

Aluminum Chlorohydrate

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 /
March 26, 2012 / Rules and Regulation

Revision Date: 20-Feb-2024
Supersedes: 15-Jan-2024

1 PRODUCT & COMPANY IDENTIFICATION

Product Name:	Aluminum Chlorohydrate	Distributor:	MakingCosmetics Inc.
Synonyms:	Aluminum Hydroxy Chloride, Dialuminium Chloride Pentahydroxide	Address:	10800 231 st Way NE
INCI Name:	Aluminum Chlorohydrate		Redmond, WA 98053 (USA)
CAS Number:	12042-91-0	Phone / Fax:	425-292-9502 / 425-292-9601
Formula:	No data available	Web:	www.makingcosmetics.com
Product Form:	Solid		
Product Use:	Cosmetic use	Emergency Telephone Number:	1-800-424-9300 (Chemtrec)

2 HAZARDS IDENTIFICATION

GHS Classification: Combustible dust
GHS Labeling: **Warning**
GHS Hazard Pictograms: None.
GHS Hazard Statements: May form combustible dust concentrations in air.
GHS Precautionary Statements: Prevention: P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233 Keep container tightly closed.
P243 Take precautionary measures against static discharge
Potential Health Hazards: May form combustible dust concentrations in air.
NFPA Ratings (704):

Health	N/A	N/A
Flammability	N/A	N/A
Reactivity	N/A	N/A
Specific Hazard	N/A	

3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS No.</u>	<u>Weight %</u>	<u>Molecular Weight</u>
Aluminum Chlorohydrate	12042-91-0	90% - 100%	Not Available

4 FIRST AID MEASURES

Eyes: Rinse with plenty of water. Seek medical attention if necessary.
Inhalation: Move to fresh air. Seek medical attention if necessary.
Skin: Wash off with soap and plenty of water. Seek medical attention if necessary
Ingestion: Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. Seek medical attention and show safety datasheet or label.
General Information: Remove contaminated clothing and shoes. Ensure that the First Aid Personnel are aware of the product involved, and take precautions to protect themselves (e.g. wear personal protection equipment)

5 FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media: Use appropriate media (Water spray, foam) for adjacent fire. Do not use high pressure water jet.
Special protective equipment & precautions for firefighters: Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots. Cool endangered containers with water spray jet. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Do not disperse powdered product in air.
Flash Points: No data available
Specific hazards arising from the In case of fire hazardous decomposition products may be produced such as: Hydrogen chloride.

chemical: See also Stability and Reactivity section.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment & emergency procedures: Ensure adequate ventilation. Wear suitable protective equipment. Keep away sources of ignition. Information regarding Safe handling, See section 8 for recommendations on the use of personal protective equipment.

Environmental precautions: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. The product should not be allowed to enter drains, water courses or the soil. Notify environmental authorities in case of leak.

Methods and material for containment and cleaning up: Take up mechanically. Avoid dust formation. Take measures to prevent the build-up of electrostatic charge. Risk of dust explosion. Dispose of all waste and cleanup materials in accordance with regulations.

7 HANDLING & STORAGE

Precautions for safe handling: Handle and open container with care. Avoid dust formation. Avoid dust accumulation in enclosed space. Provide adequate ventilation. Take measures to prevent the build-up of electrostatic charge. See section 8 for recommendations on the use of personal protective equipment.

Conditions for safe storage, incl. any incompatibilities: Store in original (tightly closed) container. Store away from incompatible materials (see section 10 for incompatibilities).

Fire/Explosion Advice: Dust can form an explosive mixture in air. Keep away sources of ignition. Take precautionary measures against build-up of electrostatic charges, such as earthing during loading and off-loading operations. Observe the general rules of industrial fire protection

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Component</u>	<u>Exposure Limits</u>	<u>Basis</u>	<u>Entity</u>
Aluminum Chlorohydrate	10 mg/m ³	Permissible exposure limit (dust, nuisance dust, particulates)	California Permissible Exposure Limits
	15 mg/m ³	TWA (8h) (inert or nuisance dust)	US OSHA Table Z-3
	50 mill particles per cubic ft	TWA (inert or nuisance dust)	US OSHA Table Z-3
	10 mg/m ³	TWA (particles (insoluble or poorly soluble))	US ACGIH Threshold Limit Values
	10 mg/m ³	TEEL-0 (particulate material (PNOS))	AIHA. ERPG and TEEL Table 2
	30 mg/m ³	Based on the applicable AEGL-1, ERPG-1, or TEEL-1 value	AIHA. ERPG and TEEL Table 2
	50 mg/m ³	Based on the applicable AEGL-2, ERPG-2, or TEEL-2 value (particulate material (PNOS))	AIHA. ERPG and TEEL Table 2
	250 mg/m ³	Based on the applicable AEGL-3, ERPG-3, or TEEL-3 value (particulate material (PNOS))	AIHA. ERPG and TEEL Table 2
	5 mg/m ³	PEL TWA (particulates not otherwise regulated)	US NIOSH Pocket Guide to Chemical Hazards
	IDLH value has not been determined for this substance	Immensely Dangerous to Life or Health (particulates not otherwise regulated)	US NIOSH Pocket Guide to Chemical Hazards
	10 mg/m ³	PEL (particulates not otherwise regulated)	California Permissible Exposure Limits
	15 mg/m ³	Final Rule Limit TWA (particulates not otherwise regulated)	29 CFR 1910.1000 Table Z-1-A (Revoked)
	15 mg/m ³	Transitional Limits - PEL (particulates not otherwise regulated)	29 CFR 1910.1000 Table Z-1-A (Revoked)
15 mg/m ³	TWA (8h) (particulates not	US OSHA Table Z-1 Limits for Air	

15 ppm

otherwise regulated (PNOR))

Contaminants [29 CFR 1910.1000]

TWA: Time Weighted Average over 8 hours of work.
 TLV: Threshold Limit Value over 8 hours of work.
 REL: Recommended Exposure Limit
 PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.
 IDLH: Immediately Dangerous to Life or Health
 WEEL: Workplace Environmental Exposure Levels
 CEIL: Ceiling

Personal Protection:

Eyes: Avoid contact with eyes. Safety glasses with side shields should be worn, and if necessary, a face shield.

Inhalation: Do not breath dust. Local ventilation to keep levels below established threshold values is recommended. In case of prolonged exposure to airborne dust concentrations, a suitable particle filter mask that complies with the requirements of national legislation is recommended, depending on the expected exposure levels.

Body: Avoid contact with skin. Wear suitable protective clothing.

Other: Observe the usual precautions for handling chemicals. Ensure that eyewash stations and safety showers are close to the workstation location. Wash hands before breaks and at the end of workday. Use protective skin cream before handling the product. Take off all contaminated clothing immediately and wash it before reuse. Do not eat, drink or smoke when using this product. Observe the usual precautions for handling chemicals.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Powder	Vapor Pressure:	0.001 Pa(20 °C)
Odor:	Odorless	Vapor Density:	Not applicable
Odor Threshold:	No data available	Evaporation Rate:	Not applicable
Color:	White	Flammability:	The product is not flammable. Method: EU A.10
Density:	approx.1.9 g/cm3(20 °C)	Upper/Lower Explosion Limit:	Not applicable
pH:	approx.4.2, Concentration: 150 g/l(20 °C)	Flash Point:	Not applicable
Boiling Point/Range:	400 °C Method: OECD Test Guideline 103	Specific Gravity:	No data available
Melting Point:	No data available	Solubility:	> 1,000 g/l(20 °C)pH: 3.3 Method: OECD Test Guideline 105
Relative Density:	approx.1.9(20 °C)	Auto-Ignition Temperature:	Not applicable
Partition Coefficient: n-octanol/water:	No data available	Decomposition Temperature:	> 100 °C Method: Thermogravimetry
Bulk Density:	approx.600 kg/m3	Explosive Limits/Properties:	In case of inappropriate handling - risk of dust explosion. Method: Expert judgement
Oxidizing Properties:	not oxidizing. Method: Expert judgement	Molecular Weight:	Not applicable

10 STABILITY AND REACTIVITY

Reactivity: No dangerous reaction known under conditions of normal use.

Chemical Stability: Stable under normal conditions.

Hazardous Polymerization: No data available

Conditions to Avoid: Avoid contact with strong oxidizing agents, strong alkalis, zinc, and reactive metals such as aluminum and magnesium.

Incompatible Materials: Strong oxidizing agents, strong alkalis, zinc, and reactive metals such as aluminum and magnesium

Hazardous Decomposition Products: Hydrogen chloride

Possible Hazardous Reactions: No dangerous reaction known under conditions of normal use. Potential dust explosion hazard

11 TOXICOLOGICAL INFORMATION

Acute Toxicity: No data available

Skin: LD50: > 2,000 mg/kg

Eyes:	No eye irritation
Respiratory:	No data available
Ingestion:	LD50: 9,187 mg/kg
Carcinogenicity:	Not listed as carcinogen by IARC, OSHA, or NTP.
Teratogenicity:	No data available
Germ Cell Mutagenicity:	Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) Species: Mouse (male and female) Strain: NMRI Application Route: Oral Method: OECD Test Guideline 474 Remarks: Negative
Embryotoxicity:	Test type: In vitro gene mutation study in bacteria Metabolic activation: with and without Method: OECD Test Guideline 471 Result: negative Remarks: Read-across (Analogy) Test type: In vitro gene mutation study in mammalian cells Metabolic activation: with and without Method: OECD Test Guideline 476 Result: negative
Specific Target Organ Toxicity:	No data available
Reproductive Toxicity:	NOAEL: 1,000 mg/kg, F1: 1,000 mg/kg Method: OECD Test Guideline 422
Respiratory/Skin Sensitization:	Non-sensitizing
Corrosivity:	No data available
Sensitization:	Non-sensitizing
Irritation:	No skin irritation
Repeated Dose Toxicity:	NOAEL: 200 mg/kg LOAEL: 1,000 mg/kg Method: OECD Test Guideline 422

12 ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Vertebrate:	LC50: > 100 mg/l (Danio rerio) (96h) (OECD Test Guideline 203)
Aquatic Invertebrate:	NOEC: >160 mg/L (Daphnia magna) (48h) (OECD Test Guideline 202) Remarks: Read-across (Analogy) NOEC: 15 mg/L (Ceriodaphnia spec.) (7d) Remarks: Read-across (Analogy)
Terrestrial:	EC50: 14 mg/L (Pseudokirchneriella subcapitata) (72h) (OECD Test Guideline 201) Remarks: Read-across (Analogy) EC50: >100 mg/L (activated sludge of a predominantly domestic sewage) (3h) (OECD Test Guideline 209) Remarks: Read-across (Analogy)
Persistence and Degradability:	No data available.
Bioaccumulative Potential:	No data available.
Mobility in Soil:	No data available.
PBT and vPvB Assessment:	This substance is not identified as a PBT or a vPvB.
Other Adverse Effects:	No data available
Additional Ecological Information:	The product should not be allowed to enter drains, water courses or the soil. Avoid release to the environment. Product does not contain any organic bound Halogens which could lead to AOX-values

13 DISPOSAL CONSIDERATIONS

Waste Residues:	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with all applicable local regulations.
Product Containers:	Consider recycling. Dispose of contents/container in accordance with all applicable local regulations.

The information in section 13 is for the product as shipped. Use and/or alterations to the product may change the characteristics of the material and alter the waste classification and proper disposal methods

14 TRANSPORT INFORMATION

DOT (Dept. of Transportation, USA):	Not restricted.
TDG (Transportation of Dangerous Goods, Canada):	No data available.
IMDG (International Maritime Dangerous Goods):	Not restricted.
IATA (International Air Transport Association):	Not restricted.
ICAO (International Civil Aviation Organization):	No data available.

15 REGULATORY INFORMATION

TSCA Inventory Status:	On TSCA Inventory
CERCLA Reportable Quantity:	This material does not contain any components with a CERCLA RQ.
SARA 311/312 Hazards:	No SARA Hazards
SARA 302	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313:	This product does not contain any toxic chemical listed under Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986.
Clean Water Act:	This product does not contain any Hazardous Substances listed under the U.S. Clean Water Act, Section 311, Table 116.4A.

16 OTHER INFORMATION

Revision Date:	20-Feb-2024
Compliance:	This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200
Disclaimer:	This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.