ISO9001:2000 Certified

Material Safety Data Sheet

Alum Solution, 10%

Section 1 - Chemical Product and Company Identification

MSDS Name:

Alum Solution, 10%

Catalog Numbers:

LC10740

Synonyms:

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
7732-18-5	Water	balance
7784-24-9	Aluminum potassium sulfate	10

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: Colorless
Expected to be non-hazardous.
Target Organs: None known.

Potential Health Effects

Eye:

May cause eye irritation.

Skin:

May cause mild skin irritation.

Ingestion:

May cause nausea, vomiting, and diarrhea.

Inhalation:

May cause respiratory tract irritation.

Chronic:

May cause dermatitis and conjunctivitis.

Section 4 - First Aid Measures

Eyes:

If irritation develops, get medical aid.

Skin:

Get medical aid if irritation develops or persists.

Ingestion:

Do NOT induce vomiting. Get medical aid.

Inhalation:

No specific treatment is necessary since this material is not likely to be hazardous by inhalation.

Notes to Physician:

Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:

Negligible fire and explosion hazard when exposed to heat or flame. Move container if possible, avoid breathing vapors or dust.

Extinguishing Media:

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

Autoignition Temperature:

No information found.

Flash Point:

No information found.

NFPA Rating:

CAS# 7732-18-5: Not published.
CAS# 7784-24-9: Not published.

Explosion Limits:

Lower: Upper:

Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorb spill using an absorbent, non-combustible material such as earth, sand, diatomaceous earth, vermiculite, or other suitable absorbent.

Section 7 - Handling and Storage

Handling:

Wash thoroughly after handling.

Storage:

Store capped at room temperature.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Good general ventilation should be sufficient to control airborne levels.

Exposure Limits

Chemical Name:	ACGIH	NIOSH	OSHA
Water	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Aluminum potassium sulfate	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.

OSHA Vacated PELs

Personal Protective Equipment

Eyes:

Wear safety glasses and chemical goggles if splashing is possible. Provide an eye-wash fountain in the immediate work area. Do not wear contact lenses when working with chemicals. Do not wear contact lenses when working with chemicals.

Skin:

Wear impervious gloves.

Clothing:

Protective coveralls are recommended.

Respirators:

Not required for normal use.

Section 9 - Physical and Chemical Properties

Physical State: Clear liquid
Color: Colorless
Odor: Odorless
pH: 3.3 (0.2M)
Vapor Pressure: No information found.
Vapor Density: No information found.
Evaporation Rate: No information found.
Viscosity: No information found.
Boiling Point: 100°C (212.00°F)
Freezing/Melting Point: 0°C (32.00°F)

Decomposition Temperature: No information found.
Solubility in water: Partially soluble.
Specific Gravity/Density: 1.0
Molecular Formula: No information found.
Molecular Weight No information found.

Section 10 - Stability and Reactivity

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Temperatures above recommended temperatures, water reactive substances such (oleum, sodium).

Incompatibilities with Other Materials

None reported.

Hazardous Decomposition Products

Toxic oxides of sulfur.

Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

RTECS:

CAS# 7732-18-5: ZC0110000.
CAS# 7784-24-9: WS5690000.

LD50/LC50:

CAS# 7732-18-5:
Oral, rat: LD50 = >90 mL/kg.
CAS# 7784-24-9:
No information found.

Carcinogenicity:

CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.
CAS# 7784-24-9: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

Epidemiology:

Teratogenicity:

Reproductive:

Mutagenicity:

Neurotoxicity:

Section 12 - Ecological Information

No information found.

Section 13 - Disposal Considerations

Dispose of in accordance with Federal, State, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name: Not regulated

Hazard Class:
UN Number:
Packing Group:

Section 15 - Regulatory Information

US Federal

TSCA

CAS# 7732-18-5 is listed on the TSCA Inventory.
CAS# 7784-24-9 is not listed on the TSCA Inventory. It is for research and development use only.

SARA Reportable Quantities (RQ)

None of the components are on this list.

CERCLA/SARA Section 313

None of the components are on this list.

OSHA - Highly Hazardous

None of the components are on this list.

US State

State Right to Know

Aluminum potassium sulfate can be found on the following state Right-to-Know lists: California, (listed as ** undefined **), New Jersey, (listed as ** undefined **), Florida, (listed as ** undefined **), Pennsylvania, (listed as ** undefined **), Minnesota, (listed as ** undefined **), Massachusetts, (listed as ** undefined **).

California Regulations

European/International Regulations

Canadian DSL/NDSL

CAS# 7732-18-5 is listed on Canada's DSL List.

Canada Ingredient Disclosure List

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.
CAS# 7784-24-9 is not listed on Canada's Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: November 5, 2000
Revision Date: August 20, 2008

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