

# **MATERIAL SAFETY DATA SHEET**

## According to the UN GHS revision 9

Version: 1.0 Creation Date: July 15, 2019 Revision Date: July 15, 2019

# **SECTION 1: Identification**

## **1.1GHS Product identifier**

Product nameAluminium ammonium bis(sulphate)

## 1.20ther means of identification

Product number	-
Other names	Exsiccated ammonium alum;Ammonium aluminum alum;Curb

### 1.3Recommended use of the chemical and restrictions on use

Identified uses	Industrial and scientific research use.		
Uses advised against	no data available		

## **1.4Supplier's details**

Company Shandong Yili-Spring Chemical Industry Co., Ltd.	
Address 1016, Xinyue Fortune Center, Zouping County, Binzhou City, S	
Telephone	86-543-4865599

#### **1.5Emergency phone number**

Emergency phone number	+86 15505433527
Service hours	Monday to Friday, 8am-5pm (Standard time zone: UTC/GMT +8 hours).

# **SECTION 2: Hazard identification**

## 2.1Classification of the substance or mixture

Not classified.

#### 2.2GHS label elements, including precautionary statements

Pictogram(s)	No symbol.
Signal word	No signal word
Hazard statement(s)	none



Precautionary	statement(s)

Prevention	none
Response	none
Storage	none
Disposal	none

## 2.3Other hazards which do not result in classification

no data available

# **SECTION 3: Composition/information on ingredients**

## 3.1Substances

Chemical name	Common names and synonyms	CAS number	EC number	Concentration
Aluminium ammonium bis(sulphate)	Aluminium ammonium bis(sulphate)	7784-25-0	232-055-3	100%

# **SECTION 4: First-aid measures**

## 4.1Description of necessary first-aid measures

#### If inhaled

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

#### Following skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

#### Following eye contact

Rinse with pure water for at least 15 minutes. Consult a doctor.

#### Following ingestion

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

## 4.2Most important symptoms/effects, acute and delayed

no data available

# 4.3Indication of immediate medical attention and special treatment needed, if necessary

no data available



# **SECTION 5: Fire-fighting measures**

## 5.1Suitable extinguishing media

Use dry chemical, carbon dioxide or alcohol-resistant foam.

## 5.2Specific hazards arising from the chemical

no data available

## 5.3Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

## **SECTION 6: Accidental release measures**

## 6.1Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

## **6.2Environmental precautions**

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

## 6.3Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

# **SECTION 7: Handling and storage**

## 7.1Precautions for safe handling

Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

## 7.2Conditions for safe storage, including any incompatibilities

Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials.

# **SECTION 8: Exposure controls/personal protection**

## 8.1Control parameters

**Occupational Exposure limit values** 



no data available

#### **Biological limit values**

no data available

#### 8.2Appropriate engineering controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

### 8.3Individual protection measures, such as personal protective equipment (PPE)

#### **Eye/face protection**

Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).

#### Skin protection

Wear fire/flame resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### **Respiratory protection**

If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.

#### Thermal hazards

no data available

# **SECTION 9: Physical and chemical properties and safety characteristics**

Physical state	Solid. Powder.
Colour	White.
Odour	no data available
Melting point/freezing point	94.5 °C.
Boiling point or initial boiling	> 193 °C. Atm. press.:1 atm. Remarks:No data on experimental atmosphere
point and boiling range	pressure conditions.
Flammability	no data available
Lower and upper explosion	no data available
limit/flammability limit	
Flash point	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
рН	no data available
Kinematic viscosity	dynamic viscosity (in mPa s) = 1.369. Temperature:20°C. Remarks:Saturated
	solution (9.993 g/100 g = 104.6 g/L).;dynamic viscosity (in mPa s) = 1.203.
	Temperature:30.0°C. Remarks:Saturated solution (13.801 g/100 g = 146.5



#### SHANDONG YILI-SPRING CHEMICAL INDUSTRY CO., LTD.

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	g/L).;dynamic viscosity (in mPa s) = $1.095$ . Temperature:40°C.
	Remarks:Saturated solution (18.878 g/100 g = 204.3 g/L).
Solubility	In water: 11.5 %m/m. Temperature:25 °C. Remarks:Expressed as hydrated
	ammonium alum (NH4)2 Al2(SO4)4.24 H2 O.
Partition coefficient	no data available
n-octanol/water	
Vapour pressure	Remarks:Esentially zero.
Density and/or relative density	1 643 kg/m <sup>3</sup> . Temperature:25 °C.
Relative vapour density	no data available
Particle characteristics	no data available

# **SECTION 10: Stability and reactivity**

## **10.1Reactivity**

no data available

## **10.2Chemical stability**

no data available

## 10.3Possibility of hazardous reactions

no data available

#### **10.4Conditions to avoid**

no data available

## **10.5Incompatible materials**

no data available

## **10.6Hazardous decomposition products**

no data available

# **SECTION 11: Toxicological information**

#### Acute toxicity

- Oral: no data available
- Inhalation: no data available
- Dermal: no data available

#### Skin corrosion/irritation

no data available



#### Serious eye damage/irritation

no data available

#### Respiratory or skin sensitization

no data available

#### Germ cell mutagenicity

no data available

#### Carcinogenicity

no data available

#### **Reproductive toxicity**

no data available

#### **STOT-single exposure**

no data available

#### **STOT-repeated exposure**

no data available

#### Aspiration hazard

no data available

## **SECTION 12: Ecological information**

#### **12.1Toxicity**

- Toxicity to fish: NOEC Danio rerio (previous name: Brachydanio rerio) >= 0.105 mg/L 96 h. Remarks:Al.
- Toxicity to daphnia and other aquatic invertebrates: NOEC Daphnia magna > 160 mg/L 48 h.
- Toxicity to algae: NOEC Chlorella vulgaris  $\geq$  500 mg/L 21 d.
- Toxicity to microorganisms: EC50 activated sludge, domestic > 1 000 mg/L 3 h. Remarks:Respiration rate.

#### 12.2Persistence and degradability

no data available

#### **12.3Bioaccumulative potential**

no data available

#### 12.4Mobility in soil

no data available



## 12.50ther adverse effects

no data available

# **SECTION 13: Disposal considerations**

## **13.1Disposal methods**

#### Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

#### **Contaminated packaging**

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

# **SECTION 14: Transport information**

### 14.1UN Number

ADR/RID: Not dangerous goods. (For reference only, please check.)		IATA: Not dangerous goods. (For reference only, please check.)
14.2UN Proper Shipping Na	ime	
ADR/RID: Not dangerous goods. (For reference only, please check.)		IATA: Not dangerous goods. (For reference only, please check.)
14.3Transport hazard class(	(es)	
ADR/RID: Not dangerous goods. (For reference only, please check.)	IMDG: Not dangerous goods. (For reference only, please check.)	IATA: Not dangerous goods. (For reference only, please check.)
14.4Packing group, if applic	eable	
ADR/RID: Not dangerous goods. (For reference only, please check.)	<b>e e</b> (	IATA: Not dangerous goods. (For reference only, please check.)
14.5Environmental hazards		
ADR/RID: No	IMDG: No	IATA: No
14 6Special precautions for	user	

## 14.6Special precautions for user

no data available

## 14.7Transport in bulk according to IMO instruments



# **SECTION 15: Regulatory information**

# 15.1Safety, health and environmental regulations specific for the product in question

Chemical name	Common names and synonyms	CAS number	EC number
Aluminium ammonium bis(sulphate)	Aluminium ammonium bis(sulphate)	7784-25-0	232-055-3
European Inventory of Existing Commercial Chemical Substances (EINECS)			
EC Inventory			Listed.
United States Toxic Substances Control Act (TSCA) Inventory			Listed.
China Catalog of Hazardous chemicals 2015			Not Listed.
New Zealand Inventory of Chemicals (NZIoC)			
Philippines Inventory of Chemicals and Chemical Substances (PICCS)			Listed.
Vietnam National Chemical Inventory			Listed.
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)			Listed.
Korea Existing Chemicals List (KECL)			Listed.

# **SECTION 16: Other information**

#### Information on revision

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#### Abbreviations and acronyms

- CAS: Chemical Abstracts Service
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
- IMDG: International Maritime Dangerous Goods
- IATA: International Air Transportation Association
- TWA: Time Weighted Average
- STEL: Short term exposure limit
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- EC50: Effective Concentration 50%

#### References

• IPCS - The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home



- HSDB Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm
- IARC International Agency for Research on Cancer, website: http://www.iarc.fr/
- eChemPortal The Global Portal to Information on Chemical Substances by OECD, website: http://www.echemportal.org/echemportal/index?pageID=0&request\_locale=en
- CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple
- ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp
- ERG Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg
- Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp
- ECHA European Chemicals Agency, website: https://echa.europa.eu/

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