

SAFETY DATA SHEET

aluminium chloride, anhydrous

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.

1.1. Product identifier	
Product name	aluminium chloride, anhydrous
Synonyms; trade names	aluminium chloride, anhydrous
CAS number	7446-70-0
EU index number	013-003-00-7
EC number	231-208-1
1.2. Relevant identified uses of	f the substance or mixture and uses advised against
Identified uses	Research and development. Industrial use
Uses advised against	Not suitable for human consumption or veterinary purposes.

1.3. Details of the supplier of the safety data sheet

Supplier

Molekula Ltd. Lingfield Way, Darlington, DL1 4XX, United Kingdom +44 (0) 3302000333 info@molekula.com

1.4. Emergency telephone number

+44 (0) 7769276927

SECTION 2: Hazards identi	ification
2.1. Classification of the su	bstance or mixture
Classification (SI 2019 No.	720)
Physical hazards	Not Classified
Health hazards	Skin Corr. 1B - H314 Eye Dam. 1 - H318
Environmental hazards	Not Classified
2.2. Label elements	
EC number	231-208-1
Hazard pictograms	
Signal word	Danger
Hazard statements	H314 Causes severe skin burns and eye damage.

Precautionary statements	 P260 Do not breathe dust. P264 Wash contaminated skin thoroughly after handling. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P304+P340 IF INHALED: Remove person to fresh air and keep 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. P405 Store locked up. P501 Dispose of contents/ container in accordance with national regulations.
Supplemental label information	EUH014 Reacts violently with water. EUH071 Corrosive to the respiratory tract.

2.3. Other hazards

This substance is not classified as PBT or vPvB according to current UK criteria.

SECTION 3: Composition/information on ingredients	
3.1. Substances	
Product name	aluminium chloride, anhydrous
EU index number	013-003-00-7
CAS number	7446-70-0
EC number	231-208-1
Chemical formula	AICI3

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel. Chemical burns must be treated by a physician.
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. Rinse nose and mouth with water. Never give anything by mouth to an unconscious person. Get medical attention if symptoms are severe or persist.
Ingestion	Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Get medical attention.
Skin contact	It is important to remove the substance from the skin immediately. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes and get medical attention. Chemical burns must be treated by a physician.
Eye contact	Rinse immediately with plenty of water. Do not rub eye. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.
Protection of first aiders	It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation.
4.2. Most important symptoms	and effects, both acute and delayed
General information	The severity of the symptoms described will vary dependent on the concentration and the

length of exposure.

Inhalation	A single exposure may cause the following adverse effects: Severe irritation of nose and throat. Symptoms following overexposure may include the following: Corrosive to the respiratory tract.
Ingestion	May cause chemical burns in mouth, oesophagus and stomach. Symptoms following overexposure may include the following: Severe stomach pain. Nausea, vomiting.
Skin contact	Causes severe burns. Symptoms following overexposure may include the following: Pain or irritation. Redness. Blistering may occur.
Eye contact	Causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness.
4.3. Indication of any immedia	te medical attention and special treatment needed
Notes for the doctor	Treat symptomatically.
SECTION 5: Firefighting meas	sures
5.1. Extinguishing media	
Suitable extinguishing media	Extinguish with dry sand. Use fire-extinguishing media suitable for the surrounding fire.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire. Do not use the following: Foam. Water.
5.2. Special hazards arising fr	om the substance or mixture
Specific hazards	Severe corrosive hazard. Water used for fire extinguishing, which has been in contact with the product, may be corrosive.
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Very toxic or corrosive gases or vapours.
5.3. Advice for firefighters	
Protective actions during firefighting	Avoid breathing fire gases or vapours. Evacuate area. Keep upwind to avoid inhalation of gases, vapours, fumes and smoke. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.
Special protective equipment for firefighters	Regular protection may not be safe. Wear chemical protective suit. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing will provide a basic level of protection for chemical incidents.
SECTION 6: Accidental release	e measures
6.1. Personal precautions, pro	tective equipment and emergency procedures
Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Do not touch or walk into spilled material. Avoid inhalation of dust. Use suitable respiratory protection if ventilation is inadequate. Avoid contact with skin and eyes.

6.2. Environmental precautions

Environmental precautions The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms. Avoid discharge to the aquatic environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. This product is corrosive. Collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. For waste disposal, see Section 13.
6.4. Reference to other section	ns
Reference to other sections	For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.
SECTION 7: Handling and sto	rage
7.1. Precautions for safe hand	ling
Usage precautions	Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Keep container tightly sealed when not in use. This product is corrosive. Immediate first aid is imperative. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.
Advice on general occupational hygiene	Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.
7.2. Conditions for safe storag	e, including any incompatibilities
Storage precautions	Store away from incompatible materials (see Section 10). Store locked up. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage.
	Air sensitive. Store under inert gas. Reacts violently with water.
Storage class	Corrosive storage.
7.3. Specific end use(s)	
Specific end use(s)	The identified uses for this product are detailed in Section 1.2.
SECTION 8: Exposure control	s/Personal protection
8.1. Control parameters	
8.2. Exposure controls	
Protective equipment	

Appropriate engineering controls

Eye/face protection

Hand protection



Provide adequate ventilation. Observe any occupational exposure limits for the product or ingredients.

Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a fullface respirator may be required instead.

Wear protective gloves. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, wear gloves that are proven to be impervious to the chemical and resist degradation. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.

Other skin and body protection	Wear appropriate clothing to prevent any possibility of skin contact.
Hygiene measures	Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.
Respiratory protection	Ensure all respiratory protective equipment is suitable for its intended use and is 'UKCA'- marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges suitable for intended use should be used. Full face mask respirators with replaceable filter cartridges suitable for intended use should be used. Half mask and quarter mask respirators with replaceable filter cartridges suitable for intended use should be used.
Environmental exposure controls	Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

SECTION 10: Stability and reactivity

10.1. Reactivity

Deestivity	
Reactivity	Reacts violently with water.
10.2. Chemical stability	
Stability	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions. Sensitive to Moisture Handle and store under inert gas
10.3. Possibility of hazardous	reactions
Possibility of hazardous	Violent reactions possible with:
reactions	Alcohols. Alkalis.
	Alkali metals.
	Ethylene oxide
	Organic nitro compounds.
	Oxidising agents. Phenols, cresols.
	Water
10.4. Conditions to avoid	
Conditions to avoid	Moisture.
10.5. Incompatible materials	
Materials to avoid	Avoid contact with strong oxidising agents. Strong alkalis. Reacts violently with water.
10.6. Hazardous decomposition	on products
Hazardous decomposition	Does not decompose when used and stored as recommended. Thermal decomposition or
products	combustion products may include the following substances: Corrosive gases or vapours.
SECTION 11: Toxicological in	formation
SECTION II. TOXICOlogical III	IOIIIduoII
11.1. Information on toxicolog	
	ical effects
11.1. Information on toxicolog	
11.1. Information on toxicolog Acute toxicity - oral	ical effects
11.1. Information on toxicolog Acute toxicity - oral Summary	ical effects
<u>11.1. Information on toxicolog</u> <u>Acute toxicity - oral</u> Summary Acute toxicity - dermal	<i>ical effects</i> Based on available data the classification criteria are not met. Based on available data the classification criteria are not met.
<u>11.1. Information on toxicolog</u> <u>Acute toxicity - oral</u> Summary <u>Acute toxicity - dermal</u> Summary	<i>ical effects</i> Based on available data the classification criteria are not met.
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<u>11.1. Information on toxicolog</u> <u>Acute toxicity - oral</u> Summary <u>Acute toxicity - dermal</u> Summary <u>Acute toxicity - inhalation</u> Summary	<i>ical effects</i> Based on available data the classification criteria are not met. Based on available data the classification criteria are not met.
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11.1. Information on toxicolog Acute toxicity - oral Summary Acute toxicity - dermal Summary Acute toxicity - inhalation Summary Acute toxicity - inhalation Summary Skin corrosion/irritation Summary Serious eye damage/irritation Summary Respiratory sensitisation	ical effects Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Causes severe skin burns and eye damage. Causes serious eye damage.
11.1. Information on toxicolog Acute toxicity - oral Summary Acute toxicity - dermal Summary Acute toxicity - inhalation Summary Acute toxicity - inhalation Summary Skin corrosion/irritation Summary Serious eye damage/irritation Summary Respiratory sensitisation Summary	ical effects Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Causes severe skin burns and eye damage. Causes serious eye damage.
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IABC acreine genieit	None of the ingradients are listed or everynt
IARC carcinogenicity	None of the ingredients are listed or exempt.
Reproductive toxicity Summary	Based on available data the classification criteria are not met.
Specific target organ toxicity -	single exposure
Summary	Corrosive to the respiratory tract.
Target organs	Respiratory system, lungs
Specific target organ toxicity -	repeated exposure
Summary	Based on available data the classification criteria are not met.
Aspiration hazard Summary	Not relevant. Solid.
General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	Corrosive to the respiratory tract. Symptoms following overexposure may include the following: Severe irritation of nose and throat.
Ingestion	May cause chemical burns in mouth, oesophagus and stomach. Symptoms following overexposure may include the following: Severe stomach pain. Nausea, vomiting.
Skin contact	Causes severe burns. Symptoms following overexposure may include the following: Pain or irritation. Redness. Blistering may occur.
Eye contact	Causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness.
Route of exposure	Ingestion Inhalation Skin and/or eye contact
	5
Target organs	No specific target organs known.
-	No specific target organs known.
Target organs	No specific target organs known.
Target organs SECTION 12: Ecological infor	No specific target organs known. mation Not regarded as dangerous for the environment. However, large or frequent spills may have
Target organs SECTION 12: Ecological infor Ecotoxicity	No specific target organs known. mation Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.
Target organs SECTION 12: Ecological infor Ecotoxicity <u>12.1. Toxicity</u>	No specific target organs known. mation Not regarded as dangerous for the environment. However, large or frequent spills may have
Target organs SECTION 12: Ecological infor Ecotoxicity <u>12.1. Toxicity</u> Acute aquatic toxicity	No specific target organs known. mation Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.
Target organs SECTION 12: Ecological infor Ecotoxicity <u>12.1. Toxicity</u> Acute aquatic toxicity Summary Acute toxicity - aquatic	No specific target organs known. mation Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. Based on available data the classification criteria are not met.
Target organs SECTION 12: Ecological infor Ecotoxicity <u>12.1. Toxicity</u> Acute aquatic toxicity Summary Acute toxicity - aquatic invertebrates Acute toxicity -	No specific target organs known. mation Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. Based on available data the classification criteria are not met. EC ₅₀ , 48 hours: 27.3 mg/l, Daphnia magna
Target organs SECTION 12: Ecological infor Ecotoxicity <u>12.1. Toxicity</u> Acute aquatic toxicity Summary Acute toxicity - aquatic invertebrates Acute toxicity - microorganisms Chronic aquatic toxicity Summary	No specific target organs known. mation Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. Based on available data the classification criteria are not met. EC ₅₀ , 48 hours: 27.3 mg/l, Daphnia magna EC10, 180 minutes: > 1000 mg/l, Activated sludge Based on available data the classification criteria are not met.
Target organs SECTION 12: Ecological infor Ecotoxicity 12.1. Toxicity Acute aquatic toxicity Summary Acute toxicity - aquatic invertebrates Acute toxicity - microorganisms Chronic aquatic toxicity Summary 12.2. Persistence and degrade	No specific target organs known. mation Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. Based on available data the classification criteria are not met. EC ₅₀ , 48 hours: 27.3 mg/l, Daphnia magna EC10, 180 minutes: > 1000 mg/l, Activated sludge Based on available data the classification criteria are not met.
Target organs SECTION 12: Ecological infor Ecotoxicity 12.1. Toxicity Acute aquatic toxicity Summary Acute toxicity - aquatic invertebrates Acute toxicity - microorganisms Chronic aquatic toxicity Summary 12.2. Persistence and degrada Persistence and degradability	No specific target organs known. mation Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. Based on available data the classification criteria are not met. ECso, 48 hours: 27.3 mg/l, Daphnia magna EC10, 180 minutes: > 1000 mg/l, Activated sludge Based on available data the classification criteria are not met. ability The degradability of the product is not known.
Target organs SECTION 12: Ecological infor Ecotoxicity 12.1. Toxicity Acute aquatic toxicity Summary Acute toxicity - aquatic invertebrates Acute toxicity - microorganisms Chronic aquatic toxicity Summary 12.2. Persistence and degrade	No specific target organs known. mation Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. Based on available data the classification criteria are not met. ECso, 48 hours: 27.3 mg/l, Daphnia magna EC10, 180 minutes: > 1000 mg/l, Activated sludge Based on available data the classification criteria are not met. ability The degradability of the product is not known.
Target organs SECTION 12: Ecological infor Ecotoxicity 12.1. Toxicity Acute aquatic toxicity Summary Acute toxicity - aquatic invertebrates Acute toxicity - microorganisms Chronic aquatic toxicity Summary 12.2. Persistence and degrada Persistence and degrada 12.3. Bioaccumulative potentia	No specific target organs known. mation Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. Based on available data the classification criteria are not met. EC ₅₀ , 48 hours: 27.3 mg/l, Daphnia magna EC10, 180 minutes: > 1000 mg/l, Activated sludge Based on available data the classification criteria are not met. ability The degradability of the product is not known. a

ADN class

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aluminium chloride, anhydrous

12.4. Mobility in soil	
Mobility	No data available.
12.5. Results of PBT and vPvE	<u>3 assessment</u>
<u>12.6. Other adverse effects</u> Other adverse effects	None known.
SECTION 13: Disposal consid	
13.1. Waste treatment method	
General information	The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.
Disposal methods	Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Incineration or landfill should only be considered when recycling is not feasible.
SECTION 14: Transport inform	nation
General	For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section.
14.1. UN number	
UN No. (ADR/RID)	1726
UN No. (IMDG)	1726
UN No. (ICAO)	1726
UN No. (ADN)	1726
14.2. UN proper shipping nam	e
Proper shipping name (ADR/RID)	ALUMINIUM CHLORIDE, ANHYDROUS
Proper shipping name (IMDG)	ALUMINIUM CHLORIDE, ANHYDROUS
Proper shipping name (ICAO)	ALUMINIUM CHLORIDE, ANHYDROUS
Proper shipping name (ADN)	ALUMINIUM CHLORIDE, ANHYDROUS
14.3. Transport hazard class(e	?S)
ADR/RID class	8
ADR/RID classification code	C2
ADR/RID label	8
IMDG class	8
ICAO class/division	8
	0

Transport labels



14.4. Packing group

ADR/RID packing group	II
IMDG packing group	II
ICAO packing group	II
ADN packing group	II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

IMDG Code segregation group	1. Acids
EmS	F-A, S-B
ADR transport category	2
Emergency Action Code	4W
Hazard Identification Number (ADR/RID)	80
Tunnel restriction code	(E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

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

National regulations	Health and Safety at Work etc. Act 1974 (as amended).
	The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment
	Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].
	EH40/2005 Workplace exposure limits.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Inventories

EU - EINECS/ELINCS

None of the ingredients are listed or exempt.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways. RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail. IATA: International Air Transport Association. ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air. IMDG: International Maritime Dangerous Goods. CAS: Chemical Abstracts Service. ATE: Acute Toxicity Estimate. LC50: Lethal Concentration to 50 % of a test population. LD50: Lethal Dose to 50% of a test population (Median Lethal Dose). EC₅₀: 50% of maximal Effective Concentration. PBT: Persistent, Bioaccumulative and Toxic substance. vPvB: Very Persistent and Very Bioaccumulative.
Classification abbreviations and acronyms	Eye Dam. = Serious eye damage Skin Corr. = Skin corrosion
Classification procedures according to SI 2019 No. 720	Eye Dam. 1 - H318: Skin Corr. 1B - H314: : Expert judgement.
Training advice	Only trained personnel should use this material.
Revision date	05/05/2022
Revision	1
SDS number	924
Hazard statements in full	H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage.

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 process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.