

# → Safety Data Sheet

According to SANS 10234:2019 and SANS 11014:2010

Issue date:16/07/2020 Revision date: 23/07/2025 : Version: 1.0

## **SECTION 1: Identification**

#### 1.1. Product identifier

Trade name : ALUMINIUM CHLORIDE 6hydr IUPAC name : Aluminium trichloride hexahydrate

 EC-No.
 : 616-520-1

 CAS-No.
 : 7784-13-6

 Product code
 : 101030xxx

 Formula
 : AICI3.6H2O

#### 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.za

#### 1.4. Emergency telephone number

Emergency number : +27 11 452 1116

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### **Classification according to the United Nations GHS**

Skin corrosion/irritation, Category 1B H314
Serious eye damage/eye irritation, H319

Category 2A

Full text of H statements : see section 16

### 2.2. Label elements

### **Labelling according to the United Nations GHS**

Hazard pictograms (GHS-ZA)



GHS05

Signal word (GHS-ZA) : Danger

Hazard statements (GHS-ZA) : H314 - Causes severe skin burns and eye damage.

H319 - Causes serious eye irritation.

Precautionary statements (GHS-ZA) : P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

P264 - Wash hands, forearms and face thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER or doctor.

P321 - Specific treatment (see supplemental first aid instruction on this label).

P337+P313 - If eye irritation persists: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse.

P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

#### 2.3. Other hazards

Adverse physicochemical, human health and

environmental effects

: Causes severe skin burns and eye damage, Causes serious eye irritation.

23/07/2020 ZA - en 1/5

# Safety Data Sheet

According to SANS 10234:2019 and SANS 11014:2010

## **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

IUPAC name : Aluminium trichloride hexahydrate

Substance identification codes: See section 1.1

Name	Product identifier	%	Classification according to the United Nations GHS
Aluminum chloride, hexahydrate (Main constituent)	(CAS-No.) 7784-13-6	≥ 99	Skin Corr. 1B, H314 Eye Irrit. 2A, H319

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 : 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 easy to

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 skin contact : Burns

Symptoms/effects after eye contact : Serious damage to eyes. Eye irritation.

Symptoms/effects after ingestion : Burns.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of : Toxic fumes may be released.

fire

#### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

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

Methods for cleaning up : Mechanically recover 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 breathe

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 product.

Always wash hands after handling the product.

23/07/2020 ZA - en 2/5

# Safety Data Sheet

According to SANS 10234:2019 and SANS 11014:2010

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool.

# SECTION 8: Exposure controls/personal protection

# 8.1. Control parameters

ALUMINIUM CHLORIDE 6hydr (7784-13-6)	
South Africa - Occupational Exposure Limits (Recommended Limits)	
Local name	Aluminium - Soluble salts
OEL TWA (mg/m³)	2 mg/m³
Regulatory reference	Government Notice. R: 1179

### 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, such as personal protective equipment (PPE)

Hand protection : Protective gloves
Eye protection : Safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : Dust production: dust mask with filter type P1

### 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 chemical properties

: Solid Physical state : No data available Appearance Molecular mass 241.43 g/mol Colour No data available No data available Odour Odour threshold No data available No data available рΗ No data available Relative evaporation rate (butylacetate=1) : No data available : No data available

Relative evaporation rate (ether=1) Melting point : No data available Freezing point Not applicable No data available Boiling point 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 : No data available Relative vapour density at 20 °C 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

23/07/2020 ZA - en 3/5

# Safety Data Sheet

According to SANS 10234:2019 and SANS 11014:2010

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

No additional information available

# 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.

# **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Skin corrosion/irritation : Causes severe skin burns.
Serious eye damage/irritation : Causes serious eye irritation.

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

### **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

#### 12.2. Persistence and degradability

#### **ALUMINIUM CHLORIDE 6hydr (7784-13-6)**

Persistence and degradability

No additional information available

# 12.3. Bioaccumulative potential

## **ALUMINIUM CHLORIDE 6hydr (7784-13-6)**

Bioaccumulative potential

No additional information available

23/07/2020 ZA - en 4/5

# Safety Data Sheet

According to SANS 10234:2019 and SANS 11014:2010

- 4	2.4.	n a	_	 	soil	

ALUMINIUM CHLORIDE 6hydr (7784-13-6)		
Mobilit	ty in soil	No additional information available
12 E	Other adverse effects	

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.

## **SECTION 14: Transport information**

In accordance with SANS / IMDG / IATA

SANS	IMDG	IATA		
14.1. UN number				
Not regulated for transport				
14.2. Proper Shipping Name				
Not applicable	Not applicable	Not applicable		
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable		
Not applicable	Not applicable	Not applicable		
14.4. Packing group				
Not applicable	Not applicable	Not applicable		
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

No data available

# - IMDG

No data available

#### - IATA

No data available

# 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
 : 16/07/2020

 Revision date
 : 23/07/2025

# Full text of H-statements:

H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.

## 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.

23/07/2020 ZA - en 5/5