

HazTech Systems, Inc. SAFETY DATA SHEET

Revision number: 2 **Revision date:** 07/09/2015

1. IDENTIFICATION

Product name: Product code: Synonyms: CAS: RTECS # CI#: Recommended use: Uses advised against:

Company:

HazTech Systems, Inc. 4996 Gold Leaf Dr. Mariposa, CA 95338 U.S.A. Telephone: 1-800-543-5487 / 1-209-966-8088 Fax: 1-209-966-8089 e-mail: sales@hazcat.com www.hazcat.com

Potassium chromate RE2334 Not available 7789-00-6 GB2940000 Not available Laboratory chemicals, Manufacture of substances No information available

Chemical Emergencies: HazTech Systems, Inc. (8:00am - 5:00pm) PST 1-800-543-5487 Transportation Emergencies: Chemtrec 24-Hour 1-800-424-9300 (U.S.A.) 1-703-527-3887 (International)

2. HAZARD(S) IDENTIFICATION

Classification of the substance or mixture GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Acute toxicity , Oral (Category 3), H301 Skin irritation (Category 2), H315 Eye irritation (Category 2A), H319 Skin sensitisation (Category 1), H317 Germ cell mutagenicity (Category 1B), H340 Carcinogenicity (Category 1B), H350 Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335 Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), H410 For the full text of the H-Statements mentioned in this Section, see Section 16.

GHS Label elements, including precautionary statements

Pictogram



Signal word	Danger
Hazard statement(s)	
H301	Toxic if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H340	May cause genetic defects.
H350	May cause cancer.
H410	Very toxic to aquatic life with long lasting effects.
Precautionary statement(s)	, 1 0 0
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.

2. HAZARDS IDENTIFICATION	
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well - ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face
	protection.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER or doctor/
	physician. Rinse mouth.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for
	breathing. Call a POISON CENTER or doctor/ physician if you feel
	unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.
P403 + P233	Store in a well - ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.
Hazards not otherwise classified	(HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances		
Formula	:	CrK ₂ O ₄
Molecular weight	:	194.19 g/mol
CAS -No.	:	7789 -00-6
EC-No.	:	232 -140 -5
Index -No.	:	024 -006 -00 -8
D		

Distilled water

Not classified for physical or health hazards under GHS.

Hazardous components

Component	Classification	Concentration	
Potassium chromate Included in the Candidate List of Sub- according to Regulation (EC) No. 1907/2006 (REACH)	stances of Very High Concern (SVH0	C)	
	Acute Tox. 3; Skin Irrit. 2; Eye Irrit. 2A; Skin Sens. 1; Muta. 1B; Carc. 1B; STOT SE 3; Aquatic Acute 1; Aquatic Chronic 1; H301, H315, H317, H319, H335, H340, H350, H410	<=100 %	

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

Description of first aid measures

General advice

Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4. FIRST AID MEASURES

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11 Indication of any immediate medical attention and special treatment needed

No data available

5. FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

Potassium oxides, Chromium oxides

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

No data available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. **Methods and materials for containment and cleaning up**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.

Conditions for safe storage, including any incompatibilities

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

Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components with wo	orkplace control	parameters				
Component	CAS -No.	Value	Control	Basis		
-			parameters			
	Remarks	See Table Z	-2 for the exposure li	m it for any operations or sectors		
		where the exp	where the exposure limit in § 1910.1026 is stayed or is otherwise not			
		in effect	-			
		Substance liste	ed; for more information	tion see OSHA document		
		1910.1026				
Potassium chromate	7789 -00 -6	CEIL	1.000000mg/10	USA. Occupational Exposure Limits		
			m3	(OSHA) - Table Z -2		
		Z37.7 -1971				
	This standard applies to any operations or sectors for which					
		exposure limit	in the Chromium (V	T) standard, Sec. 1910.1026, is		
		stayed or is ot	herwise not in effect.			
		CEIL	1.000000mg/10	USA. Occupational Exposure Limits		
			m3	(OSHA) - Table Z -2		
		Z37.7 -1971				
This standar			ndard applies to any operations or sectors for which the			
		exposure limit	in the Chromium (V	T) standard, Sec. 1910.1026, is		
		stayed or is of	herwise not in effect.			

	- 4			
Z37.7 -19				
		perations or sectors for which the		
	exposure limit in the Chromium (VI) standard, Sec. 1910.1026, is			
stayed or i	s otherwise not in e	fect.		
TWA	0.050000	USA. ACGIH Threshold Limit Values		
	mg/m3	(TLV)		
Lipper Ber	spiratory Tract irrita			
Cancer	spiratory react initia	1011		
	C 1'1 1 '			
		a Biological Exposure Index or Indices		
(see BEI®				
	d human carcinogen			
varies				
PEL	0.005000	OSHA Specifically Regulated		
	mg/m3	Chemicals/Carcinogens		
1910.1026				
This stand	lard applies to occur	ational exposures to chromium (VI) in		
		eneral industry, except: (a) Exposures		
		f pesticides regulated by the		
		ency or another Federal government		
		wood with preservatives); (b)		
		; or (c) Where the employer has		
		hat a material containing chromium or		
		or activity involving chromium cannot		
		of chromium (VI) in concentrations at		
	or above $0.5 \mu\text{gm/m3}$ as an 8 - hour time - weighted average (TWA)			
	expected conditions			
		chromium or Cr(VI)] means chromium		
		n any form and in any compound		
OSHA sp	ecifically regulated c	arcinogen		
TWA	0.000200	USA. NIOSH Recommended		
	mg/m3	Exposure Limits		
Potential (Occupational Carcin			
See Apper		-8		
See Apper				
PEL	0.005000	OSHA Specifically Regulated		
LT				
4040400	mg/m3	Chemicals/Carcinogens		
1910.1026				
		ational exposures to chromium (VI) in		
		eneral industry, except: (a) Exposures		
		f pesticides regulated by the		
		ency or another Federal government		
agency (e.	.g., the treatment of	wood with preservatives); (b)		
Exposures	s to portland cement	; or (c) Where the employer has		
		hat a material containing chromium or		
		or activity involving chromium cannot		
	release dusts, fumes, or mists of chromium (VI) in concentrations at or above 0.5 µgm/m3 as an 8 - hour time - weighted average (TWA) under any expected conditions of use.			
		nromium or Cr(VI)] means chromium		
		n any form and in any compound		
 	ecifically regulated c			
		ure limit for any operations or sectors		
where the	exposure limit in §	910.1026 is stayed or is otherwise not		
in effect	- 5	-		
	listed; for more info	ormation see OSHA document		
1910.1026				
L 1 9 1 U. 1 U Z O				
 CEIL	1mg/10m3	USA. Occupational Exposure Limits		

EXPOSURE CONTROLS/PE	RSONAL PROTECT	ION			
	CEIL	1mg/10m3	USA. Occupational Exposure Limits (OSHA) - Table Z -2		
	Z37.7 -197	1			
		This standard applie s to any operations or sectors for which the			
			(VI) standard, Sec. 1910.1026, is		
		otherwise not in eff			
	TWA	0.05 mg/m3	USA. ACGIH Threshold Limit Values (TLV)		
	Upper Rest	piratory Tract irritatio			
	Cancer		, ii		
		s for which there is a	Biological Exposure Index or Indices		
		Sub stances for which there is a Biological Exposure Index or Indices (see BEI® section)			
		human carcinogen			
	varies	numan caremogen			
	PEL	0.005 mg/m3	OSHA Specifically Regulated		
	1 1512	0.005 mg/m5	Chemicals/Carcinogens		
	1010 1000		Chemicais/Carcinogens		
	1910.1026	1 1 .			
			tional exposures to chr omium (VI) in		
			neral industry, except: (a) Exposures		
			pesticides regulated by the		
			ncy or another Federal government		
		g., the treatment of w			
			or (c) Where the employer has		
			at a material containing chromium or		
			activity involving chromium cannot		
		ts, fumes, or mists of			
		.5 μgm/m3 as an 8	-hour time -weighted average (TWA)		
		expected conditions of			
			omium or Cr(VI)] means chromium		
			any form and in any compound		
		c ifically regulated c			
	TWA	0.0002 mg/m3	USA. NIOSH Recommended		
		_	Exposure Limits		
	Potential C	Occupational Carcino			
	See Append		5		
	See Appen				

Biological occupational exposure limits

Component	CAS -No.	Parameters	Value	Biological specimen	Basis
Potassium chromate	7789 -00 -6	Total	25.0000	Urine	ACGIH - Biological
		chromium	µg/l		Exposure Indices (BEI)
	Remarks	End of shift at	end of workw	veek	
		Total	10.0000	Urine	ACGIH - Biological
		chromium	µg/l		Exposure Indices
					(BEI)
		Increase durin	g shift		
		Total	25.0000	Urine	ACGIH - Biological
		chromium	μg/1		Exposure Indices (BEI)
		End of shift at	end of workw	veek	
		Total	10.0000	Urine	ACGIH - Biological
		chromium	μg/1		Exposure Indices (BEI)
		Increase durin	g shift		

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Total chromium	25 μg/l	Urine	ACGIH - Biological Exposure Indices (BEI)	
End of shift at en	End of shift at end of workweek			
Total chromium	10 μg/l	Urine	ACGIH - Biological Exposure Indices (BEI)	
Increase during s	hift			

Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. **Personal protective equipment**

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material : Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time : 480 min

Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material : Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time : 480 min

Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

a)	Appearance	Form : liquid
		Colour : yellow
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	рН	8.5 - 10.0 at 50 g/l at 20 °C (68 °F)
e)	Melting point/freezing	Melting point/range : 971 °C (1,780 °F) - lit.
	point	
f)	Initial boiling point and	No data available
	boiling range	
g)	Flash point	Not applicable
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available

9 PHYSICAL AND CHEMICAL PROPERTIES i) Upper/lower No data available flammability or explosive limits No data available k) Vapour density No data available ii) Vapour density No data available ii) Water solubility No data available or Partition coefficient: no No data available op Auto-ignition No data available temperature iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii
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N Partition coefficient: n- No data available n Water solubility No data available octanol/water No data available optroversition No data available optroversition No data available etemperature Itemperature etemperature No data available f Viscosity No data available temperature Itemperature f Viscosity No data available f Viscosity No data available Otker safety information Bulk density 1.8 g/l Bulk density 1.8 g/l 10 STABILITY AND REACTIVITY Reactivity No data available Chemical stability Stable under recommended storage conditions. Possibility of hazardous reactions No data available Conditions to avoid Itemperature Reactivity No data available Conditions to avoid Itemperature No data available Itemperature Conditions to avoid Itemperature No data available Itemperature Incompatible materials Compatible materials Organic materials Over decomposition products No data available Itemperature
n) Water solubility No data available operation coefficient: n - No data available octanol/water p) Auto-ignition No data available temperature q) Decomposition No data available temperature r) Viscosity No data available temperature r) Viscosity No data available s) Explosive properties No data available Other safety information Bulk density I.8 g/l 10. STABILITY AND REACTIVITY Reactivity No data available Chemical stability Stable under recommended storage conditions. Possibility of hazardous reactions No data available Conditions to avoid No data available Incompatible materials Organic materials, Powdered metals, Strong oxidizing agents Hzardous decomposition products Other decomposition products - No data available In the event of fire: see section 5 Information on toxicological effects Acute toxicity LDSO Oral - Mouse - 180 mg/kg Infolation IN odata available Stata available No data available No data available Microny Stim Services - 180 mg/kg LDSO Oral - Mouse - 180 mg/kg Stim corrosion/iritation No data available Stim corrosion/iritation No data available Stim corrosion/iritation No data available Mespiratory or skim sensitisation No data available Gem cell mutagenicity May alter genetic material.
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No data available Germ cell mutagenicity May alter genetic material.
Germ cell mutagenicity May alter genetic material.
May alter genetic material.
In vivo tests showed mutagenic effects
Carcinogenicity
This is or contains a component that has been reported to be carcinogenic based on its IARC, OSHA, ACGIH, NTP, or
EPA classification.
Possible human carcinogen
IARC: 1 - Group 1: Carcinogenic to humans (Potassium chromate)
NTP: Known to be human carcinogen (Potassium chromate)
OSHA: OSHA specifically regulated carcinogen (Potassium chromate)
D 1 2
Reproductive toxicity
Reproductive toxicity No data available
Reproductive toxicity

Product Code(s) RE	E2334	
Potassium chromat		evision Date
11. TOXICOLOGICAL I	NFORMATION	
Specific target organ toxi		
No data available		
Aspiration hazard		
No data available		
Additional Information		
RTECS : GB2940000		
Stomach - Irregularities - B		
Stomach - Irregularities - B		
12. ECOLOGICAL INFO	DRMATION	
Toxicity		
Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - 40 mg/l - 96.0 h	
Toxicity to daphnia and	EC50 - Daphnia magna (Water flea) - 15 mg/l - 48 h	
other aquatic		
invertebrates		
Toxicity to algae	EC50 - Nitzschia sp 0.26 mg/l - 72 h	
Persistence and degrada	bility	
No data available		
Bioaccumulative potenti	al	
No data available		
Mobility in soil		
No data available		
Results of PBT and vPvI	B assessment	
PBT/vPvB assessment not	t available as chemical safety assessment not required/not conducted	
Other adverse effects		
An environmental hazard o	cannot be excluded in the event of unprofessional handling or disposal.	
Very toxic to aquatic life w	ith long lasting effects.	
13. DISPOSAL CONSID	ERATIONS	
Waste treatment method	IS CONTRACTOR OF CONTRACTOR	
Product		
	ional waste disposal service to dispose of this material. Dissolve or mix the mater	
	urn in a chemical incinerator equipped with an afterburner and scrubber. Offer st	urplus and
	o a licensed disposal company.	
Contaminated packaging		
Dispose of as unused prod	luct.	
14. TRANSPORT INFO	RMATION	
DOT (US)		
	Class : 6.1 Packing group : III	
Proper shipping name :	Toxic solid, inorganic, n.o.s. (Potassium chromate)	
Reportable Quantity (RQ):		
Poison Inhalation Hazard		
IMDG	. 110	
	Class : 6.1 Packing group : III EMS-No: F-A, S	S- A
	TOXIC SOLID, INORGANIC, N.O.S. (Potassium chromate)	<i>) 1</i> 1
Marine pollutant:yes	rozie oolino, irvokoriivio, iv.o.o. (rotassiaii einoinate)	
IATA		
	Class : 6.1 Packing group : III	
	Toxic solid, inorganic, n.o.s. (Potassium chromate)	
	ORMATION	
SARA 302 Components	ial are subject to the reporting requirements of CADA T'4- THE Continue 200	
	rial are subject to the reporting requirements of SARA Title III, Section 302.	
SARA 313 Components	a are subject to reportion levels establish - 1 CADA T'-1- TIL C+ 212	
The following components	s are subject to reporting levels established by SARA Title III, Section 313: CAS -No. Revisio	n Data
Potassium chromata	CAS -No. Revisio	

	CAS -No.	Revision Date
Potassium chromate	7789 -00 -6	1993 -04 -24
Massachusetts Right To Know Components		
	CAS -No.	Revision Date
Potassium chromate	7789 -00 -6	1993 -04 -24

Potassium chromate

15. REGULATORY INFORMATION		
Pennsylvania Right To Know Components	CAS -No.	Revision Date
Potassium chromate	7789 -00 -6	1993 -04 -24
New Jersey Right To Know Components		
	CAS -No.	Revision Date
Potassium chromate	7789 -00-6	1993 -04 -24
California Prop. 65 Components		
WARNING! This product contains a chemical known to the	CAS -No.	Revision Date
State of California to cause cancer.	7789 -00-6	2014 -06 -06
Potassium chromate		
WARNING: This product contains a chemical known to the	CAS -No.	Revision Date
State of California to cause birth defects or other reproductive	7789 -00 -6	2014 -06 -06
harm.		

Potassium chromate

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
Eye Irrit.	Eye irritation
H301	Toxic if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H340	May cause genetic defects.
H350	May cause cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard :		2	
Chronic Health Hazard	:	*	
Flammability : Physical Hazard		0	
T Hysical Tiazaid		0	
NFPA Rating		2	
Health hazard :		2	
0		2 0 0	

Revision Date: Prepared by: 07/09/2015

HazTech Systems, Inc.

This information is based on HazTech Systems, Inc.'s, current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.