



MATERIAL SAFETY DATA SHEET

Section 1: Chemical Product and Company Identification

Product Name : POTASSIUM STEARATE

Other means of identification : None

Recommended use : Not available

Recommended restrictions : None known

Distributor information

Company : Aurora Industry Co.,Ltd.

Address :Room 7033, No.9-1, Haifu Road, Dalian Free Trade Zone, China

Tel:0411-82288674

Section 2: Composition and Information on Ingredients

Substances

Chemical name : Potassium Stearate

Common name and synonyms : Potassium salt of stearic acid
Potassium salt of octadecanoic acid

Molecular Formula : C₁₈H₃₆O₂K

Molecular Weight : 310 g/mol

CAS number: 593-29-3

EINECS Number : 209-786-1

Impurities/stabilizing additives : None

Section 3: Hazards Identification

Classification of the chemical in accordance with paragraph (d) of 29 CFR 1910.1200

Combustible dust

For the full text of the H-statements mentioned in this Section, see Section 16

GHS Label elements in accordance with paragraph (f) of 29 CFR 1910.1200

Pictogram : None

Signal word : Warning

Hazard statement : May form combustible dust concentrations in air

Precautionary statement : None

Hazards not otherwise classified (HNOC) or not covered by GHS

Combustible dust

Supplemental information : None

Section 4: First Aid Measures

Description of necessary measures

Inhalation : If dust from the material is inhaled, remove the affected person immediately to fresh air.

Call a physician if symptoms develop or persist.

Skin contact : Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact : Do not rub eyes. Rinse with water. Get medical attention if irritation develops or persists.

Ingestion : Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed :

Dusts may irritate the respiratory tract, skin and eyes.

Indication of immediate medical attention and special treatment needed :

Provide general supportive measures and treat symptomatically.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Suitable extinguishing media



Alcohol resistant foam, water fog, dry chemical powder, carbon dioxide (CO₂). Apply extinguishing media carefully to avoid creating airborne dust.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Explosion hazard: Avoid generating dust; fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Use standard firefighting procedures and consider the hazards of other involved materials. May form combustible dust concentrations in air.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Use only non-sparking tools. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of dust from the spilled material. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). The product is immiscible with water and will sediment in water systems. Stop the flow of material, if this is without risk.

Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Collect dust using a vacuum cleaner equipped with HEPA filter. Minimize dust generation and accumulation. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small Spills: Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Section 7: Handling and Storage

Precautions for safe handling

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Explosion proof general and local exhaust ventilation. Minimize dust generation and accumulation. Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Avoid breathing dust. Avoid contact with eyes. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Keep containers tightly closed in a dry, cool and well ventilated place. Store away from incompatible materials (see Section 10 of the SDS)

Section 8: Exposure Controls/Personal Protection

OSHA permissible exposure limits

USA ACGIH Threshold Limit Values

Material : Potassium Stearate (CAS 593-29-3)

Type : TWA

Value : 10 mg/m³



Biological limit values : No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn.

Individual protection measures, such as personal protective equipment

Eye/face protection : Use tight fitting goggles if dust is generated.

Hand protection : Wear appropriate chemical resistant gloves.

Skin protection : Wash and dry skin if chemical contacts skin.

Other : Wear suitable protective clothing.

Respiratory protection : If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

Section 9: Physical and Chemical Properties

a. Appearance

Form : Powder

Color : White

b. Odor : fatty odor

c. Odor threshold : Not available

d. pH (in H₂O) : Not available

e. Melting point/freezing point : 419 °F (215 °C)

f. Initial boiling point & range : Not applicable

g. Flash point : 230 °C (C.O.C. method)

h. Evaporation rate : None

i. Flammability limit in air : 20 g/m³ for particles < 74 microns

j. Explosive limit

lower (%) : Not available

upper (%) : Not available

k. Vapor pressure : Not available

l. Vapor density : Not available

m. Density at 70 °C : 1.06 g/cm³

n. Solubility (water) : Soluble

o. Partition coefficient

n-octanol/water : Not available

p. Auto-ignition temperature : > 260 °C

q. Decomposition temperature : approximately 270 °C

r. Viscosity : Not available

Other information

Bulk density : 250 – 350 g/l

Section 10: Stability and Reactivity Data

a. Reactivity : The product is stable and non-reactive under normal conditions of use, storage and transport.

b. Chemical stability : Material is stable under normal conditions.

c. Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.

d. Conditions to avoid : Keep away from heat, sparks and open flame. Contact with incompatible materials.

Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Minimize dust generation and accumulation.

e. Incompatible materials : Strong oxidizing agents.

f. Hazardous decomposition products : No hazardous decomposition products are known.



Section 11: Toxicological Information

a. Information on likely routes of exposure

Ingestion : Expected to be a low ingestion hazard.

Inhalation : Prolonged inhalation may be harmful. Inhalation of dusts may cause respiratory irritation.

Skin contact : No adverse effects due to skin contact are expected.

Eye contact : Dust in the eyes will cause irritation.

b. Symptoms related to the physical, chemical and toxicological characteristics

Dusts may irritate the respiratory tract, skin and eyes.

c. Delayed and immediate effects and also chronic effects from short- and long-term exposure

Dusts may irritate the respiratory tract, skin and eyes.

d. Numerical measures of toxicity

Acute toxicity : Not available.

Skin corrosion/irritation : Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation : Dust in the eyes will cause irritation.

Respiratory or skin sensitization : This product is not expected to cause skin sensitization.

Germ cell mutagenicity : No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Reproductive toxicity : This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure : Not classified

Specific target organ toxicity - repeated exposure : Not classified

Aspiration hazard : Not available

Chronic effects : Prolonged inhalation may be harmful

e. Carcinogenicity

This product is not considered to be a carcinogen by

Section 12: Ecological Information

a. Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

b. Persistence and degradability

No data is available on the degradability of this product.

c. Bioaccumulative potential

No data available

d. Mobility in soil

No data available

e. Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

Section 13: Disposal Considerations

a. Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Dispose of contents/container in accordance with local/regional/national/international regulations.⁵

b. Local disposal regulations

Dispose in accordance with all applicable regulations.

c. Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

d. Waste from residues/ unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe



manner (see: Disposal instructions).

e. Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Section 14: Transport Information

a. UN number/DOT number : Not regulated as dangerous goods

TDG : Not regulated as dangerous goods

IMDG : Not regulated as dangerous goods

IATA : Not regulated as dangerous goods

b. UN proper shipping name : Not applicable

c. Transport hazard class : Not applicable

d. Packing group : Not applicable

e. Environmental hazardous : Not applicable

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

g. Special precautions : Not applicable

Section 15: Other Regulatory Information

US federal regulations

This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

CERCLA Hazardous Substance List (40 CFR 302.4) : Not listed

SARA 304 Emergency release notification : Not regulated

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) : Not listed

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories : Immediate Hazard - No

Delayed Hazard - No

Fire Hazard - Yes

Pressure Hazard - No

Reactivity Hazard - No

SARA 302 Extremely hazardous substance : Not listed

SARA 311/312 Hazardous chemical : No

SARA 313 (TRI reporting) : Not regulated

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List : Not regulated

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) : Not regulated

Safe Drinking Water Act (SDWA) : Not regulated

Food and Drug Administration (FDA) : Indirect food additive

US state regulations

US. Massachusetts RTK - Substance List : Not regulated

US. New Jersey Worker and Community Right-to-Know Act : Not listed

US. Pennsylvania Worker and Community Right-to-Know Law : Not listed

US. Rhode Island RTK : Not regulated.

US. California Proposition 65 : California Safe Drinking Water and Toxic Enforcement Act of 1986

(Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No



China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Section 16: Other Information

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Further information : Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

HMIS® ratings : Health: 0

Flammability: 0

Physical hazard: 0

NFPA ratings : Health: 0

Flammability: 0

Instability: 0

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