

SAFETY DATA SHEET

Revision Date 19-Jan-2018 Revision Number 4

1. Identification

Product Name Chromium potassium sulfate dodecahydrate

Cat No.: AC222520000; AC222520025; AC222520050; AC222521000;

AC222525000

CAS-No 7788-99-0 Synonyms Chrome alum

Recommended UseLaboratory chemicals.

Uses advised against Not for food, drug, pesticide or biocidal product use

Details of the supplier of the safety data sheet

Company

Fisher Scientific Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410 Fair Lawn, NJ 07410

Tel: (201) 796-7100

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Based on available data, the classification criteria are not met

Label Elements

None required

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

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| Component | CAS-No | Weight % |
|---|-----------|----------|
| Chromium (III) potassium sulfate, dodecahydrate | 7788-99-0 | >95 |

4. First-aid measures

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get **Eye Contact**

medical attention.

Skin Contact Obtain medical attention. Wash off immediately with plenty of water for at least 15 minutes.

Inhalation Move to fresh air. Obtain medical attention. If not breathing, give artificial respiration.

Ingestion Do not induce vomiting. Obtain medical attention.

Most important symptoms and

effects

No information available.

Notes to Physician

Treat symptomatically

Fire-fighting measures

Water spray, Carbon dioxide (CO₂), Dry chemical, Chemical foam, **Suitable Extinguishing Media**

Unsuitable Extinguishing Media No information available

Flash Point No information available Method -No information available

Autoignition Temperature

Explosion Limits

Upper No data available Lower No data available Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition. Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Combustion Products

Highly toxic fumes Sulfur oxides

Protective Equipment and Precautions for Firefighters

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

NFPA

Health **Flammability** Instability Physical hazards 2 0 0 N/A

Accidental release measures

Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation.

Environmental Precautions See Section 12 for additional ecological information.

Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation. Up

7. Handling and storage

Avoid contact with skin and eyes. Do not breathe dust. Ensure adequate ventilation. Wear Handling

personal protective equipment. Avoid dust formation.

Storage

Keep in a dry, cool and well-ventilated place. Keep container tightly closed.

8. Exposure controls / personal protection

Exposure Guidelines

| Component | ACGIH TLV | OSHA PEL | NIOSH IDLH | Mexico OEL (TWA) |
|--------------------------|----------------------------|--------------------------------------|----------------------------|----------------------------|
| Chromium (III) potassium | TWA: 0.5 mg/m ³ | (Vacated) TWA: 0.5 mg/m ³ | IDLH: 25 mg/m ³ | TWA: 0.5 mg/m ³ |
| sulfate, dodecahydrate | _ | | TWA: 0.5 mg/m ³ | _ |

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations

and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection 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 and body protectionWear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection 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.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State Solid
Appearance Purple
Odor Odorless

Odor Threshold
pHNo information available
3 50 g/l aq.sol (20°C)

Melting Point/Range

89 °C / 192.2 °F

Boiling Point/Range

No information available

No information available

Evaporation Rate Not applicable

Flammability (solid, gas)

No information available

Flammability or explosive limits

UpperNo data availableLowerNo data availableVapor PressureNo information available

Vapor Density Not applicable

Specific Gravity 1.830

Solubility
No information available
Partition coefficient; n-octanol/water
No data available

Autoignition Temperature

Decomposition Temperature No information available

Viscosity Not applicable

Molecular Formula Cr K O8 S2 . 12 H2 O

Molecular Weight 499.39

10. Stability and reactivity

Chromium potassium sulfate dodecahydrate

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products.

Incompatible Materials Strong oxidizing agents, Strong acids, Strong bases

Hazardous Decomposition Products Highly toxic fumes, Sulfur oxides

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

No acute toxicity information is available for this product

Component Information

Toxicologically Synergistic

No information available

Products

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

The table below indicates whether each agency has listed any ingredient as a carcinogen. Carcinogenicity

| Component | CAS-No | IARC | NTP | ACGIH | OSHA | Mexico |
|--------------------|-----------|------------|------------|------------|------------|------------|
| Chromium (III) | 7788-99-0 | Not listed |
| potassium sulfate, | | | | | | |
| dodecahydrate | | | | | | |

No information available **Mutagenic Effects**

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

None known STOT - single exposure STOT - repeated exposure None known

No information available **Aspiration hazard**

Symptoms / effects,both acute and No information available

delayed

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

| Component Freshwater Algae | | Freshwater Fish | Microtox | Water Flea | |
|----------------------------|------------|-----------------|------------------|------------|--|
| Chromium (III) potassium | Not listed | Not listed | = 10.7 mg/L EC50 | Not listed | |

| sulfate, dodecahydrate | Photobacterium |
|------------------------|-----------------------|
| | phosphoreum 5 min as |
| | Cr3+ |
| | = 12.6 mg/L EC50 |
| | Photobacterium |
| | phosphoreum 10 min as |
| | Cr3+ |
| | = 15.3 mg/L EC50 |
| | Photobacterium |
| | phosphoreum 15 min as |
| | Cr3+ |
| | = 15.8 mg/L EC50 |
| | Photobacterium |
| | phosphoreum 20 min as |
| | Cr3+ |
| | = 16.0 mg/L EC50 |
| | Photobacterium |
| | phosphoreum 30 min as |
| | Cr3+ |

Persistence and Degradability Soluble

Soluble in water Persistence is unlikely based on information available.

Bioaccumulation/ Accumulation

No information available.

Mobility

Will likely be mobile in the environment due to its water solubility.

| 13. Disposal | l considerations |
|--------------|------------------|
| | |

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

| 14. Transport information | | | | |
|---------------------------|---------------|--|--|--|
| DOT | Not regulated | | | |
| DOT TDG | Not regulated | | | |
| <u>IATA</u> | Not regulated | | | |
| IMDG/IMO | Not regulated | | | |

15. Regulatory information

International Inventories

| | Component | TSCA | DSL | NDSL | EINECS | ELINCS | NLP | PICCS | ENCS | AICS | IECSC | KECL |
|---|--------------------------|------|-----|------|--------|--------|-----|-------|------|------|-------|------|
| ſ | Chromium (III) potassium | - | - | - | - | - | | Χ | Х | Χ | Х | - |
| - | sulfate, dodecahydrate | | | | | | | | | | | |

Legend:

- X Listed
- E Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- F Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P Indicates a commenced PMN substance
- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule
- T Indicates a substance that is the subject of a Section 4 test rule under TSCA.
- XU Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
- Y1 Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
- Y2 Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313

| Component | CAS-No | Weight % | SARA 313 - Threshold Values % |
|---|-----------|----------|----------------------------------|
| Chromium (III) potassium sulfate, dodecahydrate | 7788-99-0 | >95 | 1.0 |

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act)

| Component | CWA - Hazardous Substances | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants |
|---|-------------------------------|--------------------------------|------------------------|---------------------------|
| Chromium (III) potassium sulfate, dodecahydrate | - | - | Х | - |

Clean Air Act

| Component | HAPS Data | Class 1 Ozone Depletors | Class 2 Ozone Depletors |
|-----------------------------------|-----------|-------------------------|-------------------------|
| Chromium (III) potassium sulfate, | X | | - |
| dodecahydrate | | | |

OSHA Occupational Safety and Health Administration

Not applicable

CERCLA Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know

Regulations

| Component | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|--------------------------|---------------|------------|--------------|----------|--------------|
| Chromium (III) potassium | - | X | X | X | X |
| sulfate, dodecahydrate | | | | | |

U.S. Department of Transportation

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

| | 16. O | ther information | | |
|--|-------|------------------|--|--|
|--|-------|------------------|--|--|

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Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

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

End of SDS