

# SAFETY DATA SHEET

Creation Date 13-Feb-2014

Revision Date 24-Dec-2021

Revision Number 6

	1. Identification
Product Name	Chromium potassium sulfate dodecahydrate
Cat No. :	AC222520000; AC222520025; AC222520050; AC222521000; AC222525000
CAS No Synonyms	7788-99-0 Chrome alum
Recommended Use Uses advised against	Laboratory chemicals. Food, drug, pesticide or biocidal product use.
Details of the supplier of the safe	ty data sheet
Company Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100	Acros Organics One Reagent Lane Fair Lawn, NJ 07410
Emergency Telephone Number	For information <b>US</b> call: 001-800-ACROS-01 / <b>Europe</b> call: +32 14 57 52 11 Emergency Number <b>US:</b> 001-201-796-7100 / <b>Europe:</b> +32 14 57 52 99 <b>CHEMTREC</b> Tel. No. <b>US:</b> 001-800-424-9300 / <b>Europe:</b> 001-703-527-3887

## 2. Hazard(s) identification

Classification This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/Irritation	Category 2	
Serious Eye Damage/Eye Irritation	Category 2	

#### Label Elements

Signal Word Warning

Hazard Statements Causes skin irritation Causes serious eye irritation



### **Precautionary Statements**

Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection

Skin IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Hazards not otherwise classified (HNOC)

None identified

Method -

### 3. Composition/Information on Ingredients

Component	CAS No	Weight %
Chromium (III) potassium sulfate, dodecahydrate	7788-99-0	>95
Chromium(III) potassium sulfate	10141-00-1	-

4. First-aid measures				
General Advice	If symptoms persist, call a physician.			
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.			
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.			
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.			
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.			
Most important symptoms and effects	None reasonably foreseeable.			
Notes to Physician	Treat symptomatically			
	5. Fire-fighting measures			
Suitable Extinguishing Media	Water spray, Carbon diavida (COs), Dry chamical, Chamical form			
Suitable Extinguishing Media	Water spray. Carbon dioxide (CO 2). Dry chemical. Chemical foam.			
Unsuitable Extinguishing Media	No information available			
Flash Point	No information available			

No information available

Autoignition Temperature	No information available			
Explosion Limits				
Upper	No data available			
Lower	No data available			
Sensitivity to Mechanical Impa				
Sensitivity to Static Discharge	No information available			
Specific Hazards Arising from the Keep product and empty container an gases and vapors.		f ignition. Thermal decomposition	on can lead to release of irritating	
Hazardous Combustion Products Sulfur oxides.				
Protective Equipment and Precaut	ions for Firefighters			
As in any fire, wear self-contained broprotective gear.		lemand, MSHA/NIOSH (approv	red or equivalent) and full	
NFPA				
Health	Flammability	Instability	Physical hazards	
2	0	0	N/A	
	6. Accidental re	lease measures		
Personal Precautions		uipment as required. Ensure a	dequate ventilation. Avoid dust	
	formation.			
Environmental Precautions	al Precautions Should not be released into the environment.			
Methods for Containment and Clea	n Sween up and shovel into	suitable containers for disposal	Keep in suitable, closed	
Up	containers for disposal.	suitable containers for disposa	i. Reep in suitable, closed	
op	containers for disposal.			
	7. Handling	and storage		
Handling	Ensure adequate ventilation	on. Wear personal protective eq	uipment/face protection. Avoid	
Handling	Ensure adequate ventilation	on. Wear personal protective eq	uipment/face protection. Avoid . Avoid ingestion and inhalation.	
	Ensure adequate ventilation dust formation. Do not get	on. Wear personal protective eq in eyes, on skin, or on clothing	Avoid ingestion and inhalation.	
Handling Storage.	Ensure adequate ventilation dust formation. Do not get Keep in a dry, cool and we	n. Wear personal protective eq in eyes, on skin, or on clothing Il-ventilated place. Keep contai	Avoid ingestion and inhalation. ner tightly closed. Incompatible	
	Ensure adequate ventilation dust formation. Do not get Keep in a dry, cool and we	on. Wear personal protective eq in eyes, on skin, or on clothing	Avoid ingestion and inhalation. ner tightly closed. Incompatible	
Storage.	Ensure adequate ventilation dust formation. Do not get Keep in a dry, cool and we Materials. Strong oxidizing	n. Wear personal protective eq in eyes, on skin, or on clothing Il-ventilated place. Keep contai	Avoid ingestion and inhalation. ner tightly closed. Incompatible bases.	

#### 8. Exposure controls / personal protection

#### Exposure Guidelines

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

#### <u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists OSHA - Occupational Safety and Health Administration NIOSH IDLH: NIOSH - National Institute for Occupational Safety and 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 protection	Wear 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

Solid

Physical State
Appearance
Odor
Odor Threshold
рН
Melting Point/Range
Boiling Point/Range
Flash Point
Evaporation Rate
Flammability (solid,gas)
Flammability or explosive limits
Upper
Lower
Vapor Pressure
Vapor Density
Specific Gravity
Solubility
Partition coefficient; n-octanol/water
Autoignition Temperature
Decomposition Temperature
Viscosity
Molecular Formula
Molecular Weight

Purple Odorless No information available 3 50 g/l aq.sol (20°C) 89 °C / 192.2 °F No information available No information available Not applicable No information available No data available No data available No information available Not applicable No information available 24 g/100 ml water (15°C) No data available No information available No information available Not applicable Cr K 08 S2 . 12 H2 O 499.39

### 10. Stability and reactivity

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 Product	ts Sulfur oxides
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.
	11. Toxicological information

#### Acute Toxicity

Product Information	The toxicological properties have not been fully investigated
Component Information	

Chromium(III) potassium sulfate I D50 = 3530 mg/kg (Rat) Not listed Not listed	Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
	Chromium(III) potassium sulfate	1050 = 3530  ma/ka (Rat)	Not listed	Not listed

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Products	Foxicologically Synergistic No information available   Products Products					
Delayed and immed	iate effects	as well as chronic effe	ects from short a	nd long-term expo	sure	
Irritation		Irritating to eyes a	Irritating to eyes and skin			
Sensitization		No information av	No information available			
Carcinogenicity		The table below in	ndicates whether e	each agency has list	ed any ingredient	as a carcinogen.
Component	CAS No		NTP	ACGIH	OSHA	Mexico
Chromium (III) potassium sulfate, dodecahydrate	7788-99-	-0 Not listed	Not listed	Not listed	Not listed	Not listed
Chromium(III) potassium sulfate	10141-00	0-1 Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information av	No information available			
Reproductive Effect	ts	No information av	No information available.			
Developmental Effe	cts	No information av	No information available.			
Teratogenicity		No information av	No information available.			
STOT - single expos STOT - repeated exp		None known None known				
Aspiration hazard		No information av	No information available			
Symptoms / effects delayed	,both acute	nd No information available				
Endocrine Disrupto	r Informatio	n No information av	No information available			
Other Adverse Effect	cts	The toxicological	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 Degrada	ability Soluble in wa	ter Persistence is unlikely	based on information avai	lable.

<b>Bioaccumulation/ Accumulation</b>	No information available.
Mobility	Will likely be mobile in the environment due to its water solubility.
	13. Disposal 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 TDG IATA	Not regulated
TDG	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
	15. Regulatory information

#### United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Chromium (III) potassium sulfate, dodecahydrate	7788-99-0	-	-	-
Chromium(III) potassium sulfate	10141-00-1	Х	ACTIVE	-

#### Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

#### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Chromium (III) potassium sulfate,	7788-99-0	-	-	-	Х	Х	Х	Х	Х	-
dodecahydrate										
Chromium(III) potassium sulfate	10141-00-1	Х	-	233-401-6	Х	-		Х	Х	KE-06009

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

#### U.S. Federal Regulations

#### **SARA 313**

Component	CAS No	Weight %	SARA 313 - Threshold Values %
Chromium (III) potassium sulfate, dodecahydrate	7788-99-0	>95	1.0
Chromium(III) potassium sulfate	10141-00-1	-	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	-

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Chromium(III) potassium sulfate X -					
	Chromium(III) potassium sulfate	-	-	Х	-

Clean Air Act

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

# **OSHA** - Occupational Safety and Not applicable Health Administration

#### CERCLA

Not applicable

#### JERGLA

This product does not contain any Proposition 65 chemicals.

# California Proposition 65 U.S. State Right-to-Know

### Regulations

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

#### U.S. Department of Transportation

Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	

### Mexico - Grade

sulfate, dodecahydrate Chromium(III) potassium

sulfate

No information available

### Authorisation/Restrictions according to EU REACH

10141-00-1

### Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Chromium (III) potassium sulfate, dodecahydrate	7788-99-0	Not applicable	Not applicable	Not applicable	Not applicable
Chromium(III) potassium sulfate	10141-00-1	Not applicable	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Chromium (III) potassium	7788-99-0	Not applicable	Not applicable	Not applicable	Not applicable

Not applicable

Not applicable

Not applicable

Not applicable

16. Other information	
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	13-Feb-2014 24-Dec-2021 24-Dec-2021 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**