





# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 31.12.2017	Version: 7.0	Print date: 31.12.2017

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

### **1.1 Product identifier**

Trade name/designation:	Aluminium chloride, anhydrous GPR RECTAPUR®
Product No.:	21031
CAS No.:	7446-70-0
INDEX No.:	013-003-00-7
REACH No.:	Not yet communicated down the supply chain.
Other means of identification:	no data available

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses:

General chemical reagent

### 1.3 Details of the supplier of the safety data sheet

# United Kingdom

# VWR International Ltd.

Street Postal code/city Telephone Telefax E-mail (competent person) Hunter Boulevard, Magna Park Lutterworth, LE17 4XN 0800 22 33 44 01455 55 85 86 SDS@vwr.com

# **Emergency telephone**

Telephone

+44 (0) 1270 502894 (CareChem24)









# **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture

### 2.1.1 Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements
Skin corrosion, category 1B	H314

### 2.2 Label elements

# 2.2.1 Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



### Signal word: Danger

Hazard statements	
H314	Causes severe skin burns and eye damage.

Precautionary statements		
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.	
	Continue rinsing.	
P308+P310	IF exposed or concerned: Immediately call a POISON CENTER/doctor.	

### Other hazards

none

# SECTION 3: Composition / information on ingredients

#### 3.1 Substances

Substance name Molecular formula Molecular weight CAS No. REACH registration No. INDEX No. Aluminium chloride AlCl3 133.34 g/mol 7446-70-0 Not yet communicated down the supply chain. 013-003-00-7









# **SECTION 4: First aid measures**

#### 4.1 General information

IF exposed: Immediately call a POISON CENTRE/doctor. If unconscious place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Change contaminated, saturated clothing. Do not leave affected person unattended.

### After inhalation

Immediately call a POISON CENTRE/doctor. Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

#### In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. Immediate medical treatment required because corrosive injuries that are not treated are hard to cure.

#### After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing.

#### In case of ingestion

Immediately call a POISON CENTRE/doctor. Do NOT induce vomiting. Rinse mouth thoroughly with water. Give nothing to eat or drink.

#### 4.2 Most important symptoms and effects, both acute and delayed

no data available

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

no data available

#### 4.4 Self-protection of the first aider

First aider: Pay attention to self-protection!

### 4.5 Information to physician

no data available

# **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

#### Suitable extinguishing media

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

# Extinguishing media which must not be used for safety reasons

no restriction

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

In case of fire may be liberated: Hydrogen chloride (HCl)

### 5.3 Advice for firefighters

DO NOT fight fire when fire reaches explosives. Special protective equipment for firefighters









Wear a self-contained breathing apparatus and chemical protective clothing.

#### **Additional information**

Do not allow run-off from fire-fighting to enter drains or water courses. Do not inhale explosion and combustion gases. Use water spray jet to protect personnel and to cool endangered containers. In case of fire: Evacuate area.

# **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid generation of dust.

#### **6.2 Environmental precautions**

Do not allow to enter into surface water or drains.

### 6.3 Methods and material for containment and cleaning up

Spilled product must never be returned to the original container for recycling. Clean contaminated objects and areas thoroughly observing environmental regulations. Collect in closed and suitable containers for disposal.

#### 6.4 Additional information

Clear spills immediately.

### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Avoid: Inhalation Avoid contact with skin and eyes. Use extractor hood (laboratory). If handled uncovered, arrangements with local exhaust ventilation have to be used. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

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

Recommended storage temperature: 15-25°C Storage class: 8B Keep container tightly closed and in a well-ventilated place.

#### 7.3 Specific end use(s)

no data available

# SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Does not contain substances above concentration limits fixing an occupational exposure limit.

### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. If handled uncovered, arrangements with local exhaust ventilation have to be used.









#### 8.2.2 Personal protection equipment

Wear suitable protective clothing. When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn.

#### Eye/face protection

Eye glasses with side protection DIN-/EN-Norms: DIN EN 166 Recommendation: VWR 111-0432

#### Skin protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Recommended glove articles DIN-/EN-Norms: DIN EN 374 In the case of wanting to use the gloves again, clean them before taking off and air them well.

By short-term hand contact	
Suitable material:	NBR (Nitrile rubber)
Thickness of the glove material:	0,12 mm
Breakthrough time (maximum wearing time):	> 480 min
Recommended glove articles:	VWR 112-0998
By long-term hand contact	
Suitable material:	NBR (Nitrile rubber)
Thickness of the glove material:	0,38 mm
Breakthrough time (maximum wearing time):	> 480 min
Recommended glove articles:	VWR 112-3717 / 112-1381
Respiratory protection	

Respiratory protection

Respiratory protection necessary at: aerosol or mist formation		
Suitable respiratory protection apparatus:	Filtering Half-face mask (DIN EN 149)	
Recommendation:	VWR 111-0451	
Suitable material:	P3	
Recommendation:	VWR 111-0244	

#### Additional information

Wash hands before breaks and after work. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

8.2.3 Environmental exposure controls no data available









# SECTION 9: Physical and chemical properties

# 9.1 Information on basic physical and chemical properties

(a) Appearance	
Physical state:	solid
Colour:	white
(b) Odour:	no data available
(c) Odour threshold:	no data available

### Safety relevant basic data

(d) pH:	2.4 (100 g/l; H₂O; 20 °C)
(e) Melting point/freezing point:	180-181 °C
(f) Initial boiling point and boiling range:	no data available
(g) Flash point:	no data available
(h) Evaporation rate:	no data available
(i) Flammability (solid, gas):	not applicable
(j) Flammability or explosive limits	
Lower explosion limit:	no data available
Upper explosion limit:	no data available
(k) Vapour pressure:	1 hPa (20 °C)
(I) Vapour density:	no data available
(m) Relative density:	1.31 g/cm³ (20 °C. flüssig);1.23 g/cm³ (230 °C)
(n) Solubility(ies)	
Water solubility (g/L):	~450 g/l (20 °C)
Soluble (g/L) in Ethanol:	no data available
(o) Partition coefficient: n-octanol/water:	no data available
(p) Auto-ignition temperature:	no data available
(q) Decomposition temperature:	no data available
(r) Viscosity	
Kinematic viscosity:	no data available
Dynamic viscosity:	no data available
(s) Explosive properties:	not applicable
(t) Oxidising properties:	not applicable

### 9.2 Other information

Bulk density: Refraction index: Dissociation constant: Surface tension: Henry constant: 1.31 g/cm<sup>3</sup> (20 °C. flüssig);1.23 g/cm<sup>3</sup> (230 °C) no data available no data available no data available no data available

# SECTION 10: Stability and reactivity

# 10.1 Reactivity

no data available









### **10.2 Chemical stability**

The product is chemically stable under standard ambient conditions (room temperature).

#### 10.3 Possibility of hazardous reactions

no data available

### 10.4 Conditions to avoid

no data available

#### **10.5 Incompatible materials**

no data available

### **10.6 Hazardous decomposition products**

no data available

#### **10.7 Additional information**

no data available

# **SECTION 11: Toxicological information**

### **11.1 Information on toxicological effects**

#### Acute effects

Acute oral toxicity: LD50: > 3450 mg/kg - Rat - (RTECS)

Acute dermal toxicity: LD50: < 2000 mg/kg - Rabbit - (RTECS)

Acute inhalation toxicity: no data available

#### Irritant and corrosive effects

Primary irritation to the skin: Causes severe skin burns and eye damage.

Irritation to eyes: Causes serious eye damage.

*Irritation to respiratory tract:* not applicable









#### Respiratory or skin sensitisation

In case of skin contact: not sensitising After inhalation: not sensitising

#### STOT-single exposure

not applicable

# STOT-repeated exposure

not applicable

### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) Carcinogenicity No indication of human carcinogenicity.

### Germ cell mutagenicity

No indications of human germ cell mutagenicity exist.

#### **Reproductive toxicity** No indications of human reproductive toxicity exist.

# Aspiration hazard not applicable

Other adverse effects no data available

Additional information no data available

# **SECTION 12: Ecological information**

# 12.1 Ecotoxicity

Fish toxicity: no data available

Daphnia toxicity: no data available

Algae toxicity: no data available

Bacteria toxicity: no data available

# 12.2 Persistence and degradability

no data available

#### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water: no data available









### 12.4 Mobility in soil:

no data available

### 12.5 Results of PBT/vPvB assessment

no data available

### 12.6 Other adverse effects

no data available

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### Appropriate disposal / Product

Dispose according to local legislation. Consult the appropriate local waste disposal expert about waste disposal.

Waste code product: no data available

#### Appropriate disposal / Package

Dispose according to local legislation. Handle contaminated packages in the same way as the substance itself.

Additional information no data available

# **SECTION 14: Transport information**

# Land transport (ADR/RID)

14.1	UN-No.:	1726
14.2	Proper Shipping Name:	ALUMINIUM CHLORIDE, ANHYDROUS
14.3	Class(es):	8
	Classification code:	C2
	Hazard label(s):	8
14.4	Packing group:	II
14.5	Environmental hazards:	No
14.6	Special precautions for user:	
	Hazard identification number (Kemler No.):	80
	tunnel restriction code:	E
		(Passage forbidden through tunnels of category E.)

### Sea transport (IMDG)

14.1	UN-No.:	1726
14.2	Proper Shipping Name:	ALUMINIUM CHLORIDE, ANHYDROUS
14.3	Class(es):	8
	Classification code:	
	Hazard label(s):	8
14.4	Packing group:	II
14.5	Environmental hazards:	No







MARINE POLLUTANT: No 14.6 Special precautions for user: Segregation group: 1 EmS-No. F-A S-B 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code not relevant

# Air transport (ICAO-TI / IATA-DGR)

14.1	UN-No.:	1726
14.2	Proper Shipping Name:	ALUMINIUM CHLORIDE, ANHYDROUS
14.3	Class(es):	8
	Classification code:	
	Hazard label(s):	8
14.4	Packing group:	II
14.5	Special precautions for user:	

# **SECTION 15: Regulatory information**

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **EU** legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (Text with EEA relevance)
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (Text with EEA relevance)

- Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (Text with EEA relevance)
- Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

#### National regulations

no data available

Water hazard class (WGK):

slightly hazardous to water (WGK 1)

#### **15.2 Chemical Safety Assessment**

not relevant









# **SECTION 16: Other information**

#### Abbreviations and acronyms

ACGIH - American Conference of Governmental Industrial Hygiensts ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road AGS - Committee on Hazardous Substances (Ausschuss für Gefahrstoffe) CLP - Regulation on Classification, Labelling and Packaging of Substances and Mixtures DFG - German Research Foundation (Deutsche Forschungsgemeinschaft) Gestis - Information system on hazardous substances of the German Social Accident Insurance (Gefahrstoffinformationssystem der Deutschen Gesetzlichen Unfallversicherung) IATA-DGR - International Air Transport Association-Dangerous Goods Regulations ICAO-TI - International Civil Aviation Organization-Technical Instructions IMDG - International Maritime Code for Dangerous Goods LTV - Long Term Value NIOSH - National Institute for Occupational Safety and Health **OSHA - Occupational Safety & Health Administration** PBT - Persistent, Bioaccumulative and Toxic RID - Regulation concerning the International Carriage of Dangerous Goods by Rail STV - Short Term Value SVHC - Substances of Very High Concern vPvB - very Persistent, very Bioaccumulative

#### Additional information

Indication of changes: general update

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

