Version: 10.2022

Material safety data sheet

According to EU Regulation 1907/2006 in the current version

ALUM POWDER

1. Identification of the substance/mixture and company

Trade name:	Alum Powder
I.N.C.I.	Potassium Alum
CAS No. :	7784-24-9
Utilization:	Raw material for cosmetic industry.
Supplier company identification:	Elemental SRL, Piața Cazărmii no.15, 410188-Oradea, jud.Bihor, Romania Tel/Fax: +40259-436.755, www.ellemental.com
Emergency:	RO: număr național pentru cazuri de urgență: 021 3183606 Institutul de Sănătate Publică București. International emergency number: +49 180 2273-112

2. Hazards Identification

2.1. Classification of the substance or mixture
Classification according to Regulation (EC) No. 1272/2008 (CLP)
Not classified
Additional information
Full text of precautionary measures is detailed in section 16.

2.2. Label elements
Labelling according to Regulation (EC) No. 1272/2008 (CLP)
Hazard Pictograms : No pictogram
Signal words : None
Hazard statements : None
Precautionary statements : None
Supplemental Hazard information (EU) : Not applicable

2.3. Other hazards
No additional information available.

3. Declaration of ingredients

3.1. Substances
Potassium alum
CAS-No. : 7784-24-9
EC-No. : 233-141-3
No components need to be disclosed according to the applicable regulations
3.2. Mixtures
Not applicable

4. First aid measures

4.1. Description of first aid measures
After eye contact : P305+351+338 Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P313 Get medical advice/attention.

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After skin contact : P302+352 Wash with plenty of water.
After inhalation : P304+340 Remove person to fresh air and keep comfortable for breathing.
After swallowing : P314 Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed
Symptoms/ effects : None known

4.3. Indication of any immediate medical attention and special treatment needed
Treatment : None known

5. Fire fighting measures

5.1 Means of extinction
Do not use water to extinguish fire. Use foam fire extinguishers, with carbon dioxide or powder.

5.2 Special hazards arising from the substance or mixture
Specific hazards arising from the chemical: It may produce toxic fumes of carbon monoxide if burning. P260 Do not breathe fumes.

5.3 Recommendations for fire-fighters
Specific methods of fire-fighting: P381 Eliminate all ignition sources if safe to do so.
Fight fire from the windward side with suitable extinguish media.
Evacuate all non-essential personnel from affected area.
Use water to cool fire-exposed containers and facilities.
Special protective equipment and precautions for fire-fighters:
Wear fire protective equipment.
Avoid the contamination of the environment by fire-fighting wastewater.

6. Accidental release measures

6.1 Personal precautions, protective devices and emergency procedures
Wear appropriate respiratory protection. Use personal protective clothing. Avoid contact with the skin, eyes and clothing. In case of large spills, evacuate area.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

6.2 Environmental precautions
Prevent product or liquids contaminated with product from entering sewers, drains, soil or open water course.

6.3 Methods and materials for containment and cleaning up
Sweep up and shovel. Keep in suitable, closed containers for disposal

6.4. Reference to other sections
For disposal see section 13.

7. Handling and storage

7.1 Precautions for safe handling

Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Storage class: Non Combustible Solids
7.3. Specific end use(s)
No additional information available.

8. Exposure controls / personal protection

8.1. Control parameters
Occupational Exposure limit values : No data available
Control parameters : Not determined

8.2. Exposure controls
Engineering measures : Provide local exhaust ventilation in case it produces fume/gas/mist/vapours.
Protective measures : Handle in accordance with good industrial hygiene and safety practices.
Personal protection equipment : Provide an emergency eye/face wash fountain and quick drench shower in the immediate work area.
Respiratory protection : As appropriate to situation
Hands protection : Chemical resistant gloves
Eyes protection : Safety goggles
Body protection : Long sleeved work clothes
Hygiene measures : Wash your hands thoroughly after handling

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties
a) Appearance Form: solid
b) Odour No data available
c) Odour Threshold No data available
d) pH 3.0 -3.5
e) Melting point/freezing point
Melting point/range: 92 °C
f) Initial boiling point and boiling range No data available
g) Flash point Not applicable
h) Evaporation rate No data available
i) Flammability (solid, gas) No data available
j) Upper/lower flammability or explosive limits No data available
k) Vapour pressure No data available
l) Vapour density No data available
m) Relative density 1.757 g/mL at 25 °C
n) Water solubility No data available
o) Partition coefficient: noctanol/water No data available
p) Auto-ignition temperature No data available
q) Decomposition temperature No data available
r) Viscosity No data available

s) Explosive properties No data available
t) Oxidizing properties No data available

9.2. Other information
No additional information available.

10. Stability and reactivity

Stable under normal conditions of use.
10.1. Reactivity
No information available
10.2. Chemical stability
Stable under normal conditions
10.3. Possibility of hazardous reactions
No information available
10.4. Conditions to avoid
Superheating
10.5. Incompatible materials
Strong oxidizing agents, bases
10.6. Hazardous decomposition products
Other decomposition products - No data available. In the event of a fire see section 5.

11. Toxicological information

11.1 Information on toxicological effects
Acute toxicity
No data available
Inhalation: No data available
Dermal: No data available
No data available
Skin corrosion/irritation
No data available
Serious eye damage/eye irritation
No data available
Respiratory or skin sensitisation
No data available
Germ cell mutagenicity
No data available
Carcinogenicity
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: 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.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available
Specific target organ toxicity - single exposure
No data available
Specific target organ toxicity - repeated exposure
No data available
Aspiration hazard
No data available

12. Ecological information

12.1. Toxicity
Acute toxicity (Fish, Daphnia, Algae) : No data available
Chronic toxicity (Fish, Daphnia, Algae) : No data available
12.2. Persistence and degradability
No data available
12.3. Bioaccumulative potential
No data available
12.4. Mobility in soil
No data available
12.5. Results of PBT and vPvB assessment
Not applicable
12.6. Endocrine disrupting properties
No data available
12.7. Other adverse effects
No data available

13. Disposal considerations

13.1. Waste treatment methods
Dispose of contents/container in accordance with local/regional/national/international regulations.

14. Transport information

Compliant with the rules of ADR/RID land transport (not relevant to ADN Inland waterways), IATA air transport and IMDG-Code sea transport:
14.1. UN number or ID number
UN number： Not applicable
14.2. UN proper shipping name
UN proper shipping name : Not applicable
14.3. Transport hazard class(es)
UN Model Regulations : Not applicable
Land transport (ADR/RID)： Not applicable
Inland waterways (ADN)： Not applicable
Maritime transport (IMDG-Code) : Not applicable
Air transport (ICAO/IATA-DGR) : Not applicable
14.4. Packing group

UN Model Regulations : Not applicable
Land transport (ADR/RID)： Not applicable
Inland waterways (ADN)： Not applicable
Maritime transport (IMDG-Code) : Not applicable
Air transport: ICAO/IATA-DGR : Not applicable
14.5. Environmental hazards
Environmental hazards : No data available
14.6. Special precautions for user
Before loading and transport, check the containers to prevent leakage and damages.
Transport, packaging and labels are compliant with regulations.
14.7. Maritime transport in bulk according to IMO instruments Not applicable [Japanese regulations]
Land transport : Compliant with Fire and Disaster Management Act and Industrial Safety and Health Act
Maritime transport : Compliant with Ship Safety Act
Air transport : Compliant with Civil Aeronautics Act

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture [EU regulations (
Authorisations and/or restrictions on use: None
Not classified as hazardous
15.2. Chemical safety assessment
No Chemical Safety Assessment has been carried out for this substance.

16. Additional information

16.1 Abbreviations
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Test-ing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regula-tion (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergen-cy Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration as-sociated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good La-boratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships car-rying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - Interna-tional Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; INCI: International Nomenclature of Cosmetic Ingredients; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test popula-tion; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - Interna-tional Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Ef-fect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic sub-stance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quanti-tative) Structure Activity Relationship; PNEC: Predicted No Effect Concentration; REACH - Regulation (EC) No

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1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Re-striction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; STE: Short-term exposure; STEL: Short Term Exposure limit; STOT: Specific Target Organ Toxicity; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative.

16.2 Other information
None

Disclaimer: This material safety data sheet does not constitute a guarantee of the properties of the product and is not a contractual legal report. The information is given in good faith on the basis of our best knowledge of the product at the indicated time. However, we cannot accept responsibility or liability for any consequences arising from its use, no warranty for correctness and completeness is given. We caution the users against the incurred possible risks when the product is used at other ends than the use for which it was initially planned. It is the user's responsibility during handling, storage and product use to consult the main regulatory texts in force regarding workers and environment protection.