

Issue date:03/07/2020 Revision date: 03/07/2025

Version: 1.0

Issue u	
SECTION 1: Identification	
1.1. Product identifier	
Trade name	: ZINC ACETATE 2hydr
CAS-No.	: 5970-45-6
UN-No. (ADR)	: 3077
Product code	: 126010xxx
Formula	: C4H6O4Zn.2H2O
1.2. Relevant identified uses of the su	bstance 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.za	
1.4. Emergency telephone number	
Emergency number	: +27 11 452 1116
CECTION 2. Honorado identification	
SECTION 2: Hazards identification	
2.1. Classification of the substance or	
Classification according to the United Natio	
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	1315
Category 2A	H319 H400 (M=10)
2.2. Label elements	
Labelling according to the United Nations C	HS .
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. H400 - Very toxic to aquatic life.
Precautionary statements (GHS-ZA)	<ul> <li>P264 - Wash hands, forearms and face thoroughly after handling.</li> <li>P270 - Do not eat, drink or smoke when using this product.</li> <li>P273 - Avoid release to the environment.</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.</li> <li>P302+P352 - IF ON SKIN: Wash with plenty of water.</li> <li>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P321 - Specific treatment (see supplemental first aid instruction on this label).</li> <li>P330 - Rinse mouth.</li> <li>P332+P313 - If skin irritation occurs: Get medical advice/attention.</li> <li>P362+P364 - Take off contaminated clothing and wash it before reuse.</li> <li>P391 - Collect spillage.</li> <li>P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.</li> </ul>
2.3. Other hazards	
Adverse physicochemical, human health and environmental effects	: Harmful if swallowed, Causes skin irritation, Causes serious eye irritation, Very toxic to aquatic life.

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According to SANS 10234:2019 and SANS 11014:2010

According to SANS 10234:2019 and SANS 11014:2010	)			
SECTION 3: Composition/information on ingredients				
3.1. Substances				
Substance identification codes: See section 1.	1			
Name		Product identifier	%	Classification according to the United Nations GHS
zinc acetate, dihydrate (Main constituent)		(CAS-No.) 5970-45-6	≥ 99.5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Aquatic Acute 1, H400 (M=10)
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	arres with Vom warn phys	st: artificial respiration or oxyger laboured breathing: half-seated iting: prevent asphyxia/aspiratic ning up). Keep watching the vict	<ul> <li>Cardiac arrest: perform</li> <li>Victim in shock: on his</li> <li>on pneumonia. Prevent of</li> <li>tim. Give psychological</li> </ul>	airway and respiration. Respiratory n resuscitation. Victim conscious back with legs slightly raised. cooling by covering the victim (no aid. Keep the victim calm, avoid hospital. Call a poison center or a
First-aid measures after inhalation		ove person to fresh air and kee Respiratory problems: consult a		ing. Remove the victim into fresh
First-aid measures after skin contact	if irrit	e with water. Soap may be used tation persists. Wash skin with p tion occurs: Get medical advice,	elenty of water. Take off	re washing. Take victim to a doctor contaminated clothing. If skin
First-aid measures after eye contact	Cont pers		alizing agents. Take vic for several minutes. Re	tim to an ophthalmologist if irritation emove contact lenses, if present
First-aid measures after ingestion	Infor unwe	e mouth with water. Immediatel mation Centre (www.big.be/anti ell. Ingestion of large quantities: doctor if you feel unwell.	gif.html). Consult a doc	
4.2. Most important symptoms and eff	ects, both	acute and delayed		
Symptoms/effects after inhalation	: AFT	ER INHALATION OF DUST: Co	ughing. Slight irritation.	
Symptoms/effects after skin contact	: Sligh	t irritation. Irritation.		
Symptoms/effects after eye contact	: Irrita	tion of the eye tissue. Eye irritat	ion.	
Symptoms/effects after ingestion	: Vom	iting. Nausea.		
Potential adverse human health effects and symptoms	: Prac	tically non-toxic if swallowed (LI	D50 oral, rat > 2000 mg	/kg). Causes serious eye irritation.
4.3. Indication of any immediate medic	al attentio	on and special treatment need	led	
Treat symptomatically.				
<b>SECTION 5: Firefighting measures</b>				
5.1. Extinguishing media				
Suitable extinguishing media	: Adap Foar		vironment for surroundi	ng fires. Water spray. Dry powder.
5.2. Special hazards arising from the s	ubstance	or mixture		
Fire hazard		ECT FIRE HAZARD: Non combi	ustible.	
Hazardous decomposition products in case of fire	: Upor	n combustion CO and CO2 are	formed and formation of	f metallic fumes (zinc oxide).
5.3. Advice for firefighters				
Precautionary measures fire	: Expo wind		Exposure to fire/heat: h	ave neighbourhood close doors and
Firefighting instructions	: Take it.	e account of toxic fire-fighting wa	ater. Use water moderat	ely and if possible collect or contain
Protection during firefighting		ble protective equipment. Self-c		ot attempt to take action without aratus. Complete protective

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According to SANS 10234:2019 and SANS 11014:2010

According to SANS 10234:2019 and SANS 11014:2010	)	
SECTION 6: Accidental release mea	asures	
6.1. Personal precautions, protective equipment and emergency procedures		
No additional information available		
6.1.1. For non-emergency personnel		
Protective equipment	: Gloves. Safety glasses. Protective clothing. Dust cloud production: compressed air/oxygen apparatus.	
Emergency procedures	: Ventilate spillage area. Mark the danger area. Prevent dust cloud formation, e.g. by wetting. 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		
	and water pollution. Prevent spreading in sewers.	
6.3. Methods and material for containm	•	
For containment	: Contain released product, pump into suitable containers. Plug the leak, cut off the supply. Dam 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. Scoop solid spill into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.	
Other information	: 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	: Ensure good ventilation of the work station. Avoid raising dust. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Clean contaminated clothing. Do not discharge the waste into the drain. Keep container tightly closed. Avoid contact with skin and eyes. Wear personal protective equipment.	
Hygiene measures	: Observe normal hygiene standards. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.	
7.2. Conditions for safe storage, includ	ling any incompatibilities	
Storage conditions	: Store in a well-ventilated place. Keep cool.	
Storage area	: Store at ambient temperature. Store in a dry area. Keep container in a well-ventilated place. Meet the legal requirements.	
Information on mixed storage	: KEEP SUBSTANCE AWAY FROM: oxidizing agents. (strong) bases.	
Special rules on packaging	: SPECIAL REQUIREMENTS: closing. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.	
Packaging materials	: SUITABLE MATERIAL: wood. glass. cardboard. plastics.	
SECTION 8: Exposure controls/pers	sonal protection	
8.1. Control parameters		
No additional information available		
8.2. Appropriate engineering controls		
Appropriate engineering controls	: Ensure good ventilation of the work station.	
Environmental exposure controls	: Avoid release to the environment.	
8.3. Individual protection measures, su	ich as personal protective equipment (PPE)	
Materials for protective clothing	: GIVE GOOD RESISTANCE: rubber. synthetic material	
Hand protection	: Gloves	
Eye protection	: Safety glasses. In case of dust production: protective goggles. Safety glasses	
Skin and body protection	: Protective clothing	
Respiratory protection	: Dust production: dust mask with filter type P1	
	. Dust production, dust mask war niter type i i	
Personal protective equipment symbol(s):		

8.4. Exposure limit values for the other components

#### No additional information available

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According to SANS 10234:2019 and SANS 11014:2010

According to SANS 10234:2019 and SANS 11014:2010		
SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Solid	
Appearance	: Crystalline solid. Powder.	
Molecular mass	: 219.51 g/mol	
Colour	: White.	
Odour	: Mild odour. Vinegar odour.	
Odour threshold	: No data available	
рН	: 6 – 7 (5 %)	
pH solution	: No data available	
Relative evaporation rate (butylacetate=1)	: No data available	
Relative evaporation rate (ether=1)	: No data available	
Melting point	: 237 °C	
Freezing point	: Not applicable	
Boiling point	: Not applicable	
Flash point	: Not applicable	
Auto-ignition temperature	: Not applicable	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: Non flammable.	
Vapour pressure	: No data available	
Vapour pressure at 50 °C	: No data available	
Relative vapour density at 20 °C	: Not applicable	
Relative density	: 1.7	
Relative density of saturated gas/air mixture	: No data available	
Density	: 1735 kg/m³	
Relative gas density	: No data available	
Solubility	: Soluble in water. Water: 31 g/100ml Ethanol: 3 g/100ml Ether: 0.1 g/100ml	
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		
VOC content	: 0%	
Other properties	: Acid reaction.	

SECTION 10: Stability and reactivity			
10.1. Reactivity			
The product is non-reactive under normal conditions of use, storage and transport.			
10.2. Chemical stability			
Stable under normal conditions.			
10.3. Possibility of hazardous reactions			
No dangerous reactions known under normal conditions of use.			
10.4. Conditions to avoid			
None under recommended storage and handling conditions (see section 7).			
10.5. Incompatible materials			
No additional information available			
10.6. Hazardous decomposition products			
Under normal conditions of storage and use, hazardous decomposition products should not be produced.			

### Safety Data Sheet

According to SANS 10234:2019 and SANS 11014:2010

SECTION 11: Toxicological information		
11.1. Information on toxicological effect	IS	
Acute toxicity (oral)	: Harmful if swallowed.	
Acute toxicity (dermal)	: Not classified	
Acute toxicity (inhalation)	: Not classified	
ZINC ACETATE 2hydr (5970-45-6)		
LD50 oral rat	2460 mg/kg (Rat, Oral)	
Skin corrosion/irritation	: Causes skin irritation.	
	pH: 6 – 7 (5 %)	
Serious eye damage/irritation	: Causes serious eye irritation.	
	pH: 6 – 7 (5 %)	
Respiratory or skin sensitisation	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
STOT-single exposure	: Not classified	
STOT-repeated exposure	: Not classified	
Aspiration hazard	: Not classified	
Potential adverse human health effects and symptoms	: Practically non-toxic if swallowed (LD50 oral, rat > 2000 mg/kg). Causes serious eye irritation.	

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	Dangerous for the environment. Very toxic to aquatic life.
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	Very toxic to crustacea. Very toxic to fishes. Mild water pollutant (surface water). Inhibition of activated sludge. Very toxic to algae. May cause eutrophication at very low concentration.
Hazardous to the aquatic environment, short- : term (acute)	Very toxic to aquatic life.
Hazardous to the aquatic environment, long-term (chronic)	Not classified
ZINC ACETATE 2hydr (5970-45-6)	
EC50 Daphnia 1	0.068 mg/l (48 h, Daphnia magna, Zinc ion)
TLM fish 1	0.88 ppm (96 h, Pimephales promelas, Soft water)
12.2. Persistence and degradability	
ZINC ACETATE 2hydr (5970-45-6)	
Persistence and degradability	No additional information available
12.3. Bioaccumulative potential	
ZINC ACETATE 2hydr (5970-45-6)	
Bioaccumulative potential	No additional information available
12.4. Mobility in soil	
ZINC ACETATE 2hydr (5970-45-6)	
Mobility in soil	No additional information available
12.5. Other adverse effects	
Ozone	Not classified
Other adverse effects	No additional information available

SECTIO	ON 13: Disposal consideration	S
13.1.	Disposal methods	
Waste tre	eatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.

### Safety Data Sheet

According to SANS 10234:2019 and SANS 11014:2010

Product/Packaging disposal recommendations	: 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	<ul> <li>Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.</li> </ul>

#### **SECTION 14: Transport information**

In accordance with SANS / IMDG / IATA

SANS	IMDG	ΙΑΤΑ
14.1. UN number		
3077	3077	3077
14.2. Proper Shipping Name		
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	Environmentally hazardous substance, solid, n.o.s.
14.3. Transport hazard class(es)		
9	9	9
		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		

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- SANS	
Transport regulations (UN)	: Subject to the provisions
Special provisions (SANS)	: 179, 274, 331, 335
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)	: PP12, B3
Portable tank and bulk containers instructions (SANS)	: T1, BK2
Portable tank and bulk container special provisions (SANS)	: TP33
- IMDG	
Transport regulations (IMDG)	: Subject to the provisions
Special provisions (IMDG)	: 274, 335, 966, 967, 969
Limited quantities (IMDG)	: 5 kg
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: LP02, P002
Special packing provisions (IMDG)	: PP12
IBC packing instructions (IMDG)	: IBC08
IBC special provisions (IMDG)	: B3
Tank instructions (IMDG)	: BK1, BK2, BK3, T1
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Fire) EmS-No. (Spillage)	: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE : S-F - SPILLAGE SCHEDULE Foxtrot - WATER-SOLUBLE MARINE POLLUTANTS

### Safety Data Sheet

According to SANS 10234:2019 and SANS 11014:2010

#### - IATA

Transport regulations (IATA)	: Subject to the provisions
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y956
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 956
PCA max net quantity (IATA)	: 400kg
CAO packing instructions (IATA)	: 956
CAO max net quantity (IATA)	: 400kg
Special provisions (IATA)	: A97, A158, A179, A197
ERG code (IATA)	: 9L

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information					
15.1. Safety, health, and environmental national 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 Road Traffic Act 93 of 1996.				
SECTION 16: Other information					
Issue date	: 03/07/2020				

Issue date	: 03/07/2020	
Revision date	: 03/07/2025	
Full text of H-statements:		

H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.

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.