# SAFETY DATA SHEET

**SB-632**

**MoEL's Public Notice No. 2025-50 Standards for Classification and Labeling of Chemical Substances and Safety Data Sheet (SDS)**



## Section 1: PRODUCT AND COMPANY IDENTIFICATION

**A. Product name** SB-632

**Chemical Name** Aluminum Hydroxide

**Pure substance/mixture** Substance

**B. Recommended use and Limitations on use**

**Recommended Use** Flame retardant.

**Uses advised against** None known

**C. Supplier information**

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## Section 2: HAZARDS IDENTIFICATION

**A. Hazard category/Classification**

**Physical Hazards** Not classified.

**Health Hazards** Not classified.

**Environmental Hazards** Not classified.

**B. Warning label items including precautionary statement**

**Label Elements**

**Symbols/Pictograms** None

**Signal Words** None

**Hazard Statements** None

**Precautionary statement**

| | |
|---|---|
| **Prevention** | Employ good industrial hygiene practice<br>Do not handle until all safety precautions have been read and understood<br>Do not breathe dust<br>Wear protective gloves/protective clothing/eye protection/face protection |
| **Response** | IF ON SKIN: Wash with plenty of soap and water |
| **Storage** | Store away from incompatible materials |
| **Disposal** | Dispose of contents/containers in accordance with local regulations |

**Additional Information:** None.

**C. Other hazards not included in the hazard category criteria (e.g. dust explosion hazard)**
None known

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

**Pure substance/mixture** Substance

| Chemical Name | CAS NUMBER: | S. Korea (KECL) | Korean GHS Classification | Weight-% |
|---|---|---|---|---|
| Aluminum Hydroxide | 21645-51-2 | KE-00980 | Not classified. | 100 |

## Section 4: FIRST AID MEASURES

**A. In case of eye contact** Rinse with water. Get medical attention if irritation develops and persists.

**B. In case of skin contact** Wash off with soap and water. Get medical attention if irritation develops and persists.

**C. In case of inhalation** Move to fresh air. Call a physician if symptoms develop or persist.

**D. In case of swallowing** Rinse mouth. Get medical attention if symptoms occur.

**E. Note to physician** Treat symptomatically.

## Section 5: FIRE FIGHTING MEASURES

**A. Suitable (and unsuitable) extinguishing media**

| | |
|---|---|
| **Suitable extinguishing media** | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). |
| **Unsuitable extinguishing** | None known |

**media**

**B. Specific hazards arising from the chemical (example: hazardous combustion products)**

**Explosion hazard:** None known

**C. Specific methods of fire-fighting**
Self-contained breathing apparatus and full protective clothing must be worn in case of fire. In the event of fire and/or explosion do not breathe fumes. Move container from fire area if it can be done without risk.

## Section 6: SPILLAGE, ACCIDENTAL RELEASE MEASURES

**A. Personal precautions, protective equipment and emergency measures** Ensure adequate ventilation. Avoid dust formation. See section 8 for more information.

**B. Environmental precautions** Not considered to be harmful to aquatic life. Avoid discharge into drains, water courses or onto the ground.

**C. Methods and materials for containment and cleaning up** Vacuum or sweep material and place in a disposal container.

## Section 7: HANDLING AND STORAGE

**A. Precautions for safe handling**
In case of exposure to environments exceeding the occupational exposure limit, wear a respirator in compliance with national legislation.

**B. Conditions for safe storage (including any incompatibilities)**
Keep container tightly closed in a dry and well-ventilated place

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**A. Exposure limit values, biological limit values, etc**

**Aluminum Hydroxide**

| | |
|---|---|
| **ACGIH** | TLV/TWA 8-hr: 1 mg/m$^3$ (respirable fraction) |
| **OSHA** | TWA: 15 mg/m$^3$ (Total Dust)<br>5 mg/m$^3$ (Respirable Dust) |

**B. Engineering Controls**

**Engineering Measures** Ensure adequate ventilation, especially in confined areas
Provide a good standard of controlled ventilation (10 to 15 air changes per hour)

**C. Personal protective equipment**

| | |
|---|---|
| • **Respiratory protection** | In case of inadequate ventilation wear respiratory protection. |
| • **Eye protection** | If contact is likely, safety glasses with side shields are recommended. |
| • **Hand protection** | For prolonged or repeated skin contact use suitable protective gloves. |
| • **Body protection** | Wear suitable protective clothing. |

**Hygiene Measures** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| **Physical State** | Solid<br>Powder |
| **Odor** | Odorless |
| **Odor Threshold** | No information available |
| **pH:** | 8.4 - 10.2 5% Water suspension |
| **Melting point / Freezing point** | ca 300 °C / 572 °F (101.3 kPa) |
| **Initial boiling point** | 5396 °F (2980 °C) 101.3 kPa |
| **Flash Point** | Not applicable |
| **Evaporation Rate** | Not applicable |
| **Flammability** | Not applicable |
| **Upper flammability limit:** | No data available |
| **Lower flammability limit:** | No data available |
| **Vapor Pressure** | Not applicable |
| **Relative Vapor Density** | Not applicable |
| **Relative Density** | 2.4 g/cm3, 20° C |
| **Water Solubility** | Insoluble |
| **Solubility in other solvents** | No information available |
| **Partition coefficient** | No information available |
| **Autoignition Temperature** | Not applicable |
| **Decomposition Temperature** | 392 °F (200 °C) |
| **Viscosity** | Not applicable |
| **Kinematic viscosity** | No data available. |
| **Explosive Properties** | None |
| **Oxidizing Properties** | Not applicable |

**VOC Content (%)** Not applicable

## Section 10: STABILITY AND REACTIVITY

**A. Stability and hazardous reaction potential**

**Stability** Stable under normal conditions

**Hazardous reaction potential** None known

**B. Conditions to avoid (e.g. static discharge, shock or Vibration, etc)** Avoid creating dust. Incompatible materials.

**C. Incompatible materials** Strong oxidizing agents

**D. Hazardous decomposition products** No hazardous decomposition products are known.

## Section 11: TOXICOLOGICAL INFORMATION

**A. Information on likely routes of exposure**

- **Mouth** Not an expected route of exposure
- **Eyes** Dust contact with the eyes can lead to mechanical irritation
- **Skin** Prolonged skin contact may cause temporary irritation.

**B. Information on health hazards**

**Aluminum Hydroxide**

**Oral LD50** > 2000 mg/kg Rat

**Aluminum Hydroxide**

**IARC** Not Listed

| | |
|---|---|
| **Acute Toxicity** | Based on available data, the classification criteria are not met. |
| **Chronic Toxicity** | Based on available data, the classification criteria are not met. |
| **Chronic Effects** | Based on available data, the classification criteria are not met. |
| **Respiratory Sensitization** | No information available |
| **Serious eye damage/eye irritation** | Non-irritant Rabbit |
| **Skin Corrosion/Irritation** | Non-irritant Rabbit |
| **Skin Sensitization** | Based on available data, the classification criteria are not met. Not a skin sensitizer Guinea pig |
| **Mutagenicity** | in vitro Not genotoxic in bacteria and mammalian cell systems.<br>in vivo Mutagenicity (micronucleus test) Rat Negative (weight of evidence approach) |
| **Germ cell mutagenicity** | No information available. |
| **Reproductive Effects** | Based on available data, the classification criteria are not met. |
| **Reproductive Toxicity** | Based on available data, the classification criteria are not met. |
| **Carcinogenicity** | Based on available data, the classification criteria are not met. |

**Specific target organ toxicity - Single exposure** Not classified.

**Specific target organ toxicity - Repeated exposure** No information available.

**Mixture versus substance information** No information available.

## Section 12: ECOLOGICAL INFORMATION

**A. Ecotoxicity**

**Hazardous to the aquatic environment, acute hazard** Not classified.
Avoid runoff to waterways and sewers

**Hazardous to the aquatic environment, long-term hazard** Not classified.
Avoid runoff to waterways and sewers

**Ecologically hazardous substances** None known
Avoid runoff to waterways and sewers

**B. Persistence/degradability** No data available

**C. Bioaccumulative potential** No data available

**D. Mobility in soil** No data available

**E. Other adverse effects** No data available

## Section 13: DISPOSAL CONSIDERATIONS

**A. Method of disposal**
Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose in accordance with all applicable regulations.

**B. Disposal considerations (including disposal of contaminated containers or packaging)** Disposal should be in accordance with applicable regional, national and local laws and regulations

## Section 14: TRANSPORT INFORMATION

**Mode of Transportation (Road, Water, Air, Rail)**

| | |
|---|---|
| **ADR** | Not regulated |
| **RID** | Not regulated |
| **ADN** | Not regulated |
| **IATA** | Not regulated |
| **IMDG/IMO** | Not regulated |
| **ICAO** | Not regulated |

**14.1. UN number** None

**14.2. UN proper shipping name** None

**14.3. Transport hazard class(es)** None

**14.4. Packing group** None

**14.5. Environmental hazards** No

**14.6. Special precautions for user** Not applicable

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

**A. Method of disposal**
Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose in accordance with all applicable regulations.

**B. Disposal considerations (including disposal of contaminated containers or packaging)** Disposal should be in accordance with applicable regional, national and local laws and regulations

## Section 15: REGULATORY INFORMATION

**National Regulations**

| | |
|---|---|
| **Chemical Name** | Aluminum Hydroxide |
| **CAS NUMBER:** | 21645-51-2 |
| **Weight-%** | 100 |
| **Korean GHS Classification** | Not classified. |
| **Toxic Release Inventory Chemicals - Group 1** | Not applicable |
| **Toxic Release Inventory Chemicals - Group 2** | Not applicable |

**Industrial Safety and Health Law**

Occupational exposure limits (OEL) See section 8

**Chemicals Control Act (CCA)**
Not applicable

**Dangerous Substances Safety Management Act**
Not applicable

**Wastes Control Act**
Manage and dispose of waste in accordance with national and local regulations

**Act on Registration, Evaluation, etc. of Chemicals (K-REACH)**
Registered

**Unconfirmed hazard substances**
Not applicable

**Other domestic and foreign regulations**

**Global Inventories**

| Chemical Name | CAS NUMBER: | EC No | EU REACH registration number | Australia (AIIC) | Canada (DSL) | China (IECSC) | Japan | S. Korea (KECL) | Mexico | New Zealand | Philippines (PICCS) | Taiwan | TSCA: United States |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum Hydroxide | 21645-51-2 | 244-492-7 | 01-2119529246-39 | Y | Y | Y | (1)-17 (ENCS); ISHL | KE-00980 | Y | Y | Y | Y | A |

X / Y: Complies ; A: Active ; - / N: Exempt / Not Listed

## Section 16: OTHER INFORMATION

**A. Source of Information**

**Abbreviations and acronyms**
IARC (International Agency for Research on Cancer)
IATA (International Air Transport Association)
IMDG (International Maritime Dangerous Goods)
IUCLID (International Uniform Chemical Information Database)
WHMIS (Workplace Hazardous Materials Information System)
DOT (Department of Transportation)
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
TWA (Time-Weighted Average)
CLP (The Classification, Labeling and Packaging of Substances and Mixtures Regulation (EC 1272/2008))
PPE (Personal Protection Equipment)
NIOSH (National Institute for Occupational Safety and Health)
TDG (Transport of Dangerous Goods) Canada
CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act)
RQ (Reportable Quantity) (RQ/% in mixture)
STEL (Short Term Exposure Limit)
TLV® (Threshold Limit Value)
DNEL (Derived No Effect Level)
SVHC (Substances of Very High Concern)
BOD (Biochemical oxygen demand)
COD (Chemical oxygen demand)
ICAO (International Civil Aviation Organization)

IMDG (International Maritime Dangerous Goods)
ADR (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
RID (Agreement Concerning the International Carriage of Dangerous Goods by Rail)
SCBA (Self-Contained Breathing Apparatus) Positive Pressure
PNEC (Predicted No Effect Concentration)
TSCA (Toxic Substances Control Act)
GHS (Globally Harmonized System)

**B. Issue Date** 25/Jun/2026
**Print Date** 26/Jun/2026

**C. Number of revisions and Date of most recent revision** 1.3.2

**D. Other**

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**End of Safety Data Sheet**