

**Potassium chromate solution****35157-1L**

Version 1.2

Revision Date 08/17/2018

Print Date 10/17/2019

**SECTION 1. IDENTIFICATION**

Product name : Potassium chromate solution

Number : 000000021991

Product Use Description : Laboratory chemicals

Manufacturer or supplier's details : Honeywell International Inc.  
1953 South Harvey Street  
Muskegon, MI 49442

For more information call : 1-800-368-0050  
+1-231-726-3171  
  
(Monday-Friday, 9:00am-5:00pm)

**In case of emergency call : Medical: 1-800-498-5701 or +1-303-389-1414**  
: **Transportation (CHEMTREC): 1-800-424-9300 or**  
: **+1-703-527-3887**  
:  
: (24 hours/day, 7 days/week)

**SECTION 2. HAZARDS IDENTIFICATION****Emergency Overview**

Form : liquid

Color : dark yellow

Odor : no data available

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**Classification of the substance or mixture**

Classification of the substance or mixture : Skin sensitisation, Category 1  
Germ cell mutagenicity, Category 1B  
Carcinogenicity, Category 1B

**GHS Label elements, including precautionary statements**

Symbol(s)



Signal word

: Danger

Hazard statements

: May cause an allergic skin reaction.  
May cause genetic defects.  
May cause cancer.

Precautionary statements

: **Prevention:**  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
Contaminated work clothing should not be allowed out of the workplace.  
Wear protective gloves/protective clothing/eye protection/face protection.**Response:**IF ON SKIN: Wash with plenty of soap and water.  
IF exposed or concerned: Get medical advice/ attention.  
If skin irritation or rash occurs: Get medical advice/ attention.  
Wash contaminated clothing before reuse.**Storage:**

Store locked up.

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#### Disposal:

Dispose of contents/ container to an approved waste disposal plant.

#### Carcinogenicity

NTP:	Potassium chromate Known carcinogen	7789-00-6
IARC:	Potassium chromate Group 1: Carcinogenic to humans	7789-00-6
ACGIH:	Potassium chromate A1: Confirmed human carcinogen	7789-00-6

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture

Chemical name	CAS-No.	Concentration
Potassium chromate	7789-00-6	>=0.00 - <=0.75 %
Water	7732-18-5	>99.00 - <100.00 %

### SECTION 4. FIRST AID MEASURES

General advice : First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately.

Inhalation : In case of accident by inhalation: remove casualty to fresh air and keep at rest. Consult a physician.

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- Skin contact : After contact with skin, wash immediately with plenty of water. If symptoms persist, call a physician.
- Eye contact : Protect unharmed eye. Rinse thoroughly with plenty of water, also under the eyelids. Call a physician immediately.
- Ingestion : Do not induce vomiting without medical advice. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person. Call a physician immediately.

**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Water spray  
Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry powder
- Specific hazards during firefighting : In case of fire hazardous decomposition products may be produced such as:  
Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus and protective suit.  
No unprotected exposed skin areas.
- Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.  
Wear personal protective equipment. Unprotected persons must be kept away.  
Ensure adequate ventilation.

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- Avoid breathing vapours, mist or gas.  
Avoid contact with skin, eyes and clothing.
- Environmental precautions : Prevent further leakage or spillage if safe to do so.  
Do not flush into surface water or sanitary sewer system.
- Methods and materials for containment and cleaning up : Use mechanical handling equipment.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Sweep up and shovel into suitable containers for disposal.

**SECTION 7. HANDLING AND STORAGE****Handling**

- Precautions for safe handling : Wear personal protective equipment.  
Use only in well-ventilated areas.  
Avoid exposure - obtain special instructions before use.  
Avoid breathing vapours, mist or gas.  
Avoid contact with skin, eyes and clothing.

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.

**Storage**

- Conditions for safe storage, including any incompatibilities : Store in original container.  
Keep containers tightly closed in a dry, cool and well-ventilated place.  
Keep locked up or in an area accessible only to qualified or authorised persons.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Protective measures : Ensure that eyewash stations and safety showers are close to the workstation location.  
Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment.

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Avoid exposure - obtain special instructions before use.  
 Avoid breathing vapours, mist or gas.  
 Avoid contact with skin, eyes and clothing.

- Engineering measures : Use with local exhaust ventilation.
- Eye protection : Safety goggles
- Hand protection : Impervious gloves  
 Gloves must be inspected prior to use.  
 Replace when worn.
- Skin and body protection : Wear suitable protective equipment.  
 Lab coat  
 Complete suit protecting against chemicals
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.
- Hygiene measures : Remove and wash contaminated clothing before re-use.  
 Wash hands before breaks and at the end of workday.  
 Usual hygienic precautions must be taken when working with dangerous cancer causing substances.  
 Keep working clothes separately.  
 Separate rooms are required for washing, showering and changing clothes.  
 Recommended preventive skin protection

#### Exposure Guidelines

Components	CAS-No.	Value	Control parameters	Update	Basis
Potassium chromate	7789-00-6	TWA : Time weighted average	0.05 mg/m <sup>3</sup>	2008	ACGIH:US. ACGIH Threshold Limit Values
Further information	:	Expressed as : as Cr			

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Potassium chromate	7789-00-6	REL : Recomm ended exposure limit (REL):	0.001 mg/m3	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
Further information	:	Expressed as : as Cr(VI)			

Potassium chromate	7789-00-6	REF : Referenc e:	29 CFR 1910.1026	03 2012	OSHASP:US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)
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Potassium chromate	7789-00-6	TWA : Time weighted average	0.005 mg/m3	02 2006	OSHASP:US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)
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Potassium chromate	7789-00-6	OSHA_A CT : OSHA Action level:	0.0025 mg/m3	02 2006	OSHASP:US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)
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Potassium chromate	7789-00-6	Ceiling : Ceiling Limit Value:	0.1 mg/m3	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
Further information	:	Expressed as : as CrO3			

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Potassium chromate	7789-00-6	Ceiling : Ceiling Limit Value:	0.1 mg/m3	02 2006	OSHA/Z2:US. OSHA Table Z-2 (29 CFR 1910.1000)
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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state	: liquid
Color	: dark yellow
Odor	: no data available
pH	: Note: no data available
Melting point/range	: Note: no data available
Boiling point/boiling range	: Note: no data available
Flash point	: Note: no data available
Lower explosion limit	: Note: no data available
Upper explosion limit	: Note: no data available
Density	: 1 g/cm3



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Molecular weight : 194.19 g/mol

**SECTION 10. STABILITY AND REACTIVITY**

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : Hazardous polymerisation does not occur.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition products : In case of fire hazardous decomposition products may be produced such as:  
Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke.

**SECTION 11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity : Note: no data available

Acute inhalation toxicity : Note: no data available

Acute dermal toxicity : Note: no data available

Skin irritation : Note: no data available

Eye irritation : Note: no data available

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Sensitisation : Note: no data available

Further information  
Potassium chromate : May cause sensitisation by skin contact.  
May cause cancer by inhalation.  
Irritating to eyes and skin.

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity effects**

Toxicity to fish : Note: no data available

Toxicity to daphnia and other aquatic invertebrates : Note: no data available

Toxicity to algae : Note: no data available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Note: no data available

**Elimination information (persistence and degradability)**

Biodegradability : Note: no data available

**Further information on ecology**

Additional ecological information : We have no quantitative data concerning the ecological effects of this product.

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**SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods : Observe all Federal, State, and Local Environmental regulations.

**SECTION 14. TRANSPORT INFORMATION**

**DOT** UN/ID No. : UN 3082  
 Proper shipping name : Environmentally hazardous substances, liquid, n.o.s. (Potassium chromate)  
 Class : 9  
 Packing group : III  
 Hazard Labels : 9

**IATA** UN/ID No. : UN 3082  
 Description of the goods : Environmentally hazardous substances, liquid, n.o.s. (Potassium chromate)  
 Class : 9  
 Packaging group : III  
 Hazard Labels : 9  
 Packing instruction (cargo aircraft) : 964  
 Packing instruction (passenger aircraft) : 964  
 Packing instruction (passenger aircraft) : Y964

**IMDG** UN/ID No. : UN 3082  
 Description of the goods : Environmentally hazardous substances, liquid, n.o.s. (POTASSIUM CHROMATE)  
 Class : 9  
 Packaging group : III  
 Hazard Labels : 9

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EmS Number : F-A, S-F  
Marine pollutant : yes

Not regulated for transport when single and combination packagings are <5L for liquids or <5kg for solids per ADR 2.2.9.2.10, IMDG 2.10.3 and IATA SP A197).

**SECTION 15. REGULATORY INFORMATION****Inventories**

US. Toxic Substances Control Act : On TSCA Inventory

Australia. Industrial Chemical (Notification and Assessment) Act : On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL) : All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI) : On the inventory, or in compliance with the inventory

Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act : On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances : On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New : On the inventory, or in compliance with the inventory

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Zealand

#### National regulatory information

US. EPA CERCLA Hazardous Substances (40 CFR 302) : The following component(s) of this product is/are subject to release reporting under 40 CFR 302 when release exceeds the Reportable Quantity (RQ):


Reportable quantity: 10 lbs  
: Potassium chromate 7789-00-6

**SARA 302 Components** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components** : The following components are subject to reporting levels established by SARA Title III, Section 313:  
: Potassium chromate 7789-00-6

**SARA 311/312 Hazards** : Acute Health Hazard  
Chronic Health Hazard

**CERCLA Reportable Quantity** : 1538 lbs

**California Prop. 65** :  **WARNING:** This product can expose you to chemicals, listed below, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Potassium chromate 7789-00-6  
Potassium chromate 7789-00-6

**Massachusetts RTK** : Potassium chromate 7789-00-6

**New Jersey RTK** : Potassium chromate 7789-00-6

**Pennsylvania RTK** : Potassium chromate 7789-00-6

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**SECTION 16. OTHER INFORMATION**

	<b>HMIS III</b>	<b>NFPA</b>
Health hazard	: 2*	2
Flammability	: 0	0
Physical Hazard	: 0	
Instability	:	0

\* - Chronic health hazard

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

**Further information**

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. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Previous Issue Date: 05/04/2017

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group