

## Section 1 Identification

1.1	Substance	Aluminium chloride hydroxide
	CAS Number	1327-41-9
	REACH Registration No.	01-2119531563-40006
1.2	Relevant identified uses of the substances or misuse	
	Uses of Material	Product for waste water treatment

## Section 2 Hazard Identification

### 2.1 Classification of the mixture (Regulation (EC) No 1272/2008)

Skin corrosion, Category 1B H314: Causes severe skin burns and eye damage.

#### Classification (67/548/EEC, 1999/45/EC)

Corrosive R34: Causes burns.

#### Label elements

Labelling (REGULATION (EC) No 1272/2008)

#### Hazard Pictograms



Hazard Statements	H314	Causes severe skin burns and eye damage
Precautionary Statements.	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

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 or doctor/ physician.

**Disposal:**

P501

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

**Supplementary Hazard Information –**

**Hazardous components which must be listed on the label:**

1327-41-9

aluminium chloride hydroxide

**Other hazards**

When undiluted and not properly handled, can cause burns or can be irritating to the skin and eyes and upon inhalation.

## Section 3 Composition

### 3.1 Substances

Chemical name of the substance aluminium chloride hydroxide  
CAS-No. 1327-41-9  
EINECS-No 215-477-2  
REACH No 01-2119531563-43-0006

**Hazardous components**

Chemical Name	CAS-No. EC No.	Classification	GHS Classification	Concentration [%]
aluminium chloride hydroxide	1327-41-9 215-477-2	C; R34	Skin Corr.1B; H314	100

For the full text of the R-phrases mentioned in this Section, see Section 16.

**Mixtures**

Not applicable product is a substance

## Section 4 First Aid

### 4.1 Description of first aid measures

General advice	Take Risk and Safety phrases (section 15) into account
Eyes	Irrigate with plenty of water for 15 minutes, holding the eye open
Skin	Remove contaminated clothes. Wash thoroughly with water (and soap)
Inhalation	Remove from exposure site to fresh air and keep at rest. Obtain medical advice
Ingestion	Wash out patient's mouth with water. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed:

Symptoms	No information available
Risks	No information available

4.3 Indication of any immediate medical attention and special treatment needed

Treatment	No information available
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## Section 5 Fire Fighting

5.1 **Extinguishing Media**

Suitable extinguishing media	carbon dioxide, dry chemical, foam
Unsuitable extinguishing media	Do not use a direct water jet on burning material

5.2 **Special hazards arising from the substance or mixture**

Specific hazards during fire fighting	Water may be ineffective
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5.3 **Advice for fire fighters**

Further information	Standard procedure for chemical fires.
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## Section 6 Accidental Release Measures

6.1 **Personal precautions, protective equipment and emergency procedures**

Personal precautions	Avoid inhalation and contact with skin and eyes. A self-contained breathing apparatus is recommended in case of a major spill.
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6.2 **Environmental precautions**

Environmental precautions	Keep away from drains, surface and groundwater and soil.
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### 6.3 Methods and materials for containment and cleaning up

#### Methods for cleaning up

Clean up spillage promptly. Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Gross spillages should be contained by use of sand or inert powder and disposed of according to the local regulations.

#### Reference to other sections

Prevent spreading over a wide area (e.g. by containment or oil barriers).

## Section 7 Storage and Handling

### 7.1 Precautions for safe handling

#### Advice on safe handling

Avoid excessive inhalation of concentrated vapors. Follow good manufacturing practices for housekeeping and personal hygiene. Wash any exposed skin immediately after any chemical contact, before breaks and meals, and at the end of each work period.

Contaminated clothing and shoes should be thoroughly cleaned before re-use.

If appropriate, procedures used during the handling of this material should also be used when cleaning equipment or removing residual chemicals from tanks or other containers, especially when steam or hot water is used, as this may increase vapor concentrations in the workplace air. Where chemicals are openly handled, access should be restricted to properly trained employees.

Keep all heated processes at the lowest necessary temperature in order to minimize emissions of volatile chemicals into the air.

#### Advice on protection against fire and explosion

Keep away from ignition sources and naked flame

### 7.2 Conditions for safe storage, including any incompatibilities

#### Requirements for storage areas and containers

Store in a cool dry ventilated area away from heat sources. Keep containers upright and tightly closed when not in use.

### 7.3 Specific end uses

#### Specific use(s)

No information available.

## Section 8 Workplace Exposure and Personal Protection

## 8.1 Control Parameters

Contains no substances with occupational exposure limit values.

## 8.2 Exposure Controls

### Engineering measures

Where appropriate, use closed systems to transfer and process this material.

If appropriate, isolate mixing rooms and other areas where this material is used or openly handled. Maintain these areas under negative air pressure relative to the rest of the plant.

### Personal protective equipment

#### Respiratory protection

Use local exhaust ventilation around open tanks and other open sources of potential exposures in order to avoid excessive inhalation, including places where this material is openly weighed or measured. In addition, use general dilution ventilation of the work area to eliminate or reduce possible worker exposures.

No respiratory protection is required during normal operations in a workplace where engineering controls such as adequate ventilation, etc. are sufficient.

If engineering controls and safe work practices are not sufficient, an approved, properly fitted respirator with organic vapor cartridges or canisters and particulate filters should be used:

- a) while engineering controls and appropriate safe work practices and/or procedures are being implemented; or
- b) during short term maintenance procedures when engineering controls are not in normal operation or are not sufficient; or
- c) if normal operational workplace vapor concentration in the air is increased due to heat ;
- d) during emergencies; or
- e) if engineering controls and operational practices are not sufficient to reduce airborne concentrations below an established occupational exposure limit.

#### Head protection

Avoid skin contact. Use chemically resistant gloves.

#### Eye protection

Use tight fitting goggles, face shield or safety glasses with side shields if eye contact might occur.

#### Hygiene measures

To the extent deemed appropriate, implement pre-placement and regularly scheduled ascertainment of symptoms and spirometry

testing of lung function for workers who are regularly exposed to this material.

To the extent deemed appropriate, use an experienced air sampling expert to identify and measure volatile chemicals that could be present in the workplace air to determine potential exposures and to ensure the continuing effectiveness of engineering controls and operational practices to minimize exposure.

### 8.3 Environmental exposure controls

General advice

Keep away from drains – surface, groundwater and soil.

## Section 9 Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

Appearance	liquid
Colour	pale yellow
Odour	non odor grade material
Odour Threshold	not determined
Flash point	61 °C
Lower explosion limit	not determined
Upper explosion limit	not determined
Flammability (solid, gas)	not determined
Oxidizing properties	not determined
Autoignition temperature	not determined
pH	not determined
Melting point	not determined
Boiling point	not determined
Vapour pressure	not determined
Density	not determined
Water solubility	not determined
Partition coefficient: n- octanol/water	not determined
Solubility in other solvents	not determined
Viscosity, dynamic	not determined
Viscosity, kinematic	not determined
Relative vapour density	not determined
Evaporation rate	not determined

### 9.3 Other information

Refractive index	not determined
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## Section 10 Stability and Reactivity

<b>10.1 Reactivity</b>	No hazards to be specially mentioned
<b>10.2 Chemical Stability.</b>	It is stable under normal conditions
<b>10.3 Possibility of hazardous reactions</b>	Note: Presents no significant reactivity hazard, by itself or in contact with water. Avoid contact with strong acids, alkali or oxidizing agents.
<b>10.4 Conditions to avoid</b>	Direct sources of heat
<b>10.5 Incompatible materials</b>	Avoid contact with strong acids, alkali or oxidizing agents
<b>10.6 Hazardous decomposition products</b>	Carbon monoxide, corrosive fumes and unidentified organic compounds may be formed during combustions.

## Section 11 Toxicological Information

### 11.1 Information on toxicological effects

#### Acute toxicity

Skin corrosion / irritation	No information available.
Serious eye damage/eye irritation	No information available.
Respiratory or skin sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
Target Organ Systemic Toxicant - Single exposure	No information available.
Target Organ Systemic Toxicant - Repeated exposure	No information available.
Aspiration hazard	No information available.

## Section 12 Ecological

### 12.1 Toxicity

<b>Persistence and degradability</b>	No information available.
Bioaccumulative potential	No information available.
Mobility in soil	Results of PBT and vPvB assessment
<b>Other adverse effects</b>	No information available.

## Section 13 Disposal Considerations

### 13.1 Waste Treatment Methods

Product	Dispose of according to local regulations. Avoid disposing into drainage systems and into the environment.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.

## Section 14 Transport information

### ADR

UN number	: 3264
Description of the goods	: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (ALUMINUM CHLORIDE HYDROXIDE)
Labels	: 8
Packing group	: III
Environmentally hazardous	: no

### IATA

UN number	: 3264
Description of the goods	: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (ALUMINUM CHLORIDE HYDROXIDE)
Labels	: 8
Packing group	: III
Environmentally hazardous	: no

### IMDG

UN number	: 3264
Description of the goods	: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (ALUMINUM CHLORIDE HYDROXIDE)
Labels	: 8
Packing group	: III
Marine pollutant	: no

**Special precautions for user** : No special precautions required.



## Section 15 Regulatory Information

### 15.1 Safety health and environment regulations / legislation specific for the substance or mixture

#### Labelling — EU Directives 67/548/EEC or 1999/45/EC—

Symbol(s)	C	Corrosive
R-phrase(s)	R34	Causes burns.
S-phrase(s)	S24/25 S36/37/39	Avoid contact with skin and eyes. Wear suitable protective clothing, gloves and eye / face protection.

Water contaminating class (Germany)      WGK 3 highly water endangering

#### Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this product.

## Section 16 Other Information

### Full text of R-phrases referred to under sections 2 and 3

**R34            Causes burns**

### Full text of H-Statements referred to under sections 2 and 3.

**H314                            Causes severe skin burns and eye damage.**

#### Further information

In December 2003, the National Institute for Occupational Safety and Health ("NIOSH") published an Alert on preventing lung disease in workers who use or make flavorings [NIOSH Publication Number 2004-110]. In August 2004, the United States Flavor and Extract Manufacturers Association (FEMA) issued a report entitled "Respiratory Safety in the Flavor Manufacturing Workplace".

Both of these reports provide recommendations for reducing employee exposure and for medical surveillance in the workplace. The recommendations in these reports are generally applicable to the use of any chemical in the workplace and you are strongly urged to review both of these reports.

The report published by FEMA also contains a list of "high priority" chemicals. If any of these chemicals are present in this product at a concentration  $\geq 1.0\%$  due to an intentional addition by IFF, the chemical(s) will be identified in this safety data sheet.

According to Regulation (EC) No. 1907/2006 the information in this safety data sheet is based on the properties of the material known to IFF at the time the data sheet was issued. The safety data sheet is intended to provide information for a health and safety assessment of the material and the circumstances under which it is packaged, stored or applied in the workplace. For such a safety assessment International Flavors & Fragrances holds no responsibility. This document is not intended for quality assurance purposes nor does it constitute a workplace risk assessment.

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