eye contact	: No ef	fects known. Eye irritation.		
Symptoms/effects after ingestion	: Irritati	ion of the gastric/intestinal mucosa	а.	
Chronic symptoms	: Skin ı	rash/inflammation.		
Potential adverse human health effects and symptoms		ful if swallowed. Not irritant to skin mg/kg). Not irritant to eyes.	n. Practically non-toxic	in contact with skin (LD50 skin >
4.3. Indication of any immediate medica	al attentio	n and special treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media	: Adap Foar	t extinguishing media to the enviro	onment for surrounding	g fires. Water spray. Dry powder.

			Foam.
5.2.	5.2. Special hazards arising from the substance or mixture		
Fire haza	ard	:	DIRECT FIRE HAZARD: Non combustible. INDIRECT FIRE HAZARD: Reactions involving a fire hazard: see "Reactivity Hazard".
Hazardo fire	us decomposition products in case of	:	On burning: release of toxic and corrosive gases/vapours (chlorine).
5.3.	Advice for firefighters		
Precautio	onary measures fire	:	Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: have neighbourhood close doors and windows.

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Firefighting instructions	 Dilute toxic gases with water spray. Take account of toxic/corrosive precipitation water. Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it.
Protection during firefighting	: Heat/fire exposure: compressed air/oxygen apparatus. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release m	leasures
6.1. Personal precautions, protective	equipment and emergency procedures
No additional information available	
6.1.1. For non-emergency personnel	
Protective equipment	: Gloves. Face shield. Protective clothing. Dust cloud production: compressed air/oxygen apparatus. Dust cloud production: dust-tight suit.
Emergency procedures	: Ventilate spillage area. Mark the danger area. Prevent dust cloud formation. No naked flames Wash contaminated clothes. In case of reactivity hazard: consider evacuation. Avoid contact with skin and eyes.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
	bil and water pollution. Prevent spreading in sewers.
6.3. Methods and material for contair	•
For containment	: Contain released product, pump into suitable containers. Plug the leak, cut off the supply. Da up the solid spill. Knock down/dilute dust cloud with water spray. Collect spillage.
Methods for cleaning up	: Mechanically recover the product. Stop dust cloud by covering with sand/earth. Neutralize spi with powdered limestone/sodium bicarbonate or slaked lime. Scoop solid spill into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess o water. Take collected spill to manufacturer/competent authority. Wash clothing and equipmer after handling.
	0
Other information	: Dispose of materials or solid residues at an authorized site.
Other information SECTION 7: Handling and storage	: Dispose of materials or solid residues at an authorized site.
	: Dispose of materials or solid residues at an authorized site.
SECTION 7: Handling and storage	: Dispose of materials or solid residues at an authorized site.
SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling	 Dispose of materials or solid residues at an authorized site. Ensure good ventilation of the work station. Avoid raising dust. Keep away from naked flames/heat. Measure the concentration in the air regularly. Carry operations in the open/undol local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Keep contained
SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling Hygiene measures	 Dispose of materials or solid residues at an authorized site. Ensure good ventilation of the work station. Avoid raising dust. Keep away from naked flames/heat. Measure the concentration in the air regularly. Carry operations in the open/undel local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Keep contained tightly closed. Avoid contact with skin and eyes. Wear personal protective equipment. Observe very strict hygiene - avoid contact. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, inclusion	 Dispose of materials or solid residues at an authorized site. Ensure good ventilation of the work station. Avoid raising dust. Keep away from naked flames/heat. Measure the concentration in the air regularly. Carry operations in the open/undel local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Keep contained tightly closed. Avoid contact with skin and eyes. Wear personal protective equipment. Observe very strict hygiene - avoid contact. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
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SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, inclusion Storage conditions Storage area	 Dispose of materials or solid residues at an authorized site. Ensure good ventilation of the work station. Avoid raising dust. Keep away from naked flames/heat. Measure the concentration in the air regularly. Carry operations in the open/undel local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Keep containent tightly closed. Avoid contact with skin and eyes. Wear personal protective equipment. Observe very strict hygiene - avoid contact. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Uding any incompatibilities Store in a well-ventilated place. Keep cool. Store in a dry area. Keep container in a well-ventilated place. Keep out of direct sunlight. Measurement
SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, inclustorage conditions	 Dispose of materials or solid residues at an authorized site. Ensure good ventilation of the work station. Avoid raising dust. Keep away from naked flames/heat. Measure the concentration in the air regularly. Carry operations in the open/undel local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Keep contained tightly closed. Avoid contact with skin and eyes. Wear personal protective equipment. Observe very strict hygiene - avoid contact. Wash contaminated clothing before reuse. Do no eat, drink or smoke when using this product. Always wash hands after handling the product. uding any incompatibilities Store in a well-ventilated place. Keep cool. Store in a dry area. Keep container in a well-ventilated place. Keep out of direct sunlight. Meat the legal requirements.
SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, inclu Storage conditions Storage area Incompatible materials	 Dispose of materials or solid residues at an authorized site. Ensure good ventilation of the work station. Avoid raising dust. Keep away from naked flames/heat. Measure the concentration in the air regularly. Carry operations in the open/undel local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Keep contained tightly closed. Avoid contact with skin and eyes. Wear personal protective equipment. Observe very strict hygiene - avoid contact. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. uding any incompatibilities Store in a dry area. Keep container in a well-ventilated place. Keep out of direct sunlight. Meet the legal requirements. May be corrosive to metals. KEEP SUBSTANCE AWAY FROM: heat sources. KEEP SUBSTANCE AWAY FROM: oxidizing agents. reducing agents. water/moisture.
SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, inclu Storage conditions Storage area Incompatible materials Heat and ignition sources	 Dispose of materials or solid residues at an authorized site. Ensure good ventilation of the work station. Avoid raising dust. Keep away from naked flames/heat. Measure the concentration in the air regularly. Carry operations in the open/undel local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Keep contained tightly closed. Avoid contact with skin and eyes. Wear personal protective equipment. Observe very strict hygiene - avoid contact. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. uding any incompatibilities Store in a dry area. Keep container in a well-ventilated place. Keep out of direct sunlight. Meet the legal requirements. May be corrosive to metals. KEEP SUBSTANCE AWAY FROM: heat sources.
SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, inclus Storage conditions Storage area Incompatible materials Heat and ignition sources Information on mixed storage	 Dispose of materials or solid residues at an authorized site. Dispose of materials or solid residues at an authorized site. Ensure good ventilation of the work station. Avoid raising dust. Keep away from naked flames/heat. Measure the concentration in the air regularly. Carry operations in the open/undelocal exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Keep contained tightly closed. Avoid contact with skin and eyes. Wear personal protective equipment. Observe very strict hygiene - avoid contact. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. uding any incompatibilities Store in a dry area. Keep container in a well-ventilated place. Keep out of direct sunlight. Meet the legal requirements. May be corrosive to metals. KEEP SUBSTANCE AWAY FROM: heat sources. KEEP SUBSTANCE AWAY FROM: oxidizing agents. reducing agents. water/moisture. SPECIAL REQUIREMENTS: closing. watertight. dry. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.

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South Africa - Occupational Exposure Limits (Recommended Limits)	
omium III compounds - as Cr	
ŋ/m³	
ernment Notice. R: 1179	
J	

8.2. Appropriate engineering controls	
Appropriate engineering controls	: Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment.
Environmental exposure controls	

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According to SANS 10234:2008 and SANS 11014:2010

Individual protection measures, such as personal protective equipment (P

Hand protection	: Gloves

Eye protection

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- Skin and body protection
- : Face shield. In case of dust production: protective goggles

: Dust production: dust mask with filter type P2

- rotection : Protective clothing. In case
 - : Protective clothing. In case of dust production: head/neck protection. In case of dust production: dustproof clothing

Respiratory protection

Personal protective equipment symbol(s):



Exposure limit values for the other components

8.4. Exposure limit values for the other	components
No additional information available	
SECTION 9: Physical and chemical	properties
9.1. Information on basic physical and o	chemical properties
Physical state	: Solid
Appearance	: Crystalline solid.
Molecular mass	: 266.45 g/mol
Colour	: Green to violet-black.
Odour	: Odourless.
Odour threshold	: No data available
рН	: 2.4 (0.2 mol/l, 20 °C)
pH solution	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: Not applicable (sublimates)
Freezing point	: Not applicable
Boiling point	: Not applicable (sublimates)
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: ≥ 1300 °C (Anhydrous form, 1013 hPa)
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: < 0.1 hPa (20 °C)
Vapour pressure at 50 °C	: No data available
Relative vapour density at 20 °C	: Not applicable
Relative density	: 1.8 (20 °C)
Relative density of saturated gas/air mixture	: No data available
Density	: 1760 kg/m³ (20 °C)
Relative gas density	: No data available
Solubility	: Soluble in water. Soluble in ethanol. Soluble in acetone. Water: 59 g/100ml (25 °C)
Partition coefficient n-octanol/water (Log Pow)	: No data available
Partition coefficient n-octanol/water (Log Kow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: Not applicable
Lower explosive limit (LEL)	: No data available
Upper explosive limit (UEL)	: No data available
9.2. Other information	
Sublimation point	: 950 °C (1013 hPa, Anhydrous form)
VOC content	: Not applicable (inorganic)
Other properties	: Hygroscopic.

CHROMIUM (iii) CHLORIDE 6hydr Safety Data Sheet According to SANS 10234:2008 and SANS 11014:2010

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According to SANS 10234:2008 and SANS 11014:2010			
SECTION 10: Stability and reactivity			
10.1. Reactivity			
Reacts with (some) compounds: heat release resulting in increased fire or explosion risk.			
10.2. Chemical stability			
Hygroscopic.			
10.3. Possibility of hazardous reactions			
No dangerous reactions known under normal cond	No dangerous reactions known under normal conditions of use.		
10.4. Conditions to avoid			
None under recommended storage and handling of	conditions (see section 7).		
10.5. Incompatible materials			
No additional information available			
10.6. Hazardous decomposition products			
Under normal conditions of storage and use, haza	rdous decomposition products should not be produced.		
SECTION 11: Toxicological information	on		
11.1. Information on toxicological effects			
Acute toxicity (oral)	: Harmful if swallowed.		
Acute toxicity (dermal)	: Not classified		
Acute toxicity (inhalation)	: Not classified		
CHROMIUM (iii) CHLORIDE 6hydr (10060-12-5	5)		
LD50 oral rat	1475 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Read-across, Oral)		
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Read- across, Anhydrous form, Dermal, 14 day(s))		
Skin corrosion/irritation	: Causes skin irritation.		
	pH: 2.4 (0.2 mol/l, 20 °C)		
Serious eye damage/irritation	: Causes serious eye irritation.		
	pH: 2.4 (0.2 mol/l, 20 °C)		
Respiratory or skin sensitisation	: Not classified		
Germ cell mutagenicity	: Not classified		
Carcinogenicity	: Not classified		
Reproductive toxicity	: Not classified		
STOT-single exposure	: Not classified		
•	: Not classified		
Aspiration hazard	: Not classified		
Potential adverse human health effects and symptoms	: Harmful if swallowed. Not irritant to skin. Practically non-toxic in contact with skin (LD50 skin > 2000 mg/kg). Not irritant to eyes.		

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: Dangerous for the environment. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.
Ecology - air	: Not included in the list of substances which may contribute to the greenhouse effect (IPCC). Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014). Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).
Ecology - water	: Toxic to crustacea. Harmful to crustacea with long lasting effects. Harmful to fishes. Toxic to fish, with long lasting effects. Inhibition of activated sludge. Toxic to algae. pH shift.
Hazardous to the aquatic environment, short- erm (acute)	: Toxic to aquatic life.
Hazardous to the aquatic environment, long- erm (chronic)	: Toxic to aquatic life with long lasting effects.
CHROMIUM (iii) CHLORIDE 6hydr (10060-12	-5)
LC50 fish 1	11.2 mg/l (EPA 660/3 - 75/009, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, Chrome)
EC50 Daphnia 1	3.24 mg/l (Equivalent or similar to OECD 202, 48 h, Daphnia sp., Static system, Fresh water, Experimental value, Chrome)
ErC50 (algae)	2 mg/l (Equivalent or similar to OECD 201, 96 h, Scenedesmus sp., Fresh water, Experimental value, Nominal concentration)
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CHROMIUM (iii) CHLORIDE 6hydr (10060-12-5)			
BCF other aquatic organisms 1	86 (168 day(s), Mytilus edulis, Flow-through system, Marine water, Experimental value, Fresh weight)		
12.2. Persistence and degradability			
CHROMIUM (iii) CHLORIDE 6hydr (10060-12-5)			
Persistence and degradability	Biodegradability: not applicable.		
Chemical oxygen demand (COD)	Not applicable (inorganic)		
ThOD	Not applicable (inorganic)		
12.3. Bioaccumulative potential	12.3. Bioaccumulative potential		
CHROMIUM (iii) CHLORIDE 6hydr (10060-12-5)			
BCF other aquatic organisms 1	86 (168 day(s), Mytilus edulis, Flow-through system, Marine water, Experimental value, Fresh weight)		
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).		
12.4. Mobility in soil			
CHROMIUM (iii) CHLORIDE 6hydr (10060-12-5)			
Mobility in soil	No additional information available		
Ecology - soil	Adsorbs into the soil.		
12.5. Other adverse effects			
Ozone	Not classified		
Other adverse effects :	No additional information available		

SECTION 13: Disposal considerations		
13.1. Disposal methods		
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.	
Product/Packaging disposal recommendations	: Do not discharge into drains or the environment. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle/reuse. Remove to an authorized dump (Class I). Precipitate/make insoluble.	
Additional information	: Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.	

SECTION 14: Transport information

In accordance with SANS / IMDG / IATA

SANS	IMDG	ΙΑΤΑ
14.1. UN number		
1759	1759	1759
14.2. Proper Shipping Name		
CORROSIVE SOLID, N.O.S.	CORROSIVE SOLID, N.O.S.	Corrosive solid, n.o.s.
14.3. Transport hazard class(es)		
8	8	8
	8	Not applicable
14.4. Packing group		
III	III	111
14.5. Environmental hazards		
Dangerous for the environment : Yes	Dangerous for the environment : No	Dangerous for the environment : No
	:	
No supplementary information available		
14.6. Special precautions for user		

- SANS

Transport regulations (UN)	:	Subj
Special provisions (SANS)	:	223,

Subject to the provisions

: 223, 274

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

Limited quantities (SANS)	: 5 kg	
Limited quantities (SANS)	: 5 kg	
Packagings, large packagings and IBCs Packing instructions (SANS)	: P002, IBC08, LP02	
Packagings, large packagings and IBCs Special packing instructions (SANS)	: B3	
Portable tank and bulk containers instructions (SANS)	: T1	
Portable tank and bulk container special provisions (SANS)	: TP33	
- IMDG		
Transport regulations (IMDG)	: Subject to the provisions	
Special provisions (IMDG)	: 223, 274	
Limited quantities (IMDG)	: 5 kg	
Excepted quantities (IMDG)	: E1	
Packing instructions (IMDG)	: P002, LP02	
IBC packing instructions (IMDG)	: IBC08	
IBC special provisions (IMDG)	: B3	
Tank instructions (IMDG)	: T1	
Tank special provisions (IMDG)	: TP33	
EmS-No. (Fire)	: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE	
EmS-No. (Spillage)	: S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES	
Stowage category (IMDG)	: A	
Properties and observations (IMDG)	: Causes burns to skin, eyes and mucous membranes.	
- IATA		
Transport regulations (IATA)	: Subject to the provisions	
PCA Excepted quantities (IATA)	: E1	
PCA Limited quantities (IATA)	: Y845	
PCA limited quantity max net quantity (IATA)	: 5kg	
PCA packing instructions (IATA)	: 860	
PCA max net quantity (IATA)	: 25kg	
CAO packing instructions (IATA)	: 864	
CAO max net quantity (IATA)	: 100kg	
Special provisions (IATA)	: A3, A803	
ERG code (IATA)	: 8L	
14.7. Transport in bulk according to Anne	x II of MARPOL 73/78 and the IBC Code	
Not applicable		
SECTION 15: Regulatory information		
	tional regulations specific for the product	
Regulatory reference	: SANS 10234:2008; SANS 11014:2010; SANS 10228:2012;SANS 10229:2010; SANS 10232(1,2,4), SANS 10231:2018; Occupational Health and Safety Act 85 of 1993; National	

: SANS 10234:2008; SANS 11014:2010; SANS 10228:2012;SANS 10229:2010; SANS 10232(1,2,4), SANS 10231:2018; Occupational Health and Safety Act 85 of 1993; National Road Traffic Act 93 of 1996.

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Full text of H-statements:

H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H401	Toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects.

SDS South Africa

The data provided in this Safety Data Sheet (SDS) is correct to the best of our knowledge. The data relates to the specific product as named and is ntended as a guide to the safe handling of the product in all its facets. The data may no longer be valid if the product is used in any process or in combination with other products. This SDS is not a quality specification nor any form of guarantee.