

Aluminum potassium sulfate dodecahydrate**12623-6X1KG**

Version 1.1

Revision Date 07/26/2021

Print Date 05/11/2023

SECTION 1. IDENTIFICATION

Product name : Aluminum potassium sulfate dodecahydrate

Number : 000000021028

Product Use Description : Laboratory chemicals

Manufacturer or supplier's details : Honeywell International Inc.
1953 South Harvey Street
Muskegon, MI 49442

For more information call : 1-800-368-0050
+1-231-726-3171(Monday-Friday, 9:00am-5:00pm)

In case of emergency call : **Medical: 1-800-498-5701 or +1-303-389-1414**
: **Transportation (CHEMTREC): 1-800-424-9300 or**
: **+1-703-527-3887**
:
: (24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION**Emergency Overview**

Form : crystalline

Color : colourless

Odor : odourless

Classification of the substance or mixture

Not a hazardous substance or mixture according to the Globally Harmonised System (GHS).

Precautionary statements : **Prevention:**
Use personal protective equipment as required.

Hazards not otherwise : Repeated or prolonged exposure may irritate eyes, skin and

Aluminum potassium sulfate dodecahydrate**12623-6X1KG**

Version 1.1

Revision Date 07/26/2021

Print Date 05/11/2023

classified respiratory system.

Carcinogenicity

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, IARC, or OSHA.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTSFormula : $\text{AlKSO}_4 \cdot 12\text{H}_2\text{O}$

Chemical nature : Substance

Chemical name	CAS-No.	Concentration
Aluminum potassium sulfate, 12-hydrate	7784-24-9	100.00 %

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area. Show this safety data sheet to the doctor in attendance.

Inhalation : Call a physician if irritation develops or persists.

Skin contact : After contact with skin, wash immediately with plenty of water. Call a physician if irritation develops or persists.

Eye contact : Protect unharmed eye. Rinse thoroughly with plenty of water, also under the eyelids. Call a physician immediately.

Ingestion : Immediately give large quantities of water to drink. If accidentally swallowed obtain immediate medical attention.

Notes to physician

Most important symptoms/effects, acute and delayed : No information available.

Aluminum potassium sulfate dodecahydrate**12623-6X1KG**

Version 1.1

Revision Date 07/26/2021

Print Date 05/11/2023

Indication of immediate medical attention and special treatment needed, if necessary : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray
Foam
Carbon dioxide (CO2)
Dry powder

Specific hazards during firefighting : The product itself does not burn.
Fire may cause evolution of:
Sulphur oxides

Special protective equipment for firefighters : Wear self-contained breathing apparatus and protective suit.
No unprotected exposed skin areas.

Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.
Wear personal protective equipment. Unprotected persons must be kept away.
Avoid dust formation.
Avoid contact with skin, eyes and clothing.

Environmental precautions : Do not flush into surface water or sanitary sewer system.
Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleaning up : Use mechanical handling equipment.
Sweep up and shovel into suitable containers for disposal.
Dispose of in accordance with local regulations.

SECTION 7. HANDLING AND STORAGE**Handling**

Aluminum potassium sulfate dodecahydrate**12623-6X1KG**

Version 1.1

Revision Date 07/26/2021

Print Date 05/11/2023

Precautions for safe handling : Wear personal protective equipment.
Use only in well-ventilated areas.
Avoid inhalation, ingestion and contact with skin and eyes.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Storage

Conditions for safe storage, including any incompatibilities : Store in original container.
Keep containers tightly closed in a dry, cool and well-ventilated place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective measures : Ensure that eyewash stations and safety showers are close to the workstation location.
Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment.
Avoid breathing dust.
Avoid contact with skin, eyes and clothing.

Engineering measures : Local exhaust

Eye protection : Safety glasses with side-shields

Hand protection : Latex gloves
Gloves must be inspected prior to use.
Replace when worn.

Skin and body protection : Wear suitable protective equipment.
Protective suit
Lab coat

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

Hygiene measures : Wash hands before breaks and at the end of workday.
Separate rooms are required for washing, showering and changing clothes.
Keep working clothes separately.

Aluminum potassium sulfate dodecahydrate
12623-6X1KG

Version 1.1

Revision Date 07/26/2021

Print Date 05/11/2023

Exposure Guidelines

Components	CAS-No.	Value	Control parameters	Update	Basis
Aluminum potassium sulfate, 12-hydrate	7784-24-9	TWA : Time weighted average	1 mg/m3	2009	ACGIH:US. ACGIH Threshold Limit Values, as amended
Further information	:	Form of exposure : Respirable fraction.			

Aluminum potassium sulfate, 12-hydrate	7784-24-9	REL : Recomm ended exposure limit (REL):	2 mg/m3	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Further information	:	Expressed as : as Al			

Aluminum potassium sulfate, 12-hydrate	7784-24-9	TWA : Time weighted average	2 mg/m3	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Further information	:	Expressed as : as Al			

Aluminum potassium sulfate, 12-hydrate	7784-24-9	TWA : Time weighted average	1 mg/m3	2009	ACGIH:US. ACGIH Threshold Limit Values, as amended
Further information	:	Form of exposure : Respirable fraction.			

Aluminum potassium sulfate, 12-hydrate	7784-24-9	REL : Recomm ended exposure limit (REL):	2 mg/m3	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Further information	:	Expressed as : as Al			

Aluminum potassium sulfate dodecahydrate**12623-6X1KG**

Version 1.1

Revision Date 07/26/2021

Print Date 05/11/2023

Aluminum potassium sulfate, 12-hydrate	7784-24-9	TWA : Time weighted average	2 mg/m3	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Further information	:	Expressed as : as Al			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: crystalline
Color	: colourless
Odor	: odourless
Odor threshold	: Note: No data available
pH	: 3.0 - 3.5 at , 20 °C
Melting point (decomposition)	: 92.5 °C
Boiling point/boiling range	: Note: Not applicable, Decomposes on heating.
Flash point	: Note: Not applicable
Evaporation rate	: Note: No data available
Flammability	: The product is not flammable.
Lower explosion limit	: Note: Not applicable
Upper explosion limit	: Note: Not applicable
Vapor pressure	: Note: No data available

Aluminum potassium sulfate dodecahydrate**12623-6X1KG**

Version 1.1

Revision Date 07/26/2021

Print Date 05/11/2023

Vapor density	: Note: No data available
Density	: ca. 1.75 g/cm ³ at 20 °C
Water solubility	: 105 g/l at 20 °C
Partition coefficient: n-octanol/water	: Note: No data available
Ignition temperature	: Note: Not applicable
Auto-ignition temperature	: Note: not auto-flammable
Decomposition temperature	: Note: Loss of water of crystallization on heating.
Viscosity, dynamic	: Note: Not applicable
Viscosity, kinematic	: Note: Not applicable
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Molecular weight	: 474.39 g/mol
Bulk density	: ca. 850 kg/m ³

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Not classified as a reactivity hazard.
Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous	: None reasonably foreseeable.

Aluminum potassium sulfate dodecahydrate**12623-6X1KG**

Version 1.1

Revision Date 07/26/2021

Print Date 05/11/2023

reactions

Conditions to avoid

: Protect from frost, heat and sunlight.
Protect from contamination.

Incompatible materials

: Reactions with strong alkalies.

Hazardous decomposition
products: Fire may cause evolution of:
Sulphur oxides**SECTION 11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity

: LD50: > 2,000 mg/kg
Species: Mouse

Acute inhalation toxicity

: Note: Not classified due to data which are conclusive although
insufficient for classification.

Acute dermal toxicity

: Note: Not classified due to data which are conclusive although
insufficient for classification.

Skin irritation

: Note: Not classified due to data which are conclusive although
insufficient for classification.

Sensitisation

: Note: No data available

Aspiration toxicity

: Not applicable

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Aluminum potassium sulfate dodecahydrate**12623-6X1KG**

Version 1.1

Revision Date 07/26/2021

Print Date 05/11/2023

Toxicity to fish : static test
LC50: > 100 mg/l
Exposure time: 48 h
Species: Fish

: flow-through test
LOEC: 4.96 mg/l
Exposure time: 7 d
Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates : static test
NOEC: 206 mg/l
Exposure time: 16 h
Species: Daphnia magna (Water flea)

Toxicity to algae : Note: Not classified due to data which are conclusive although insufficient for classification.

Further information on ecology

Additional ecological information : The methods for determining biodegradability are not applicable to inorganic substances.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods : Observe all Federal, State, and Local Environmental regulations.

SECTION 14. TRANSPORT INFORMATION

DOT Not dangerous goods

TDG Not dangerous goods

IATA Not dangerous goods

IMDG Not dangerous goods

Aluminum potassium sulfate dodecahydrate**12623-6X1KG**

Version 1.1

Revision Date 07/26/2021

Print Date 05/11/2023

SECTION 15. REGULATORY INFORMATION**Inventories**

US. Toxic Substances Control Act : On TSCA Inventory

Australia. Industrial Chemical (Notification and Assessment) Act : On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL) : All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List : Not in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI) : On the inventory, or in compliance with the inventory

Philippines. Inventory of Chemicals and Chemical Substances (PICCS) : On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances (IECSC) : On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand : On the inventory, or in compliance with the inventory

National regulatory information

SARA 302 Components : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis)

Aluminum potassium sulfate dodecahydrate**12623-6X1KG**

Version 1.1

Revision Date 07/26/2021

Print Date 05/11/2023

reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards : Acute Health Hazard**California Prop. 65** : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.**Pennsylvania RTK** : Aluminum potassium sulfate, 7784-24-9
12-hydrate**SECTION 16. OTHER INFORMATION**

	HMIS III	NFPA
Health hazard	: 1	1
Flammability	: 0	0
Physical Hazard	: 0	
Instability	:	0

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Previous Issue Date: 09/24/2016

Aluminum potassium sulfate dodecahydrate

12623-6X1KG

Version 1.1

Revision Date 07/26/2021

Print Date 05/11/2023

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group