

# SAFETY DATA SHEET

According to OSHA Hazard Communication Standard 2012

A global specialty chemicals company

Revision date: 30-Aug-2018	Supercedes: 21-Dec	c-2017	<b>SDS Number:</b> 13730
1. IDENTIFICATION OF THE	E SUBSTANCE/PREPARATION	ON AND OF THE COMPAN	IY/UNDERTAKING
Product Identifier			
Product name:	Chlorhydrol 50 Aluminum Chloro	hydrate, USP	
Other means of identification			
Recommended use of the chemica	al and restrictions on use		
Product Use Description:	Formulation additive		
	Antiperspirant		
	Pharma Active Ingredients	outio proporationa	
	Additive for cosmetic or pharmace Caution: For manufacturing, proce		
Percent Anhydrous:	40%	essing, or repacking	
Details of the supplier of the safety	v data shaat		
Details of the supplier of the safety	<u>/ uata sileet</u>		
Company/Undertaking Identification	n Elementis SRL, Inc.	Elementis UK Ltd.	
	469 Old Trenton Road	c/o Elementis GmbH	
	East Windsor, NJ 08512	Stolberger Str. 370	
	USA	50933 Cologne, Germany	
	Tel: +1 609 443 2500	Tel. +49 (0) 221 2923 2000	
	Fax: +1 609 443 2422		
Emergency Telephone Number	For Chemical Emergency ONLY (spill, leak, fire, exposure or accident), call CHEMTREC at:		
	1-800-424-9300 or 1-703-527-388	37	
	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: Fluid

Physical state: Liquid

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 (Al2Cl(OH)5)	12042-91-0	25 - 50 %

#### 4. FIRST AID MEASURES

#### FIRST AID MEASURES

General Advice	Get medical attention immediately if symptoms occur. Show this safety data sheet to the doctor in attendance.	
Inhalation:	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen.	
Skin contact:	Wash off immediately with soap and plenty of water. If a person feels unwell or symptoms of skin irritation appear, consult a physician.	
Eye contact:	Rinse immediately carefully and thoroughly with eye-bath or water. If eye irritation persists, consult a specialist.	
Ingestion	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.	
Protection of first-aiders:	Avoid contact with skin and eyes.	
Most important symptoms and effects, both acute and delayed		

Most Important Symptoms and None. Effects

Indication of any immediate medical attention and special treatment needed

Notes to physician

Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Carbon dioxide (CO2) 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 Other Information:	Keep people away from and upwind of spill/leak. Use personal protective equipment. 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 containme	ent and cleaning up
Clean-up methods:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Use neutralizing agents. Sweep up and shovel into suitable 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
 Do not freeze. Keep containers tightly closed in a cool, well-ventilated place. 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: Stainless steel Plastic drum

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

#### Exposure Guidelines

Components	ACGIH TLV	AIHA TLV	OSHA TWA	IDLH:
Aluminum chloride hydroxide (Al2Cl(OH)5) 12042-91-0	TWA: 1 mg/m <sup>3</sup>			

## 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:	In case of insufficient ventilation wear suitable respiratory equipment.
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: Appearance: Odor: Color: Odor Threshold	Liquid Fluid Weak White to light yellow No data available	
Property	Values	Remarks / • Method
pH	4	@ 20 °C (68 °F)
Melting point/range:	No data available	
Freezing point:	No data available	
Boiling Point/Range	110-115 °C (230-239 °F)	
Flash Point	No data available	
Evaporation rate	No data available	
Explosion limits:	No data available	
Vapor pressure	ca. 23 hPa (ca. 17 mm Hg)	@ 20 °C (68 °F)
Vapor density	No data available	
Density:	1.34 g/cm <sup>3</sup> (11.182 lbs/gal)	@ 20 °C (68 °F)
Water solubility	Completely miscible	
Solubility in other solvents	No data available	
Partition coefficient: n-octanol/wate		
Autoignition temperature	No data available	
Decomposition temperature	No data available	
Viscosity:	10 mPas	@ 20 °C (68 °F)
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

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

#### **Component Information**

Components	LD50/Oral	LD50/Dermal	LC50/inhalation
Aluminum chloride hydroxide (Al2Cl(OH)5) 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

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

Chronic toxicity: 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)
EC50	98 mg/l (Daphnia magna)
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 (Al2Cl(OH)5) 12042-91-0	EC50: 14 mg/L (72h)	LC50: > 100mg/L (Danio Rerio; 96h)	EC50: 48 mg/L (48h)

# 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**

<u>HMIS:</u> Health: Flammability: Physical Hazard:	1 0 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**