

Revision date: 30-Aug-2018

Supersedes: 21-Dec-2017

SDS Number: 13741

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product Identifier

**Product name:** REACH 301 - Aluminum Sesquichlorohydrate, USP

### Other means of identification

### Recommended use of the chemical and restrictions on use

**Product Use Description:** Caution: For manufacturing, processing, or repacking

**Percent Anhydrous:** 81%

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

#### **Company/Undertaking Identification**

Elementis SRL, Inc.  
469 Old Trenton Road  
East Windsor, NJ 08512  
USA  
Tel: +1 609 443 2500  
Fax: +1 609 443 2422

Elementis UK Ltd.  
c/o Elementis GmbH  
Stolberger Str. 370  
50933 Cologne, Germany  
Tel. +49 (0) 221 2923 2000

#### **Emergency Telephone Number**

For Chemical Emergency ONLY (spill, leak, fire, exposure or accident), call CHEMTREC at: 1-800-424-9300 or 1-703-527-3887

For ALL other inquiries about this product, call Elementis at: 1-609-443-2000 (USA) or +49 (0) 221 2923 2000 (EU)

Product\_Stewardship@elementis.com

## 2. HAZARDS IDENTIFICATION

### **Classification**

### **OSHA Regulatory Status**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

### Label Elements

#### **EMERGENCY OVERVIEW**

The product contains no substances which at their given concentration, are considered to be hazardous to health

**Appearance:** Powder

**Physical state:** Solid

**Odor:** Weak

### Hazards not otherwise classified (HNOC)

**Other Information**

None known

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous components, or components with exposure limits (see section 8)

Components	CAS-No	Weight %
Aluminum chloride hydroxide (Al <sub>2</sub> Cl(OH) <sub>5</sub> )	12042-91-0	50 - 100 %

**4. FIRST AID MEASURES****FIRST AID MEASURES**

<b>General Advice</b>	Get medical attention immediately if symptoms occur. Show this safety data sheet to the doctor in attendance.
<b>Inhalation:</b>	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen.
<b>Skin contact:</b>	Wash off immediately with soap and plenty of water. If a person feels unwell or symptoms of skin irritation appear, consult a physician.
<b>Eye contact:</b>	Rinse immediately carefully and thoroughly with eye-bath or water. If eye irritation persists, consult a specialist.
<b>Ingestion</b>	If swallowed, seek medical advice immediately and show this SDS or label. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.
<b>Protection of first-aiders:</b>	Avoid contact with skin and eyes.

**Most important symptoms and effects, both acute and delayed**

<b>Most Important Symptoms and Effects</b>	None.
--	-------

**Indication of any immediate medical attention and special treatment needed**

<b>Notes to physician</b>	Treat symptomatically.
---------------------------	------------------------

**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>)  
Dry powder  
Dry sand  
Alcohol-resistant foam  
Use water spray or fog; do not use straight streams

**Extinguishing media which must not be used for safety reasons**

Do not use a solid water stream as it may scatter and spread fire

**Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases**

None in particular

**Unusual Fire and Explosion Hazards:**

May emit toxic fumes under fire conditions

**Hazardous combustion products**

Gaseous hydrogen chloride (HCl)

**Explosion data****Explosive properties:**

Not explosive

**Reactivity Hazard:**

None known

**Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Keep people away from and upwind of spill/leak. Use personal protective equipment.

**Other Information:** See Section 12 for more information.

**Environmental precautions**

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

**Methods and material for containment and cleaning up**

**Clean-up methods:** Do not create a powder cloud by using a brush or compressed air. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

**7. HANDLING AND STORAGE****Precautions for Safe Handling**

**Handling:** Avoid contact with skin, eyes and clothing. Avoid breathing mists, dusts, or vapors. Wash hands thoroughly after handling.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers dry and tightly closed to avoid moisture absorption and contamination. Keep product and empty container away from heat and sources of ignition. Keep at temperatures below 60 °C.

**Additional Storage:** Unsuitable materials: steel, light- and brass alloys  
Carbon steel  
Suitable material:  
Plastic drum  
Stainless steel

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters****Exposure Guidelines**

Components	ACGIH TLV	AIHA TLV	OSHA TWA	IDLH:
Aluminum chloride hydroxide (Al <sub>2</sub> Cl(OH) <sub>5</sub> )	TWA: 1 mg/m <sup>3</sup>			

12042-91-0				
------------	--	--	--	--

**Appropriate engineering controls**

**Engineering Measures** Maintain adequate engineering controls and/or ventilation to keep hazardous ingredients below their statutory limits. Use an approved respirator whenever exposure limits are exceeded

**Individual protection measures, such as personal protective equipment**

**Eye protection** Safety glasses.

**Skin and body protection** Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place

**Respiratory protection:** Effective dust mask.

**Hand protection** Rubber gloves  
Neoprene gloves

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

**Physical state:** Solid  
**Appearance:** Powder  
**Odor:** Weak  
**Color:** White to light yellow  
**Odor Threshold** No data available

<u>Property</u>	<u>Values</u>	<u>Remarks / • Method</u>
<b>pH</b>	ca. 4.0	(150 g/l) @ 20 °C (68 °F)
<b>Melting point/range:</b>	No data available	
<b>Freezing point:</b>	No data available	
<b>Boiling Point/Range</b>	No data available	
<b>Flash Point</b>	No data available	
<b>Evaporation rate</b>	No data available	
<b>Explosion limits:</b>	No data available	
<b>Vapor pressure</b>	No data available	
<b>Vapor density</b>	No data available	
<b>Density:</b>	1.5 - 1.96 g/cm <sup>3</sup> (12.518 - 16.356 lbs/gal)	@ 20 °C (68 °F)
<b>Water solubility</b>	ca. 500 g/l	@ 20 °C (68 °F)
<b>Solubility in other solvents</b>	No data available	
<b>Partition coefficient: n-octanol/water</b>	ca. -2 log POW	
<b>Autoignition temperature</b>	No data available	
<b>Decomposition temperature</b>	No data available	
<b>Viscosity:</b>	No data available	

**Explosive properties:** Not explosive  
**Oxidizing Properties** No information available

**Other Information**

**Bulk Density** No data available

**10. STABILITY AND REACTIVITY**

**Reactivity**

No dangerous reaction known under conditions of normal use

**Chemical Stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

None known

**Conditions to Avoid**

Heat, flames and sparks

**Incompatible Materials:**

Contact with metals (aluminum, zinc, tin) may release hydrogen gas

**Hazardous Decomposition Products**

None reasonably foreseeable

**11. TOXICOLOGICAL INFORMATION****Product Information**

Data obtained on this product or a similar product

**Information on likely routes of exposure**

<b>Inhalation:</b>	No data available
<b>Eye contact:</b>	No eye irritation (OECD 405)
<b>Skin contact:</b>	No skin irritation (OECD 404)
<b>Ingestion</b>	No data available

**Component Information**

Components	LD50/Oral	LD50/Dermal	LC50/inhalation
Aluminum chloride hydroxide (Al <sub>2</sub> Cl(OH) <sub>5</sub> ) 12042-91-0	9187 mg/kg (Rat)	> 2000 mg/kg (Rat)	

**Information on Toxicological Effects****Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Corrosivity</b>	No data available
<b>Sensitization</b>	Not a skin sensitizer (OECD 406)
<b>Mutagenic effects</b>	No data available
<b>Carcinogenic effects:</b>	There are no known carcinogenic chemicals in this product
<b>Reproductive Toxicity:</b>	No data available
<b>Developmental Toxicity</b>	No data available

**Chronic Toxicity**

<b>Chronic toxicity:</b>	No data is available on the product itself
--------------------------	--

**Other Adverse Effects:** No data available

## 12. ECOLOGICAL INFORMATION

**Product Information** The data listed, below, is based on this or a similar product:

**LC50** >1000 mg/l (Danio rerio; 96h) (OECD 203)

**EC50** 98 mg/l (Daphnia magna; 48h) (OECD 202)

**No Observable Effect Concentration (NOEC)** >1000 mg/l (Danio rerio)  
40 mg/l (Daphnia magna)

### Ecotoxicity

The environmental impact of this product has not been fully investigated.

Components	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
Aluminum chloride hydroxide (Al <sub>2</sub> Cl(OH) <sub>5</sub> ) 12042-91-0	EC50: 14 mg/L (72h)	LC50: > 100mg/L (Danio Rerio; 96h)	EC50: 48 mg/L (48h)

Components	LC50	EC50	Bioaccumulation Concentration Factor	No Observable Effect Concentration (NOEC)
Aluminum chloride hydroxide (Al <sub>2</sub> Cl(OH) <sub>5</sub> )	100 - 500 mg/L (Brachydanio rerio; 96 h static)			

### Persistence and degradability:

Not inherently biodegradable

### Bioaccumulative potential:

Does not bioaccumulate

### Mobility

No information available

### General Note:

Do not allow product to reach ground water, water course or sewage system.

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

**Waste from residues /unused products** Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of in accordance with federal, state and local regulations.

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

### RCRA Hazardous Waste:

**RCRA:** Not listed

## 14. TRANSPORT INFORMATION

**U.S. Department of Transportation Ground (49 CFR):** Not regulated

**International Air Transport Association (IATA)** Not regulated

**International Maritime Dangerous Goods (IMDG)** Not regulated

**Surface Shipments in Europe (ADR/RID):** Not regulated

## 15. REGULATORY INFORMATION

### International Inventories

USA (TSCA):	Complies
EU (EINECS):	Complies
EU REACH:	Complies
CANADA (DSL)	Complies
CANADA (NDSL):	Not applicable
JAPAN (ENCS):	Complies
PHILIPPINES (PICCS):	Complies
KOREA (KECL):	Complies
China (IECSC)	Complies
AUSTRALIA (AICS):	Complies
NEW ZEALAND (NZIoC):	Complies
TAIWAN (NECI):	Complies

### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**ENCS** - Japan Existing and New Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances  
**NZIoC** - New Zealand Inventory of Chemicals  
**NECI** - Taiwan National Existing Chemical Inventory

### EU-Regulations

For purchases from Elementis EU legal entities, all ingredients are currently registered or exempt under REACH. For purchases from non-EU Elementis legal entities with the intention to export into the EU, please contact your Elementis representative/local office.

### Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### SARA 311/312 Hazard Categories

None

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### TSCA Section 12(b) Export Notification

This product does not contain chemicals that are required to be notified under the TSCA 12(b) Export Notification.

### State Regulations (RTK)

**California Proposition 65**

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects

**16. OTHER INFORMATION****HMIS:**

<b>Health:</b>	1
<b>Flammability:</b>	0
<b>Physical Hazard:</b>	0

**Previous Revision Date:** 21-Dec-2017

**Key/Legend:** N/A: Not applicable  
N/D: Not determined  
ppm: Parts per million  
X: Listed

**Prepared by** Product Stewardship

The information provided in this Safety Data Sheet is correct to the best of ELEMENTIS' knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release, and is not to be considered a warranty or quality specification. The information relates only to the specific product designated and may not be valid for such product when used in combination with any other material or in any process, unless specified in this SDS. ELEMENTIS specifically disclaims any liability for any loss, injury or damage which may result from use or misuse of this product. All chemicals should be handled only by competent personnel, within a controlled environment. It is the buyer's/user's responsibility to ensure that his activities comply with all applicable federal, state, provincial and local laws, and to determine the conditions necessary for the safe use of this product. ELEMENTIS urges each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product.

**End of Safety Data Sheet**