

SAFETY DATA SHEET

Creation Date 08-Jul-2009

Revision Date 24-Dec-2021

Revision Number 5

1. Identification

Product Name

Recommended Use

Uses advised against

Potassium dichromate

7778-50-9

Cat No. :

AC197760000; AC197760010; AC197760050; AC197765000

CAS No Synonyms

Potassium bichromate.; Dipotassium dichromate; Dichromic acid, dipotassium salt Laboratory chemicals. Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

<u>Company</u>

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 **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 considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Oxidizing solids	Category 2
Acute oral toxicity	Category 3
Acute dermal toxicity	Category 4
Acute Inhalation Toxicity - Dusts and Mists	Category 2
Skin Corrosion/Irritation	Category 1 B
Serious Eye Damage/Eye Irritation	Category 1
Respiratory Sensitization	Category 1
Skin Sensitization	Category 1
Germ Cell Mutagenicity	Category 1B
Carcinogenicity	Category 1A
Reproductive Toxicity	Category 1B
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system.	
Specific target organ toxicity - (repeated exposure)	Category 1
Target Organs - Respiratory system, Liver, Kidney, Blood.	
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Label Elements

Signal Word Danger

Hazard Statements

May intensify fire; oxidizer Toxic if swallowed Harmful in contact with skin Fatal if inhaled Causes severe skin burns and eye damage May cause respiratory irritation May cause an allergic skin reaction May cause allergy or asthma symptoms or breathing difficulties if inhaled May cause genetic defects May cause cancer May damage fertility. May damage the unborn child Causes damage to organs through prolonged or repeated exposure



Precautionary Statements Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Do not get in eyes, on skin, or on clothing Do not breathe dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Wear respiratory protection In case of inadequate ventilation wear respiratory protection Contaminated work clothing should not be allowed out of the workplace Wear protective gloves Keep away from heat/sparks/open flames/hot surfaces. - No smoking Keep/Store away from clothing/ other combustible materials Take any precaution to avoid mixing with combustibles Response Immediately call a POISON CENTER or doctor/physician Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Skin Wash contaminated clothing before reuse IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower If skin irritation or rash occurs: Get medical advice/attention Eves IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Ingestion Rinse mouth Do NOT induce vomiting

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

Storage

Store locked up Store in a well-ventilated place. Keep container tightly closed **Disposal** Dispose of contents/container to an approved waste disposal plant <u>Hazards not otherwise classified (HNOC)</u> Very toxic to aquatic life with long lasting effects WARNING. Cancer and Reproductive Harm - https://www.p65warnings.ca.gov/.

3. Composition/Information on Ingredients

Component		CAS No	Weight %		
Potassium dichromate		7778-50-9	>95		
4. First-aid measures					
eneral Advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.					
Eye Contact	ye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.				
Skin Contact	Contact Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.				
Inhalation	ion Remove to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.				
ngestion Do NOT induce vomiting. Call a physician or poison control center immediately.					
Most important symptoms and effects Notes to Physician	difficulties if i of gastric lava esophagus s swelling, trou pain, muscle	nhaled. May cause allergic skin reactic age or emesis is contraindicated. Poss hould be investigated: Symptoms of all ible breathing, tingling of the hands and pain or flushing: Ingestion causes seve e and danger of perforation	ergic reaction may include rash, itching, d feet, dizziness, lightheadedness, chest		
	5 51	re-fighting measures			

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper Lower Oxidizing Properties	No data available No data available Oxidizer

Sensitivity to Mechanical Impact No information available

Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

The product causes burns of eyes, skin and mucous membranes. Oxidizer: Contact with combustible/organic material may cause fire. May ignite combustibles (wood paper, oil, clothing, etc.). Do not allow run-off from fire-fighting to enter drains or water courses.

Hazardous Combustion Products

Chromium oxide.

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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. Thermal decomposition can lead to release of irritating gases and vapors.

<u>NFPA</u>	Health 4	Flammability 0	Instability 1	Physical hazards OX					
	6. Accidental release measures								
	Precautions	adequate ventilation. Keep	people away from and upwind	e personnel to safe areas. Ensure d of spill/leak. Avoid dust formation.					
Environn	nental Precautions	contaminate ground water		Do not allow material to entering drains. Local authorities ined. Should not be released into					
Methods Up	for Containment and	Clean Sweep up and shovel into with inert absorbent materi and shovel into suitable co	al. Keep in suitable, closed cor	l. Avoid dust formation. Soak up ntainers for disposal. Sweep up					
	7. Handling and storage								
Handling		clothing. Use only under a immediate medical assista	quipment/face protection. Do r chemical fume hood. Do not ir nce. Do not breathe (dust, vap clothing and other combustibl	ngest. If swallowed then seek or, mist, gas). Avoid dust					
Storage.		combustible materials. Cor	Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store near combustible materials. Corrosives area. Incompatible Materials. Strong oxidizing agents. Reducing Agent. Acids. Strong bases. Acid anhydrides. Strong reducing agents. Combustible material.						
		_							

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Potassium dichromate	TWA: 0.0002 mg/m ³ STEL: 0.0005 mg/m ³ Skin	(Vacated) Ceiling: 0.1 mg/m ³ Ceiling: 0.1 mg/m ³	IDLH: 15 mg/m ³ TWA: 0.0002 mg/m ³	TWA: 0.05 mg/m ³

<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

Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

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

Physical State	Solid
Appearance	Orange
Odor	Odorless
Odor Threshold	No information available
рН	4 (5 %)
Melting Point/Range	398 °C / 748.4 °F
Boiling Point/Range	500 °C / 932 °F
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	2.676
Solubility	Soluble
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	> 500°C
Viscosity	Not applicable
Molecular Formula	Cr2 K2 O7
Molecular Weight	294.19

10. Stability and reactivity

	bus polymerization does not occur.				
Hazardous Decomposition Products Chronic					
Hazardous Decomposition Products Chromium oxide					
	Strong oxidizing agents, Reducing Agent, Acids, Strong bases, Acid anhydrides, Strong reducing agents, Combustible material				
Conditions to Avoid Incompa	tible products. Excess heat. Combustible material. Avoid dust formation.				
Stability Oxidizer	: Contact with combustible/organic material may cause fire.				
Reactive Hazard Yes					

Acute Toxicity

Product Information

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	
Potassium dichromate	130 mg/kg (Rat)	1150 mg/kg (Rabbit)	0.09 mg/L/4h (Rat)	
Toxicologically Synergistic	No information available			

Products

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

Irritation	Causes burns by all exposure routes

Sensitization May cause sensitization by skin contact

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

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Potassium dichromate	7778-50-9	Group 1	Known	A1	Х	A1
IARC (International A NTP: (National Toxic		arch on Cancer)	Group 1 - (Group 2A Group 2B NTP: (Nati Known - K	rnational Agency for F Carcinogenic to Huma - Probably Carcinogen - Possibly Carcinogen onal Toxicity Program nown Carcinogen y Anticipated - Reasco n	ans nic to Humans nic to Humans n)	
ACGIH: (American C Hygienists)	A2 - Suspe A3 - Anima	A1 - Known Human Carcinogen A2 - Suspected Human Carcinogen A3 - Animal Carcinogen				
Mexico - Occupational Exposure Limits - Carcinogens Mexico - Occupational Exposure Limits - Carcinogens A1 - Confirmed Human Carcinogen A2 - Suspected Human Carcinogen A3 - Confirmed Animal Carcinogen A4 - Not Classifiable as a Human Carcinogen A5 - Not Suspected as a Human Carcinogen				e Limits - Carcinogen gen gen gen n Carcinogen		
Mutagenic Effects		May cause heritabl			J.	
Reproductive Effects		May impair fertility.				
Developmental Effects	5	Component substa	nce is listed on C	alifornia Propositio	n 65 as a developi	mental hazard.
Teratogenicity		May cause harm to	the unborn child			
STOT - single exposur STOT - repeated expos		Respiratory system Respiratory system Liver Kidney Blood				
Aspiration hazard		No information ava	ilable			
Symptoms / effects,bo delayed	oth acute and	nd Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation				
Endocrine Disruptor Ir	nformation	No information ava	ilable			
Other Adverse Effects		The toxicological p	roperties have no	ot been fully investig	gated.	
		10 5.1				

12. Ecological information

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Do not allow material to contaminate ground water system. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea

Potassium dichromate Persistence and Degradabil Bioaccumulation/ Accumula Mobility	ation No information			EC50: 1.4 mg/L 24h
	-		due to its water solubility.	
	13. Di	sposal considera	ations	chemical is classified as a
Waste Disposal Methods	13. Di Chemical wa hazardous w		ations nine whether a discarded erators must also consult	local, regional, and
	13. Di Chemical wa hazardous w national haza	sposal considera ste generators must deterr aste. Chemical waste gen	ations nine whether a discarded erators must also consult o ensure complete and acc	local, regional, and
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Packing Group	II		
Subsidiary Hazard Class	6.1		
Hazard Class	5.1		

15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Potassium dichromate	7778-50-9	Х	ACTIVE	R

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

- X Listed
- '-' Not Listed

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

TSCA 12(b) - Notices of Export

Component	CAS No	TSCA 12(b) - Notices of Export
Potassium dichromate	7778-50-9	Section 6

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
Potassium dichromate	7778-50-9	Х	-	231-906-6	Х	Х	Х	Х	Х	KE-29094

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 %
Potassium dichromate	7778-50-9	>95	0.1

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
Potassium dichromate	Х	10 lb	Х	-

Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Potassium dichromate	Х		-

OSHA - Occupational Safety and Not applicable Health Administration

	Component		Specifically Regulated Chemicals	Highly Hazardous Chemicals
	Potassium dichromate		5 μg/m³ TWA	-
			2.5 µg/m ³ Action Level	
CERCLA		substance	rial, as supplied, contains one or more su under the Comprehensive Environmenta CLA) (40 CFR 302)	

Component	Hazardous Substances RQs	CERCLA EHS RQs

Potassium dichromate 10 lb -

California Proposition 65

This product contains the following Proposition 65 chemicals.

Component	CAS No	California Prop. 65	Prop 65 NSRL	Category
Potassium dichromate	7778-50-9	Carcinogen Developmental Female Reproductive Male Reproductive	0.001 µg/day	Developmental Carcinogen

U.S. State Right-to-Know

Regu	lations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Potassium dichromate	Х	Х	Х	Х	Х

U.S. Department of Transportation

U.S. Department of Homeland	This product does not contain any DHS chemical
DOT Severe Marine Pollutant	Ν
DOT Marine Pollutant	N
Reportable Quantity (RQ):	Y

This product does not contain any DHS chemicals.

Security

Other International Regulations

Mexico - Grade

No information available

Authorisation/Restrictions according to EU REACH

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Potassium dichromate	Carcinogenic Category 1B, Mutagenic Category 1B, Toxic for reproduction Category 1B Article 57 Application date: March 21, 2016 Sunset date: September 21, 2017 Exemption - None	Use restricted. See item 72. (see link for restriction details) Use restricted. See item 28. (see link for restriction details) Use restricted. See item 29. (see link for restriction details) Use restricted. See item 30. (see link for restriction details) Use restricted. See item 75. (see link for restriction details) Use restricted. See item 47. (see link for restriction details)	SVHC Candidate list - 231-906-6 - Carcinogenic, Article 57a; Mutagenic, Article 57b; Toxic for reproduction, Article 57c

After the sunset date the use of this substance requires either an authorization or can only be used for exempted uses, e.g. use in scientific research and development which includes routine analytics or use as intermediate.

https://echa.europa.eu/authorisation-list

https://echa.europa.eu/substances-restricted-under-reach

https://echa.europa.eu/candidate-list-table

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)
Potassium dichromate	7778-50-9	Not applicable	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities	Seveso III Directive (2012/18/EC) - Qualifying Quantities	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)

		for Major Accident Notification	for Safety Report Requirements		
Potassium dichromate	7778-50-9	Not applicable	Not applicable	Not applicable	Annex I - Y21

	16. Other information
Prepared By	Regulatory Affairs
	Thermo Fisher Scientific
	Email: EMSDS.RA@thermofisher.com
Creation Date	08-Jul-2009
Revision Date	24-Dec-2021
Print Date	24-Dec-2021
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