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According to SANS 10234:2019 and SANS 11014:2010 Issue date:23/07/2020 Revision date: 23/07/2025

Version: 1.0

SECTION 1: Identification	
1.1. Product identifier	
Product form	Mixture
Trade name	ALUMINIUM STANDARD SOLUTION (0.5N HCI)
UN-No. (ADR)	3264
Product code :	201056x
1.2. Relevant identified uses of the substa	nce 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
SECTION 2: Hazards identification	
2.1. Classification of the substance or mix	ture
Skin corrosion/irritation, Category 1       H314         Full text of H statements : see section 16       Eabel         2.2.       Label elements         Labelling according to the United Nations GHS         Hazard pictograms (GHS-ZA)	
Signal word (GHS-ZA)	GHS05 : Danger
Hazardous ingredients	<ul> <li>Aluminium chloride, anhydrous; hydrogen chloride, conc=37%, aqueous solution</li> </ul>
Hazard statements (GHS-ZA)	H314 - Causes severe skin burns and eye damage.
Precautionary statements (GHS-ZA)	<ul> <li>P260 - Do not breathe dust/fume/gas/mist/vapours/spray.</li> <li>P264 - Wash hands, forearms and face thoroughly after handling.</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.</li> <li>P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.</li> <li>Rinse skin with water/shower.</li> <li>P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.</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>P310 - Immediately call a POISON CENTER or doctor.</li> <li>P321 - Specific treatment (see supplemental first aid instruction on this label).</li> <li>P363 - Wash contaminated clothing before reuse.</li> <li>P405 - Store locked up.</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	Causes severe skin burns and eye damage.
SECTION 3: Composition/information	on ingredients

### SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures			
Name	Product identifier	%	Classification according to the United Nations GHS
Aluminium chloride, anhydrous	(CAS-No.) 7446-70-0	≤ 5	Skin Corr. 1B, H314 Aquatic Acute 3, H402
hydrogen chloride, conc=37%, aqueous solution	(CAS-No.) 7647-01-0	≤2	Skin Corr. 1, H314

Full text of H-statements: see section 16

SECTION 4: First aid measures         4.1.       Description of first aid measures         First-aid measures general       : Call a physician immediately.         First-aid measures after inhalation       : Remove person to fresh air and keep comfortable for breathing.         First-aid measures after skin contact       : Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.         First-aid measures after eye contact       : Rinse cautiously with water for several minutes. Remove contact lenses, if present and ear do. Continue rinsing. Call a physician immediately.         First-aid measures after ingestion       : Rinse mouth. Do not induce vomiting. Call a physician immediately.         4.2.       Most important symptoms and effects, both acute and delayed         Symptoms/effects after eye contact       : Burns.         Symptoms/effects after ingestion       : Burns.         4.3.       Indication of any immediate medical attention and special treatment needed         Treat symptomatically.       Sectron 5: Firefighting measures         5.1.       Extinguishing media       : Water spray. Dry powder. Foam. Carbon dioxide.         5.2.       Special hazards arising from the substance or mixture         Hazardous decomposition products in case of fire       : Toxic fumes may be released.
First-aid measures general       : Call a physician immediately.         First-aid measures after inhalation       : Remove person to fresh air and keep comfortable for breathing.         First-aid measures after skin contact       : Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physicimmediately.         First-aid measures after eye contact       : Rinse cautiously with water for several minutes. Remove contact lenses, if present and ear do. Continue rinsing. Call a physician immediately.         First-aid measures after ingestion       : Rinse mouth. Do not induce vomiting. Call a physician immediately.         4.2.       Most important symptoms and effects, both acute and delayed         Symptoms/effects after eye contact       : Burns.         Symptoms/effects after eye contact       : Serious damage to eyes.         Symptoms/effects after ingestion       : Burns.         Strontom of any immediate medical attention and special treatment needed         Treat symptomatically.       Sectrono 5: Firefighting measures         51.       Extinguishing media         Suitable extinguishing media       : Water spray. Dry powder. Foam. Carbon dioxide.
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5.3. Advice for firefighters
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breath apparatus. Complete protective clothing.
SECTION 6: Accidental release measures
6.1. Personal precautions, protective equipment and emergency procedures
No additional information available
6.1.1. For non-emergency personnel
Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.
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
Avoid release to the environment.
6.3. Methods and material for containment and cleaning up
• •
Other information : Dispose of materials or solid residues at an authorized site.
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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         Precautions for safe handling         Precautions for safe handling         :       Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breat dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.         Hygiene measures       :         Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this pro Always wash hands after handling the product.
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 contact with skin and eyes. Do not bread dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.         Hygiene measures       : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this pro

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on (7647-01-0)		
South Africa - Occupational Exposure Limits (Recommended Limits)		
Hydrogen chloride		
7 mg/m <sup>3</sup>		
5 ppm		
Government Notice. R: 1179		

8.2. Appropriate engineering contro	ls
Appropriate engineering controls	: Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment.
8.3. Individual protection measures	, such as personal protective equipment (PPE)
Hand protection	: Protective gloves
Eye protection	: Safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment
Personal protective equipment symbol(s	):



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	: Liquid
Appearance	: Translucent.
Colour	: Colourless.
Odour	: No data available
Odour threshold	: No data available
рН	: No data available
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
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Vapour pressure at 50 °C	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Relative density of saturated gas/air mixture	: No data available
Density	: No data available
Relative gas density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Partition coefficient n-octanol/water (Log Kow)	: No data available

Viscosity, kinematic

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According to SANS 10234:2019 and SANS 11014:2	2010		
Viscosity, dynamic	: No data available		
Explosive properties	: No data available		
Oxidising properties	: No data available		
Explosive limits	: No data available		
Lower explosive limit (LEL)	: No data available		
Upper explosive limit (UEL)	: No data available		
9.2. Other information			
No additional information available			
SECTION 10: Stability and reactive	vity		
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 reaction	ins		
No dangerous reactions known under normal conditions of use.			
10.4. Conditions to avoid	10.4. Conditions to avoid		
None under recommended storage and handling conditions (see section 7).			
10.5. Incompatible materials	0.5. Incompatible materials		
No additional information available			

Hazardous decomposition products 10.6.

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### **SECTION 11: Toxicological information**

#### Information on toxicological effects 11.1.

Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	: Not classified : Not classified : Not classified
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity	<ul> <li>Causes severe skin burns.</li> <li>Assumed to cause serious eye damage</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul>
Reproductive toxicity STOT-single exposure STOT-repeated exposure Aspiration hazard	<ul> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul>

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: Before neutralisation, the product may represent a danger to aquatic organisms.
Hazardous to the aquatic environment, short- term (acute)	: Not classified
Hazardous to the aquatic environment, long- term (chronic)	: Not classified
Aluminium chloride, anhydrous (7446-70-0)	
EC50 Daphnia 1	27.3 mg/l Test organisms (species): Daphnia magna
EC50 72h algae (1)	1.05 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h algae (2)	0.2 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
hydrogen chloride, conc=37%, aqueous solut	ion (7647-01-0)
LC50 fish 1	282 mg/l (96 h, Gambusia affinis, Pure substance)
EC50 Daphnia 1	< 56 mg/l (72 h, Daphnia magna, Pure substance)
Partition coefficient n-octanol/water (Log Pow)	0.25 (QSAR)

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According to SANS 10234:2019 and SANS 11014:2010

12.2. Persistence and degradability		
ALUMINIUM STANDARD SOLUTION (0.5N HC	()	
Persistence and degradability	No additional information available	
hydrogen chloride, conc=37%, aqueous solution (7647-01-0)		
Persistence and degradability	Biodegradability: not applicable.	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
BOD (% of ThOD)	Not applicable	
12.3. Bioaccumulative potential		
ALUMINIUM STANDARD SOLUTION (0.5N HCI)		
Bioaccumulative potential	No additional information available	
hydrogen chloride, conc=37%, aqueous solution (7647-01-0)		
Partition coefficient n-octanol/water (Log Pow)	0.25 (QSAR)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
12.4. Mobility in soil		
ALUMINIUM STANDARD SOLUTION (0.5N HC	1)	
Mobility in soil	No additional information available	
hydrogen chloride, conc=37%, aqueous solut	ion (7647-01-0)	
Partition coefficient n-octanol/water (Log Pow)	0.25 (QSAR)	
Ecology - soil	No (test)data on mobility of the components available. May be harmful to plant growth, blooming and fruit formation.	
12.5. Other adverse effects		
Ozone	: Not classified	
Other adverse effects	: No additional information available	

SECTI	ON 13: Disposal c	onsiderations
13.1.	Disposal methods	
Waste tr	reatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.

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

### In accordance with SANS / IMDG / IATA

SANS	IMDG	ΙΑΤΑ
14.1. UN number		
3264	3264	3264
14.2. Proper Shipping Name		
CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.	Corrosive liquid, acidic, inorganic, n.o.s.
14.3. Transport hazard class(es)		
8	8	8
8	B	B
		Not applicable
14.4. Packing group		
III	Ш	III
14.5. Environmental hazards		
Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
	:	
	No supplementary information available	•
14.6. Special precautions for user		

### - SANS

- SANS	
Special provisions (SANS)	: 223, 274
Limited quantities (SANS)	: 5 L
Limited quantities (SANS)	: 5 L
Packagings, large packagings and IBCs Packing instructions (SANS)	: P001, IBC03, LP01

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According to SANS 10234:2019 and SANS 11014:2010

According to SANS 10234.2019 and SANS 11014.2010		
Portable tank and bulk containers instructions (SANS)	: T7	
Portable tank and bulk container special provisions (SANS)	: TP1, TP28	
- IMDG		
Special provisions (IMDG)	: 223, 274	
Limited quantities (IMDG)	: 5L	
Excepted quantities (IMDG)	: E1	
Packing instructions (IMDG)	: P001, LP01	
IBC packing instructions (IMDG)	: IBC03	
Tank instructions (IMDG)	: T7	
Tank special provisions (IMDG)	: TP1, TP28	
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		
PCA Excepted quantities (IATA)	: E1	
PCA Limited quantities (IATA)	: Y841	
PCA limited quantity max net quantity (IATA)	: 1L	
PCA packing instructions (IATA)	: 852	
PCA max net quantity (IATA)	: 5L	
CAO packing instructions (IATA)	: 856	
CAO max net quantity (IATA)	: 60L	
Special provisions (IATA)	: A3, A803	
ERG code (IATA)	: 8L	
14.7. Transport in bulk according to Ann	ex II of MARPOL 73/78 and the IBC Code	
Not applicable		
SECTION 15: Regulatory informatio	n	
15.1. Safety, health, and environmental r	national regulations specific for the product	
Regulatory reference	<ul> <li>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.</li> </ul>	
SECTION 16: Other information		
Issue date	: 23/07/2020	
Revision date	: 23/07/2025	
Full text of H-statements:		
H314	Causes severe skin burns and eye damage.	
H402	Harmful 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.