



**SAFETY DATA SHEET
ALUMINUM SULFATE TYPE A, LIQUID**

DATE OF ISSUE: 05/2023

VER 02

1. IDENTIFICATION OF THE PRODUCT AND MANUFACTURING COMPANY

PRODUCT: ALUMINUM SULFATE TYPE A, LIQUID

SYNONYMS: SALH LTA, SALH L

RECOMMENDED USED: PRIMARY FOR WATER TREATMENT, PULP AND PAPER INDUSTRY, TEXTILE INDUSTRY, CEMENT INDUSTRY.

MANUFACTURING COMPANY

Ferro-Aluminio, C.A. (FERRALCA)

Moron-Coro National Highway. Mixed Companies Area Moron, Edo. Carabobo.

MANUFACTURER'S TELEPHONE NUMBER

Telf. 0242-414.43.86 de 7:30 am a 11:00 pm.

Cel. (+58) 412-285.68.02 /58 412-327.28.41/+58 412-851.64.57/+58 412-443.07.99/+58 412-3272839.

EMERGENCY PHONE NUMBER 911

2. HAZARD IDENTIFICATION

Danger Indications:

H318	Serious eye injuries.
H400	Hazardous to the aquatic environment.
H411	Toxic to aquatic organisms, with harmful effects.

Precautionary Advice:

P273	Do not disperse in the environment
P280	Wear protective gloves, clothing and equipment for eyes and expensive
P391	Collect spills.

3. PRODUCT COMPONENTS

% Al ₂ O ₃	8,00 mín.
% Fe ₂ O ₃	0,03 máx.
% Insoluble	0,20 máx.
Density g/cm ³	1,325 mín.

4. EMERGENCY PROCEDURES

Eyes:	Wash with plenty of water for 15 minutes.
Skin and mucosa	Remove contaminated clothing and wash the affected area with soap and water.
Inhalation:	Remove the person from the area to a ventilated area with fresh air.
Ingestion:	Do not induce vomiting and seek medical assistance



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5. FIRE-FIGHTING MEASURES

Autoignition temperature: Flash:	Null.
Flammable temperature	Null.
Limits of flammable/explosive mixture	Null.
Nature and Risk of Decomposition	Produces SO, SO2 y SO3 at high temperatures.
Products by Fire:	
Possibilities of Dust	Not applicable.

6. ACTION IN THE EVENT OF SPILL

Fire and explosion risk:	Null
Evacuation of people and fencing of the area:	Evacuate people to a distance that does not interfere with relief work.
Ventilation:	It does not require special measures.
Containment, Neutralization:	Stop leak or spill if you can do it without risk. If necessary, neutralize with lime, soda hash, or dilute caustic soda.
Personal protective equipment:	Gloves, safety boots, long-sleeved shirt, eye protection
Equipment decontamination:	Wash with water.
Environmental Protection:	Prevent the product from entering the sewage system or bodies of water
Waste collection, treatment and collection	Absorb the product with sand or other material. Neutralize with lime or diluted caustic soda for fine disposa
Sanitation and final cleaning:	Thoroughly clean area, if necessary neutralize with lime

7. PRECAUTIONS FOR HANDLING AND USE

Hygiene measures:	Wash hands thoroughly after handling this product. Handle in accordance with good industrial hygiene and safety practices. No eating, drinking or smoking in work areas. Appropriate corrosion resistant materials, hermetically sealed.
Suitable containers:	
Storage:	Store in a dry and cool place.
Incompatibility:	Alkalis, avoid contact with pure steel or galvanized surfaces.
	Use
Handling:	Personal protective equipment



FERRO-ALUMINIO, C.A.

RIF. J-00100989-2

Dirección: Carretera Nacional Morón Coro, Área de empresas mixtas.
Morón-Edo. Carabobo. Venezuela. Teléfonos: +58 242 4211001-2031-2032.
Web: www.ferralca.com.ve/ E-mail: ventas@ferralca.com.ve

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8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Personal protective equipment:	Long-sleeved shirt, gloves, safety boots, safety glasses, khaki pants or other appropriate.
Installations in workplaces:	eyewash; first aid kit with eye drops, gauze.
Personal hygiene after handling:	Change of clothes. Wash with soap and water.
Prohibitions:	Do not eat, drink or smoke during work.
Staff education and training:	Precautions in the handling of materials susceptible to cause damage to health and the environment

9. COMMON PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colorless to light, amber liquid.
Smell:	Soft characteristic
% as $Al_2(SO_4)_3 \cdot nH_2O$	94,5-99,5
% as Fe_2O_3:	< 0,05
%Material insoluble in water:	<0,50
%Water of crystallization:	≤ 42,50 máx.
pH, direct	3,2-3,8
Melting point:	>700°C.
Decomposition temperature:	>760°C.
Vapor pressure:	Null at 25 °C.
Vapor density:	Null at 25 °C.
Apparent density	0,9 -1,1 Ton/m ³
Evaporation rate	Not determined.
Percent volatiles by volume:	Not determined.
Water solubility:	1 Kg/L de agua at 25 °C.
Solubility in solvents:	Null.

10. REACTIVITY AND ESTABILITY

Stability at room temperature:	Stable.
Spontaneous polymerization when mixed with another:	Null.
Incompatibilities with others substances:	Strong oxidizing agents.
Corrosion decomposition of metals:	Susceptible to low pH.
Spontaneous ignition on contact with water:	Null.
Hazardous decomposition products:	Sulfur oxides at temperatures above a 760 °C.



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11. TOXICOLOGY

Main routes of entry into the body	Ingestion.
Health Effect:	Eyes and skin irritations due to prolonged exposure
Carcinogenic properties:	Not carcinogenic.
Oral LD50, rat:	> 1,930mg/kg.
Inhalation LD50, rat:	2,000 mg/m ³ air
Primary irritation:	Direct contact with this material may cause moderate irritation to the respiratory system.

12. ECOTOXICOLOGY

Fish toxicity:	Slightly toxic.
Plant toxicity:	Slightly toxic.
Persistence of degradation in air, water and soil:	Not biodegradable and persistent.
Bioaccumulation:	Less than 0,002 % of that taken orally.

13. WASTE MANAGEMENT

Storage:	Closed containers, hermetic, packaging.
Transport:	Tanks, bags, big bags, corrosion-resistant hermetic containers
Treatment, type and residual products, recycling and/or reuse:	Dilute with water and neutralize with lime, generation of sludge. Reuse in effluent treatment.
Disposal of containers:	Wash with water and dispose of as nonhazardous waste.
Final disposition:	After neutralizing dispose as non-hazardous waste.

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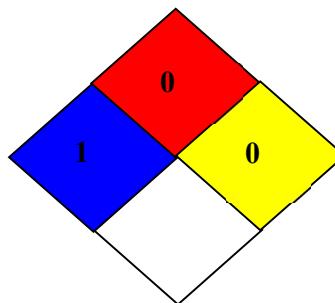
14. TRANSPORT

Product name:	Aluminum sulfate type A, Liquid.
UN N°:	3264/154.
CAS N°	10043-01-3
IENECS N°	233-135-0
Relative Class	8
Article	9C
Packing/ Packaging Group if applicable	III
Environmental risk	Does not present a danger to the environment according to ADR criteria.

Risk Identification

NFPA Pictogram

Health	1
Flammability	0
Reactivity	0



15. LEGAL REQUERIMENTS

COVENIN 4001:00	Official standars in SGSHO.
1005/2009/CE Ozone layer	Substance not dangerous for the ozone
2004/42/CE Volatile organic content of compounds (VOC)	layer not dangerous.

16. ADDITIONAL INFORMATION

The information contained in this document is presumed to be accurate according to the sources consulted as of the date of issuance. Ferro-Aluminio C.A is not responsible for the misinterpretation or misuse of the information contained in this sheet.