Chromium (III) Potassium Sulfate Dodecahydrate

19310

**SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

NEDS Name: Chromium (III) Potassium Sulfate Dodecahydrate
Catalog Numbers: S72295C, S72229Y, S79967, C337 50C, C337-500, C337500. S7686
Synonyms: Chromium (III) Potassium sulfate; dodecahydrate; Chromic Alum (Dodecahydrate); Potassium Alum (Dodecahydrate).
Company Identification: Fisher Scientific
1 Reagen Lane
Fairlawn, NJ 07410
For information, call: 201-796-7100
Emergency Number: 201-796-7100
For CHEMTREC assistance, call: 800-424-9300
For International CHEMTREC assistance, call: 703-527-3887

**SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS**

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name</th>
<th>RELMCS</th>
</tr>
</thead>
<tbody>
<tr>
<td>7788-99-9</td>
<td>(Chromium (III) Potassium Sulfate Dodecahydrate)</td>
<td>100</td>
</tr>
</tbody>
</table>

Hazard Symbols: XI
Risk Phrases: 36/38

**SECTION 3 - HAZARDS IDENTIFICATION**

Appearance: grey crystals

Spread: May cause allergic respiratory reaction. May cause allergic skin reaction. May cause eye and skin irritation. May cause respiratory and digestive tract irritation.

Target Organs: Lungs.

Potential Health Effects

Eye:
Causes eye irritation.

Skin:
Causes skin irritation. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material.

Inhalation:
No hazard expected in normal industrial use.

Ingestion:
Dust is irritating to the respiratory tract. Causes irritation of mucous membranes.

Chronic:
Prolonged or repeated skin contact may cause dermatitis.

**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:
Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash affected area thoroughly before removal.

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

Inhalation:
Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid immediately.

Notes to Physician:
Treat symptomatically and Antidote:
None reported.

**SECTION 5 - FIRE FIGHTING MEASURES**

General Information:
As in any fire, wear a self-contained breathing apparatus in pressure-demand, HEMs/PHMS (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media:
Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

Autoignition Temperature: Not applicable.

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**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 creating dust conditions. Provide ventilation.

**SECTION 7 - HANDLING AND STORAGE**

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

Storage:
Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep containers tightly closed.

**SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION**

Engineering Controls:
Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA Final PELs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chromium (III) Potassium Sulfate Dodecahydrate</td>
<td>0.5 mg/m³ TWA (listed under ** no name **)</td>
<td>0.5 mg/m³ TWA (listed under ** no name **)</td>
<td>1 mg/m³ TWA (listed under ** no name **)</td>
</tr>
</tbody>
</table>

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 EN 166.

Skin:
Wear appropriate protective gloves to prevent skin exposure.

Clothing:
Wear appropriate protective clothing to minimize contact with skin.

Respirators:
Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Physical State:
Crystals
Color:
purple - gray
Odor:
None reported
Vapor Pressure:
Not available
Vapor Density:
Not available
Evaporation Rate:
Not available
Flash Point:
722 deg F
Boiling Point:
Decomposition Temperature:
Not available
Solubility in Water:
Specific Gravity/Density:
1.8
Molecular Formula:
C₇H₁₈O₆S₆
Molecular Weight:
556.9455

**SECTION 10 - STABILITY AND REACTIVITY**

Chemical Stability:
Stable under normal temperatures and pressures.
Conditions to Avoid:
Incompatible materials, excess heat.
Incompatibilities with Other Materials:
Strong oxidizing agents, heat.

Hazardous Decomposition Products:
Oxides of sulfur, chromium fumes.

Hazardous Polymerization: Has not been reported.

*** SECTION 11 - TOXICLOGICAL INFORMATION ***

PTES/CAS:
CAS 7788-99-0: G685S0000
LD50/LEC50:
Not available.

Carcinogenicity:
Chromium (III) Potassium Sulfate Dodecahydrate -
NTP: A2 - Not classifiable as a human carcinogen (listed as **
IARC: Group 3 carcinogen (listed as ** undefined **)).

Epidemiology:
No information available.

Teratogenicity:
No information available.

Reproductive Effects:
No information available.

Neurotoxicity:
No information available.

Mutagenicity:
No information available.

Genotoxicity:
Data not reported.

Experimental tumorigenic data reported.

*** SECTION 12 - ECLOGICAL INFORMATION ***

*** 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 F-Series: None listed.

RCRA U-Series: None listed.

*** SECTION 14 - TRANSPORT INFORMATION ***

US DOT:
No information available.

Canadian TSD:
No information available.

*** SECTION 15 - REGULATORY INFORMATION ***

US FEDERAL:

TSCA:
CAS 7788-99-0 is not on the TSCA Inventory because it is a hydrate. It is considered to be listed if the CAS number for the anhydrous form is on the inventory (40CFR72.3)(ui)(2).

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.

SARA:

CERCLA Hazardous Substances and corresponding NRGs:
None of the chemicals in this material have an RQ.

SARA Section 313 Extremely Hazardous Substances:
None of the chemicals in this product have a TPQ.

SARA Codes:
CAS 7788-99-0: acute, chronic.

Section 311:
This material contains Chromium (III) Potassium Sulfate Dodecahydrate (listed as ** undefined **). 100% (CAS 7788-99-0) which is subject to the reporting requirements of Section 311 of SARA Title III and 40 CFR Part 372.

Clean Air Act:
This material does not contain any hazardous air pollutants.

Clean Water Act:
This material does not contain any Class 2 Deleterious.

Clean Water Act:
None of the chemicals in this product are listed as Hazardous Substances under the CWA.

CAS 7788-99-0 is listed as a Priority Pollutant under the Clean Water Act.

CAS 7788-99-0 is listed as a Toxic Pollutant under the Clean Water Act.

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

STATE:
Chromium (III) Potassium Sulfate can be found on the following state right to know lists: California. (listed as ** no name **). New Jersey. (listed as ** no name **). Florida. (listed as ** no name **). Pennsylvania. (listed as ** no name **). Minnesota. (listed as ** no name **). Massachusetts. (listed as ** no name **). California No Significant Risk Level:

None of the chemicals in this product are listed.

European/International Regulations:
European Labelling in Accordance with EC Directives

Hazard Symbals: XI
Risk Phrases: R36/38 Irritating to eyes and skin.

Safety Phrases: S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S30/31 After contact with skin, wash immediately with.

NWS (Water Danger/Protection):
CAS 7788-99-0: No information available.

United Kingdom Occupational Exposure Limits:
CAS 7788-99-0: OES-United Kingdom, TWA (listed as ** undefined **), 0.5 mg/m3 TWA

United Kingdom Maximum Exposure Limits:
Canada:
None of the chemicals in this product are listed on the DSL/NSDSL list.

This product has a WHMIS classification of C2B.
CAS 7788-99-0 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits:
CAS 7788-99-0 (listed as ** undefined **): ORL-ARAB Republic of Egypt

OEL-AUSTRALIA: TWA 0.03 mg/m3
OEL-BELGIUM: TWA 0.5 mg/m3
OEL-BOSNIA: TWA 0.5 mg/m3
OEL-CHINA: TWA 0.5 mg/m3
OEL-ENGLAND: TWA 0.5 mg/m3
OEL-ICELAND: TWA 0.5 mg/m3
OEL-IRELAND: TWA 0.5 mg/m3
OEL-ITALY: TWA 0.5 mg/m3
OEL-JAPAN: TWA 0.5 mg/m3
OEL-MEXICO: TWA 0.5 mg/m3
OEL-MOROCCO: TWA 0.5 mg/m3
OEL-NIGERIA: TWA 0.5 mg/m3
OEL-NEW ZEALAND: TWA 0.5 mg/m3
OEL-NEW ZEALAND: TWA 0.5 mg/m3
OEL-UNITED KINGDOM: TWA 0.5 mg/m3
OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA, CHINA, ACO7, TAIWAN
OEL IN NEW ZEALAND, SINGAPORE, VIETNAME, CHINA, TAIWAN

*** SECTION 16 - ADDITIONAL INFORMATION ***

MSDS Creation Date: 11/04/1998 Revision #2 Date: 10/2000

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 of any kind with respect to such information. The information is provided for your own investigation to determine the suitability of the information furnished herein for your own particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any indirect, incidental, consequential or exemplary damages, however arising, even if the company has been advised of the possibility of such damages.

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