

Material Safety Data Sheet

Aluminium Sulphate

Section 1 - Chemical Product and Company Identification

MSDS Name : Aluminium Sulphate
Synonyms : Aluminium trisulphate
Company Identification : Tradeasia International Pte Ltd
133 Cecil Street # 12-03 Keck Seng Tower, Singapore
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Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent by weight
10043-01-3	Aluminium Stearate	100%

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance : White solid.

Caution : May cause eye, skin, and respiratory tract irritation. Hygroscopic (absorbs moisture from the air). This is expected to be a low hazard for usual industrial handling.

Target Organs : None.

Potential Health Effects

Eye : Dust may cause mechanical irritation.

Skin : May cause skin irritation. Low hazard for usual industrial handling.

Ingestion : Ingestion of large amounts may cause gastrointestinal irritation. Expected to be a low ingestion hazard.

Inhalation : May cause respiratory tract irritation. Low hazard for usual industrial handling.

Chronic : No information found.

Section 4 - First Aid Measures

Eyes

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

Ingestion

If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Notes to Physician

Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media

Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Flash Point

Not available.

Autoignition Temperature

Not available.

Explosion Limits, Lower

Not available.

Upper

Not available.

NFPA Rating

(estimated) Health: 1; Flammability: 0; Instability: 0

Section 6 – Accidental Release Measures

General Information

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks

Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Provide ventilation.

Section 7 - Handling and Storage

Handling

Wash thoroughly after handling. Use only in a well-ventilated area. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage

Store in a tightly closed container. Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from water. Store protected from moisture.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls

Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Aluminum sulfate	2 mg/m ³ TWA (as Al) (listed under Aluminum, soluble salts).	2 mg/m ³ TWA (as Al) (listed under Aluminum, soluble salts).	none listed

OSHA Vacated PELs

Aluminum sulfate: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin

Wear appropriate protective gloves to prevent skin exposure.

Clothing

Wear appropriate protective clothing to prevent skin exposure.

Respirators

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State	: Solid
Appearance	: white
Odor	: none reported
pH	: >2.9 at 5% solution.
Vapor Pressure	: Negligible.
Vapor Density	: Not available.
Evaporation Rate	: Negligible.
Viscosity	: Not available.
Boiling Point	: Not available.
Freezing/Melting Point	: 770 deg C
Decomposition Temp	: 770 deg C
Solubility	: Soluble.
Specific Gravity/Density	: 2.7 (water=1)
Molecular Formula	: $\text{Al}_2(\text{SO}_4)_3$
Molecular Weight	: 342.1358

Section 10 - Stability and Reactivity

Chemical Stability : Stable under normal temperatures and pressures. Hygroscopic: absorbs moisture or water from the air.

Conditions to Avoid : Dust generation, exposure to moist air or water.

Incompatibilities with Other Materials : No significant incompatibilities identified with common materials and contaminants.

Hazardous Decomposition Products : Oxides of sulfur, aluminum oxide.

Hazardous Polymerization : Has not been reported.

Section 11 - Toxicological Information

RTECS#:

CAS# 10043-01-3 : BD1700000

LD50/LC50 : CAS# 10043-01-3: Draize test, rabbit, eye: 10 mg/24H Severe; Oral, mouse:
LD50 = 6207 mg/kg;

Carcinogenicity : CAS# 10043-01-3: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology : No information found

Teratogenicity : No information found

Reproductive Effects : No information found

Mutagenicity : No information found

Neurotoxicity : No information found

Section 12 - Ecological Information

No information available.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Section 14 - Transportation Information

No information available

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 10043-01-3 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

CAS# 10043-01-3: 5000 lb final RQ; 2270 kg final RQ

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 10043-01-3: immediate, delayed.

Section 313 No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depleters.

This material does not contain any Class 2 Ozone depleters.

Clean Water Act:

CAS# 10043-01-3 is listed as a Hazardous Substance under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

Not available.

Risk Phrases:

Not available.

Safety Phrases:

Not available.

WGK (Water Danger/Protection)

CAS# 10043-01-3: 1

Canada - DSL/NDSL

CAS# 10043-01-3 is listed on Canada's DSL List.

Canada – WHMI: Not available.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

CAS# 10043-01-3 (listed as Aluminum, soluble salts) is listed on the Canadian Ingredient Disclosure List.

Section 16 - Other Information

Notice:

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall Tradeasia International Pte. Ltd. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Tradeasia International Pte.Ltd has been advised of the possibility of such damages.