

Aluminium chloride-6-hydrate extra pure, meets analytical specification**of Ph. Eur., BP, USP****10094118**

Version 6.1

Revision Date 02/05/2026

Print Date 07/15/2026

SECTION 1. IDENTIFICATION

Product name : Aluminium chloride-6-hydrate extra pure, meets analytical specification of Ph. Eur., BP, USP

Number : 000000017139

Product Use Description : Chemical-technical application

Manufacturer or supplier's details : Solstice Advanced Materials US, Inc.
115 Tabor Road
Morris Plains, NJ 07950-2546

For more information call : 1-800-322-2766
+1-973-455-5268(Monday-Friday, 9:00am-5:00pm)

In case of emergency call : **Medical: 1 866-479-8788 or +1 303-739-1378**
: **Transportation (CHEMTREC): 1-800-424-9300 or +1-703-527-3887**
:
: (24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION**Emergency Overview**

Form : solid

Color : colourless

Odor : odourless

Classification of the substance or mixture

Classification of the substance or mixture : Skin corrosion, Category 1B
Serious eye damage, Category 1

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GHS Label elements, including precautionary statements

Symbol(s)

:



Signal word

: Danger

Hazard statements

: H314

Causes severe skin burns and eye damage.

Precautionary statements

: **Prevention:**

P260

Do not breathe dust or mist.

P264

Wash skin thoroughly after handling.

P280

Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P330 + P331

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353

IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340

IF INHALED: Remove victim to fresh air and keep at rest in a position 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/ doctor.

P363

Wash contaminated clothing before reuse.

Storage:

P405

Store locked up.

Disposal:

P501

Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified

: Corrosive to the respiratory tract.

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Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTSFormula : $\text{AlCl}_3 \cdot 6\text{H}_2\text{O}$

Chemical nature : Substance

Chemical name	CAS-No.	Concentration
Aluminium chloride-6-hydrate	7784-13-6	100.00 %

SECTION 4. FIRST AID MEASURES

- General advice : First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately.
- Inhalation : Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Use oxygen as required, provided a qualified operator is present. Call a physician.
- Skin contact : Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. Call a physician if irritation develops or persists.
- Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician if irritation develops or persists.
- Ingestion : Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Call a physician.

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Version 6.1

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Notes to physician

Most important symptoms/effects, acute and delayed : No information available.

Indication of immediate medical attention and special treatment needed, if necessary : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray
Foam
Carbon dioxide (CO₂)
Dry powder

Specific hazards during firefighting : In case of fire hazardous decomposition products may be produced such as:
Aluminum oxides
Hydrogen chloride gas

Special protective equipment for firefighters : Wear self-contained breathing apparatus and protective suit.
No unprotected exposed skin areas.

Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Provide adequate ventilation.
Wear personal protective equipment. Unprotected persons must be kept away.
Avoid dust formation.

Environmental precautions : Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning : Ventilate the area.
Avoid dust formation.

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up

Sweep up and shovel into suitable containers for disposal.
Dispose of in accordance with local regulations.

SECTION 7. HANDLING AND STORAGE**Handling**

Precautions for safe handling : Wear personal protective equipment.
Keep container tightly closed.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Use only in well-ventilated areas.
Avoid dust formation.
Do not swallow.
Avoid breathing dust.
Avoid contact with skin, eyes and clothing.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Storage

Conditions for safe storage, including any incompatibilities : Store in original container.
Keep containers tightly closed in a dry, cool and well-ventilated place.
Protect from atmospheric moisture and water.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective measures : Ensure that eyewash stations and safety showers are close to the workstation location.
Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment.
Avoid breathing dust.

Engineering measures : Use with local exhaust ventilation.

Eye protection : Safety goggles

Hand protection : Impervious gloves
Gloves must be inspected prior to use.

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Version 6.1

Revision Date 02/05/2026

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Replace when worn.

- Skin and body protection : Protective suit
- Respiratory protection : In case of insufficient ventilation wear suitable respiratory equipment.
- Hygiene measures : Take off all contaminated clothing immediately.
Remove and wash contaminated clothing before re-use.
Wash hands before breaks and at the end of workday.
When using do not eat or drink.
Avoid contact with the skin and the eyes.

Exposure Guidelines

Components	CAS-No.	Value	Control parameters	Update	Basis
Aluminium chloride-6-hydrate	7784-13-6	TWA : Time weighted average	2 mg/m ³	10 2006	CAD AB OEL:Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended
Further information	:	Expressed as : as Al			
Aluminium chloride-6-hydrate	7784-13-6	15 MIN ACL : 15 minute average contamination limit:	4 mg/m ³	05 2009	CAD SK OEL:Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended
Further information	:	Expressed as : as Al			

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10094118

Version 6.1

Revision Date 02/05/2026

Print Date 07/15/2026

Aluminium chloride-6-hydrate	7784-13-6	15 MIN ACL : 15 minute average contamination limit:	20 mg/m3	05 2009	CAD SK OEL:Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended
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Further information	:	Form of exposure : Dust. Expressed as : as Al			
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Aluminium chloride-6-hydrate	7784-13-6	TWA : Time weighted average	5 mg/m3	04 2022	OEL (QUE):Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended
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Further information	:	Form of exposure : Respirable dust.			
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Aluminium chloride-6-hydrate	7784-13-6	8 HR ACL : 8 hour average contamination limit:	10 mg/m3	04 2021	CAD SK OEL:Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended
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Further information	:	Form of exposure : Dust. Expressed as : as Al			
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10094118

Version 6.1

Revision Date 02/05/2026

Print Date 07/15/2026

Aluminium chloride-6-hydrate	7784-13-6	8 HR ACL : 8 hour average contamin ation limit:	2 mg/m3	04 2021	CAD SK OEL:Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended
Further information	:	Expressed as : as Al			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: solid
Color	: colourless
Odor	: odourless
Odor threshold	: Note: No data available
pH	: 2.5 - 3.5 at , 20 °C
Flash point	: Note: Not applicable
Evaporation rate	: Note: No data available
Flammability	: The product is not flammable.
Flammable properties	: Note: The substance or mixture does not emit flammable gases in contact with water.
Lower explosion limit	: Note: Not applicable

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Version 6.1

Revision Date 02/05/2026

Print Date 07/15/2026

Upper explosion limit	: Note: Not applicable
Vapor pressure	: 0.00003 hPa at 20 °C(68 °F)
Vapor density	: Note: No data available
Density	: ca.2.4 g/cm ³ at 20 °C
Water solubility	: 477 g/l
Partition coefficient: n-octanol/water	: Note: No data available
Ignition temperature	: Note: Not applicable
Auto-ignition temperature	: Note: not auto-flammable
Decomposition temperature	: Note: No decomposition if used as directed.
Viscosity, dynamic	: Note: Not applicable
Viscosity, kinematic	: Note: Not applicable
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Bulk density	: ca. 700 kg/m ³

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Not classified as a reactivity hazard.
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Version 6.1

Revision Date 02/05/2026

Print Date 07/15/2026

Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Hazardous polymerisation does not occur.
Conditions to avoid	: Protect from atmospheric moisture and water.
Incompatible materials	: Bases
Hazardous decomposition products	: In case of fire hazardous decomposition products may be produced such as: Aluminum oxides Hydrogen chloride gas

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: LD50: 3,470 mg/kg Species: Rat, female Test substance: aluminium chloride, anhydrous
	: LD50: 3,450 mg/kg Species: Rat, male Test substance: aluminium chloride, anhydrous
Acute inhalation toxicity	: Note: No data available
Acute dermal toxicity	: Note: No data available
Skin irritation	: Note: No data available
Eye irritation	: Note: No data available
Sensitisation	: Note: No data available

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Version 6.1

Revision Date 02/05/2026

Print Date 07/15/2026

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

- Toxicity to fish
- : LC50: 27.1 mg/l
Exposure time: 96 h
Species: *Gambusia affinis* (Mosquito fish)
 - : static test
LC50: 36.6 mg/l
Exposure time: 96 h
Species: *Oncorhynchus mykiss* (rainbow trout)
Test substance: aluminium chloride, anhydrous
 - : flow-through test
NOEC: 0.25 mg/l
Exposure time: 42 d
Species: *Oncorhynchus mykiss* (rainbow trout)
Test substance: aluminium chloride, anhydrous
- Toxicity to daphnia and other aquatic invertebrates
- : static test
EC50: 27.3 mg/l
Exposure time: 48 h
Species: *Daphnia magna* (Water flea)
Test substance: aluminium chloride, anhydrous
 - : Reproduction Test
NOEC: 0.8 mg/l
Exposure time: 21 d
Species: *Daphnia magna* (Water flea)
Test substance: aluminium chloride, anhydrous
 - : static test
EC50: 7.4 mg/l
Exposure time: 48 h
Species: *Ceriodaphnia* (water flea)
Test substance: aluminium chloride, anhydrous

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Version 6.1

Revision Date 02/05/2026

Print Date 07/15/2026

Toxicity to algae : Note: No data available

Toxicity to bacteria : LC50: > 1,000 mg/l
Exposure time: 14 d
Species: Eisenia sp. (annelids): NOEC: 100 mg/l
Exposure time: 42 d
Species: Eisenia sp. (annelids)**Further information on ecology****Ecotoxicology Assessment**

Results of PBT assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher., Product does not contain substances that are persistent, mobile, and toxic (PMT/vPvM) at levels of 0.1 % or higher.

Additional ecological information : Harmful to aquatic organisms.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods : Observe all Federal, State, and Local Environmental regulations.

SECTION 14. TRANSPORT INFORMATION

TDG	UN/ID No.	: UN 3260
	Proper shipping name	: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (ALUMINIUM CHLORIDE)
	Class	8
	Packing group	II
	Hazard Labels	8

IATA	UN/ID No.	: UN 3260
	Description of the goods	: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.

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Version 6.1

Revision Date 02/05/2026

Print Date 07/15/2026

		(Aluminium chloride)
Class	:	8
Packaging group	:	II
Hazard Labels	:	8
Packing instruction (cargo aircraft)	:	863
Packing instruction (passenger aircraft)	:	859
Packing instruction (passenger aircraft)	:	Y844
IMDG		
UN/ID No.	:	UN 3260
Description of the goods	:	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
		(ALUMINIUM CHLORIDE)
Class	:	8
Packaging group	:	II
Hazard Labels	:	8
EmS Number	:	F-A, S-B
Marine pollutant	:	no
IMDG Code segregation group (SGG1)	:	ACIDS,

SECTION 15. REGULATORY INFORMATION

Inventories

USA. List of Active Substances on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory, as amended : On TSCA Inventory

Australia. Inventory of Industrial Chemicals (AIIC), as amended : On the inventory, or in compliance with the inventory

Canada. Domestic Substances List (DSL), as amended : All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory

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Korea. Existing Chemicals Inventory (KECI) : On the inventory, or in compliance with the inventory

Philippines. Inventory of Chemicals and Chemical Substances (PICCS) : On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances (IECSC) : On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand : On the inventory, or in compliance with the inventory

Taiwan Chemical Substance Inventory (TCSI) : On the inventory, or in compliance with the inventory

National regulatory information**WHMIS**

Components : Aluminium chloride-6-hydrate 7784-13-6

NPRI

Canadian National Pollutant Release Inventory (NPRI): No component is listed on NPRI.

SECTION 16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 3	3
Flammability	: 0	0
Physical Hazard	: 0	
Instability	:	0

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

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Version 6.1

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Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a 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 material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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Person who prepared the SDS Solstice Product Stewardship Group