

Part of Thermo Fisher Scientific

Material Safety Data Sheet

Creation Date 05-Feb-2010 Revision Date 25-Sep-2012

Revision Number 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Potassium chromate

Cat No. P220-3; P220-100; P220-500

Synonyms Chromic acid, dipotassium salt (Granular/Certified ACS)

Recommended Use Laboratory chemicals

CompanyEmergency Telephone NumberFisher ScientificCHEMTREC®, Inside the USA: 800-One Reagent Lane424-9300

Fair Lawn, NJ 07410 CHEMTREC®, Outside the USA: 001-

Tel: (201) 796-7100 703-527-3887

2. HAZARDS IDENTIFICATION

DANGER!

Emergency Overview

Oxidizer: Contact with combustible/organic material may cause fire. Cancer hazard. May cause cancer by inhalation. May cause heritable genetic damage. Irritating to eyes, respiratory system and skin. May cause an allergic skin reaction. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Appearance Yellow Physical State Solid odor odorless

Target Organs Liver, Kidney, Respiratory system, Eyes, Skin, Lungs, Blood

Potential Health Effects

Acute Effects

Principle Routes of Exposure

Eyes Irritating to eyes.

Skin Irritating to skin. May be harmful in contact with skin. May produce an allergic reaction.

Inhalation Irritating to respiratory system. May be harmful if inhaled.

Ingestion May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting

and diarrhea.

Chronic Effects May cause cancer. May cause heritable genetic damage. May cause adverse liver effects. May

cause adverse kidney effects.

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions

Preexisting eye disorders. Kidney disorders. Liver disorders. Skin disorders.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Haz/Non-haz

Component	CAS-No	Weight %
Potassium chromate	7789-00-6	>95

4. FIRST AID MEASURES

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

medical attention.

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

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation

if victim ingested or inhaled the substance; induce artificial respiration with a respiratory

No information available.

medical device. Obtain medical attention.

Ingestion Do not induce vomiting. Call a physician or Poison Control Center immediately.

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point No information available.

Method No information available.

Autoignition Temperature

Explosion Limits

UpperNo data availableLowerNo data available

Suitable Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or carbon

dioxide.

Unsuitable Extinguishing Media No information available.

Hazardous Combustion Products No information available.

Sensitivity to mechanical impactNo information available.Sensitivity to static dischargeNo information available.

Specific Hazards Arising from the Chemical

Oxidizer: Contact with combustible/organic material may cause fire. May ignite combustibles (wood paper, oil, clothing, etc.).

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.

NFPA Health 2 Flammability 0 Instability 2 Physical hazards OX

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Use personal protective equipment, Ensure adequate ventilation, Evacuate personnel to safe

areas. Keep people away from and upwind of spill/leak. Avoid dust formation.

Environmental Precautions Should not be released into the environment.

Up

Methods for Containment and Clean Keep combustibles (wood, paper, oil, etc) away from spilled material. Sweep up or vacuum up

spillage and collect in suitable container for disposal. Avoid dust formation.

7. HANDLING AND STORAGE

Use only under a chemical fume hood. Wear personal protective equipment. Avoid dust Handling

formation. Do not breathe dust. Do not ingest. Do not get in eyes, on skin, or on clothing. Keep

away from clothing and other combustible materials.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store near

combustible materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are

close to the workstation location.

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium chromate	TWA: 0.05 mg/m ³	(Vacated) Ceiling: 0.1 mg/m ³	IDLH: 15 mg/m ³
			TWA: 0.001 mg/m ³

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Potassium chromate	TWA: 0.05 mg/m ³	TWA: 0.5 mg/m ³	TWA: 0.05 mg/m ³
	_	TWA: 0.05 mg/m ³	

NIOSH IDLH: Immediately Dangerous to Life or Health

Personal Protective Equipment

Eye/face Protection

Skin and body protection **Respiratory 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.

Wear appropriate protective gloves and clothing to prevent skin exposure.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid **Appearance** Yellow odorless odor

No information available. **Odor Threshold** 8.6-9.8 50 g/l aq.sol. pН

Vapor Pressure No information available. No information available. Vapor Density

9. PHYSICAL AND CHEMICAL PROPERTIES

ViscosityNo information available.Boiling Point/RangeNo information available.Melting Point/Range975°C / 1787°F

Decomposition temperatureNo information available.Flash PointNo information available.Evaporation RateNo information available.Specific GravityNo information available.

SolubilitySoluble in waterlog PowNo data available

Molecular Weight194.2Molecular FormulaCr K2 O4

10. STABILITY AND REACTIVITY

Stability Oxidizer: Contact with combustible/organic material may cause fire.

Conditions to Avoid Incompatible products. Excess heat. Combustible material. Avoid

dust formation.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products Oxides of potassium

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions . None under normal processing..

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component Information

Irritation Irritating to eyes, respiratory system and skin

Toxicologically Synergistic

Products

No information available.

Chronic Toxicity

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

Component	ACGIH	IARC	NTP	OSHA	Mexico
Potassium chromate	A1	Group 1	Not listed	X	A1

IARC: (International Agency for Research on Cancer)
IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans Group 2B - Possibly Carcinogenic to Humans

Sensitization May cause sensitization by skin contact

Mutagenic Effects May cause heritable genetic damage

Reproductive Effects

No information available.

Developmental Effects

No information available.

Teratogenicity

No information available.

Other Adverse Effects See actual entry in RTECS for complete information.

Endocrine Disruptor Information No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Potassium chromate	Not listed	Pimephales promelas:	Not listed	EC50 = 0.015 mg/L/48h
		LC50=40 mg/L/96h		_

Persistence and Degradability

Bioaccumulation/ Accumulation

No information available

No information available

No information available

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

UN-No UN3086

Proper Shipping Name TOXIC SOLIDS, OXIDIZING, N.O.S.

Proper technical name Potassium chromate

Hazard Class 6.1 Subsidiary Hazard Class 5.1 Packing Group

TDG

UN-No UN3086

14. TRANSPORT INFORMATION

Proper Shipping Name TOXIC SOLIDS, OXIDIZING, N.O.S.

Hazard Class 6.1 Subsidiary Hazard Class 5.1 Packing Group II

IATA

UN-No UN3086

Proper Shipping Name Toxic solid, oxidizing, n.o.s

Hazard Class 6.1 Subsidiary Hazard Class 5.1 Packing Group

IMDG/IMO

UN-No UN3086

Proper Shipping Name Toxic solid, oxidizing, n.o.s

Hazard Class 6.1 Subsidiary Hazard Class 5.1 Packing Group

15. REGULATORY INFORMATION

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	CHINA	KECL
Potassium chromate	R	Х	-	232-140-	-		Х	Χ	Χ	Х	Χ
				5							

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)

Component	TSCA 12(b)
Potassium chromate	Section 6

SARA 313

Not applicable

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Potassium chromate	7789-00-6	>95	0.1

SARA 311/312 Hazardous Categorization

Acute Health Hazard

Chronic Health Hazard

Fire Hazard

Sudden Release of Pressure Hazard

No
Reactive Hazard

Yes

No
Reserve Hazard

Yes

Clean Water Act

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Potassium chromate	X	10 lb	X	-

Clean Air Act

Not applicable

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Potassium chromate	X		-

OSHA

Not applicable

Component	Specifically Regulated Chemicals	Highly Hazardous Chemicals
Potassium chromate	5 μg/m³ TWA	-
	2.5 μg/m³ Action Level	

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Potassium chromate	10 lb	-

California Proposition 65

This product contains the following Proposition 65 chemicals:

Component	CAS-No	California Prop. 65	Prop 65 NSRL
Potassium chromate	7789-00-6	Carcinogen	-
		Developmental	
		Female Reproductive	
		Male Reproductive	

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Potassium chromate	X	X	X	X	X

U.S. Department of Transportation

Reportable Quantity (RQ): Y
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

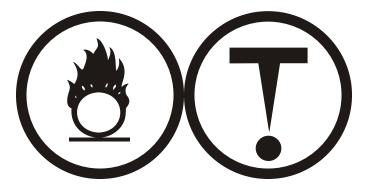
Mexico - Grade No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

C Oxidizing materials D2A Very toxic materials D2B Toxic materials



16. OTHER INFORMATION

Prepared By Regulatory Affairs

Thermo Fisher Scientific

Email: EMSDS.RA@thermofisher.com

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 25-Sep-2012

Revision Summary "***", and red text indicates revision

Disclaimer

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of MSDS