

### Safety Data Sheet acc. to OSHA HCS (HazCom 2012)

Printing date 11/05/2018

Reviewed on 11/05/2018

## 1 Identification

- **Product identifier**
- **Trade name: KS140 - BC1 - CC1 - Potassium Chromate Indicator**
- **Catalogue number:**  
56Z014098, 56L014065, 56U014065, 56L014072, 56L014095, 56U014097, 56L014098, 56L014030, 56U014030, 56L014097, 56U014098, 56U014072, 56L0140, AS-K20140-KW, AS-K20140-ZI, AS-K20140-MA, AS-K20140-VS, AS-K222847-NF, AS-K23543-FW, AS-K25615-KW
- **Application of the substance / the mixture:** Reagent for water analysis
- **Manufacturer/Supplier:**  
Tintometer Inc.  
6456 Parkland Drive  
Sarasota, FL 34243  
USA  
phone: (941) 756-6410  
fax: (941) 727-9654  
www.lovibond.us  
Made in Germany
- **Emergency telephone number:** + 1 866 928 0789 (English, French, Spanish)

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Muta. 1B            H340 May cause genetic defects.  
Carc. 1B            H350 May cause cancer.



GHS09 Environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

Skin Sens. 1            H317 May cause an allergic skin reaction.

- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Hazard Communication Standard (HCS).
- **Hazard pictograms**



GHS07



GHS08



GHS09

- **Signal word** Danger
- **Hazard-determining components of labeling:**  
potassium chromate
- **Hazard statements**  
H317 May cause an allergic skin reaction.  
H340 May cause genetic defects.  
H350 May cause cancer.  
H411 Toxic to aquatic life with long lasting effects.

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**Precautionary statements**

- P261 Avoid breathing mist/vapours/spray.
- P280 Wear protective gloves/protective clothing/eye protection.
- P302+P352 If on skin: Wash with plenty of water.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P405 Store locked up.

• **Other hazards** No further relevant information available.

### \* 3 Composition/information on ingredients

**Chemical characterization: Mixtures**

• **Description:** aqueous solution

**Composition and Information on Ingredients:**

The percent content of the chromium compound mentioned below refers to the amount of the chromate ions dissolved in water. Percent ranges are used due to the confidential product information.

CAS: 7789-00-6	potassium chromate	1-<2.5%
EINECS: 232-140-5	⚠ Muta. 1B, H340; Carc. 1B, H350; ⚠ Aquatic Acute 1, H400 (M=10); Aquatic	
Index number: 024-006-00-8	Chronic 1, H410 (M=10); ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317;	
RTECS: GB 2940000	STOT SE 3, H335	

• **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### 4 First-aid measures

**Description of first aid measures**
**General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Immediately remove any clothing soiled by the product.

**After inhalation:**

In case of unconsciousness remove to fresh air, apply artificial respiration, and consult a physician.

Supply fresh air or oxygen; call for doctor.

• **After skin contact:** If skin irritation or rash occurs: Get medical advice/attention.

**After eye contact:**

Rinse opened eye for several minutes (at least 15 min) under running water.

Call a doctor immediately.

**After swallowing:**

Rinse out mouth and then drink 1-2 glasses of water.

Seek immediate medical advice.

**Most important symptoms and effects, both acute and delayed**

gastric or intestinal disorders

methaemoglobinaemia

allergic reactions

bloody diarrhoea

cramps

**Danger:**

Danger of circulatory collapse.

risk of skin sensitization

**Indication of any immediate medical attention and special treatment needed:**

If swallowed, gastric irrigation with added, activated carbon.

### 5 Fire-fighting measures

**Extinguishing media**

• **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.

**Special hazards arising from the substance or mixture**

The product is not combustible.

Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the following can be released:

chromium oxides

Potassium oxide

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- **Advice for firefighters**
  - **Protective equipment:**  
Wear self-contained respiratory protective device.  
Wear fully protective suit.
  - **Additional information**  
Collect contaminated fire fighting water separately. It must not enter the sewage system.  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.  
Ambient fire may liberate hazardous vapours.
- 

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Use respiratory protective device against the effects of fumes/dust/aerosol.
  - **Advice for non-emergency personnel:**  
Wear protective equipment. Keep unprotected persons away.  
Avoid substance contact.  
Ensure adequate ventilation
  - **Advice for emergency responders:** Protective equipment: see section 8
  - **Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.
  - **Methods and material for containment and cleaning up:**  
Ensure adequate ventilation.  
Do not allow to dry out  
Absorb with liquid-binding material (sand, diatomite, universal binders).  
Dispose contaminated material as waste according to item 13.
  - **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.
- 

### 7 Handling and storage

- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
  - **Advice on safe handling:**  
Open and handle receptacle with care.  
Prevent formation of aerosols.
  - **Hygiene measures:**  
Do not get in eyes, on skin, or on clothing.  
Take off immediately all contaminated clothing.  
Store protective clothing separately.  
Wash hands before breaks and at the end of work.  
Do not eat, drink or smoke when using this product.
  - **Conditions for safe storage, including any incompatibilities**
  - **Storage:**
  - **Requirements to be met by storerooms and receptacles:** Store in a cool location.
  - **Information about storage in one common storage facility:** Not required.
  - **Further information about storage conditions:**  
Store under lock and key and with access restricted to technical experts or their assistants only.  
Protect from heat and direct sunlight.  
Protect from exposure to the light.  
Protect from humidity and water.
  - **Recommended storage temperature:** 20°C +/- 5°C (approx. 68°F)
  - **Specific end use(s)** No further relevant information available.
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### \* 8 Exposure controls/personal protection

- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

**CAS: 7789-00-6 potassium chromate**

PEL (USA)	Long-term value: 0.005* mg/m <sup>3</sup> Ceiling limit value: 0.1** mg/m <sup>3</sup> *as Cr(VI) **as CrO <sub>3</sub> ; see 29 CFR 1910.1026
REL (USA)	Long-term value: 0.0002 mg/m <sup>3</sup> as Cr; See Pocket Guide Apps. A and C
TLV (USA)	Short-term value: 0.0005 mg/m <sup>3</sup> Long-term value: 0.0002 mg/m <sup>3</sup> as Cr; inhalable, Skin; BEI, DSEN, RSEN
EL (Canada)	Long-term value: 0.025 mg/m <sup>3</sup> Ceiling limit value: 0.1 mg/m <sup>3</sup> as Cr; ACGIH A1, IARC 1; Skin; S(D), S(R)

- **Ingredients with biological limit values:**

**CAS: 7789-00-6 potassium chromate**

BEI (USA)	25 µg/L Medium: urine Time: end of shift at end of workweek Parameter: Total chromium (fume)
	10 µg/L Medium: urine Time: increase during shift Parameter: Total chromium (fume)

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Engineering measures:**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See item 7.

- **Personal protective equipment:**

- **Breathing equipment:**

Use respiratory protective device against the effects of fumes/dust/aerosol.  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

- **Protection of hands:**

Protective gloves  
Preventive skin protection by use of skin-protecting agents is recommended.  
After use of gloves apply skin-cleaning agents and skin cosmetics.

- **Material of gloves**

Nitrile rubber, NBR  
Recommended thickness of the material:  $\geq 0.11$  mm

- **Penetration time of glove material**

Value for the permeation: Level  $\leq 1$  (10 min)  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**

Safety glasses  
use against the effects of fumes / dust

- **Body protection:** Protective work clothing

- **Limitation and supervision of exposure into the environment:**

Do not allow product to reach sewage system or any water course.

### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **Appearance:**

**Form / Physical state:** Fluid

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<b>Color:</b>	Yellow
· <b>Odor:</b>	Odorless
· <b>Odor threshold:</b>	Not applicable.
· <b>pH-value at 20°C (68°F):</b>	9.5
· <b>Melting point/freezing point:</b>	Not applicable.
· <b>Initial boiling point and boiling range:</b>	~100°C (~212°F)
· <b>Flash point:</b>	Not applicable.
· <b>Flammability (solid, gas):</b>	Not applicable.
· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto-ignition temperature:</b>	Product is not self-igniting.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Flammability or explosive limits:</b>	
<b>Lower:</b>	Not applicable.
<b>Upper:</b>	Not applicable.
· <b>Oxidizing properties:</b>	none
· <b>Vapor Pressure:</b>	Not determined.
· <b>Density at 20°C (68°F):</b>	1.04 g/cm <sup>3</sup> (8.68 lbs/gal)
· <b>Relative density:</b>	Not determined.
· <b>Vapor density:</b>	Not determined.
· <b>Evaporation rate:</b>	Not determined.
· <b>Solubility(ies)</b>	
<b>Water:</b>	Fully miscible.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	Not determined.
· <b>Dynamic:</b>	Not determined.
· <b>Kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	0.0 %
<b>Water:</b>	> 97 %
<b>Solids content:</b>	< 3 %
· <b>Other information</b>	No further relevant information available.

## 10 Stability and reactivity

- **Reactivity** see section "Possibility of hazardous reactions"
- **Chemical stability** Stable at ambient temperature (room temperature).
- **Possibility of hazardous reactions** Reacts with reducing agents.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** organic substances
- **Hazardous decomposition products:** see section 5

## \*11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.

· **LD/LC50 values that are relevant for classification:**

**CAS: 7789-00-6 potassium chromate**

Oral	LD50.	180 mg/kg (mouse)
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- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Based on available data, the classification criteria are not met.

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- **Sensitization:**

No sensitizing effects known.  
May cause an allergic skin reaction.

- **Information on components:**

CAS 7789-00-6: Sensitizing effect by inhalation and skin contact is possible by prolonged exposure.

- **Carcinogenic categories**

• <b>IARC (International Agency for Research on Cancer)</b>	
CAS: 7789-00-6   potassium chromate	1
• <b>NTP (National Toxicology Program)</b>	
CAS: 7789-00-6   potassium chromate	K
• <b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b>	
None of the ingredients is listed.	

- **Other information:**

see section 8 / 15  
potassium chromate, potassium dichromate:  
ACGIH: A1 - Confirmed Human Carcinogen (listed as \*\*undefined\*\*)  
California: carcinogen ; initial date 2/27/87 (listed as \*\*undefined\*\*)  
NTP: Known carcinogen (listed as \*\*undefined\*\*)  
IARC: Group 1 carcinogen (listed as \*\*undefined\*\*)

- **Synergistic Products:** None

- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction):**

The following statements refer to the mixture:

Muta. 1B, Carc. 1B

- **Germ cell mutagenicity** May cause genetic defects.

- **Carcinogenicity** May cause cancer.

- **Reproductive toxicity** Based on available data, the classification criteria are not met.

- **STOT (specific target organ toxicity) -single exposure** Based on available data, the classification criteria are not met.

- **STOT (specific target organ toxicity) -repeated exposure** Based on available data, the classification criteria are not met.

- **Aspiration hazard** Based on available data, the classification criteria are not met.

- **Additional toxicological information:**

Inhalable chromium (VI) compounds have clearly shown themselves to be carcinogenic in animal experiments.

Poor tendency for ulcers to heal following penetration of substance into the wound.

Lethal dose (man): 0.5 g

Antidotes: chelating agents such as EDTA, DMPS

- **Experience with humans:**

CAS 7789-00-6: Can cause liver damage.

CAS 7789-00-6: Can cause kidney damages.

CAS 7789-00-6: Can cause cardiac damages.

## 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

<b>CAS: 7789-00-6 potassium chromate</b>	
EC50	0.02 mg/l/48h (Daphnia magna) (Ecotox)
	0.18 mg/l/48h (Daphnia pulex)
LC50	39.8 mg/l/96h (fathead minnow) (ECOTOX)

- **Persistence and degradability .**

- **Other information:**

Mixture of inorganic compounds.

Quantitative data on the ecological effect of this mixture are not available.

Does not cause biological oxygen deficit.

Methods for the determination of biodegradability are not applicable to inorganic substances.

- **Bioaccumulative potential** No further relevant information available.

- **Mobility in soil** No further relevant information available.

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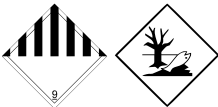
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- **Other adverse effects** Avoid transfer into the environment.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Hand over to hazardous waste disposers.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

### 14 Transport information

<ul style="list-style-type: none"> <li>• <b>UN-Number</b></li> <li>• <b>DOT</b></li> <li>• <b>IMDG, IATA</b></li> </ul>	<p>none UN3082</p>
<ul style="list-style-type: none"> <li>• <b>UN proper shipping name</b></li> <li>• <b>DOT</b></li> <li>• <b>IMDG</b></li> <li>• <b>IATA</b></li> </ul>	<p>none ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (potassium chromate), MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (potassium chromate)</p>
<ul style="list-style-type: none"> <li>• <b>Transport hazard class(es)</b></li> <li>• <b>DOT</b></li> <li>• <b>Class</b></li> </ul>	<p>none</p>
<ul style="list-style-type: none"> <li>• <b>IMDG, IATA</b></li> </ul>	
	
<ul style="list-style-type: none"> <li>• <b>Class</b></li> <li>• <b>Label</b></li> </ul>	<p>9 Miscellaneous dangerous substances and articles 9</p>
<ul style="list-style-type: none"> <li>• <b>Packing group</b></li> <li>• <b>DOT</b></li> <li>• <b>IMDG, IATA</b></li> </ul>	<p>none III</p>
<ul style="list-style-type: none"> <li>• <b>Environmental hazards:</b></li> <li>• <b>Marine pollutant:</b></li> <li>• <b>Special marking (IATA):</b></li> </ul>	<p>Product contains environmentally hazardous substances: potassium chromate Symbol (fish and tree) Symbol (fish and tree)</p>
<ul style="list-style-type: none"> <li>• <b>Special precautions for user</b></li> <li>• <b>Danger code (Kemler):</b></li> <li>• <b>EMS Number:</b></li> <li>• <b>Stowage Category</b></li> </ul>	<p>Warning: Miscellaneous dangerous substances and articles 90 F-A,S-F A</p>
<ul style="list-style-type: none"> <li>• <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b></li> </ul>	<p>Not applicable.</p>
<ul style="list-style-type: none"> <li>• <b>Transport/Additional information:</b></li> </ul>	<p>Not dangerous according to the above specifications.</p>
<ul style="list-style-type: none"> <li>• <b>IMDG</b></li> <li>• <b>Limited quantities (LQ)</b></li> <li>• <b>Excepted quantities (EQ)</b></li> </ul>	<p>5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml</p>



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### \*15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**  
822.115, Jugendarbeitsschutzverordnung - ArGV 5 und 822.115.2, Verordnung des WBF über gefährliche Arbeiten für Jugendliche sind zu beachten.

- **Sara**

- **Section 355 (Extremely hazardous substances):**

None of the ingredients is listed.

- **Section 313 (Specific toxic chemical listings):**

This mixture contains Chromic acid, dipotassium salt [listed as \*\*undefined\*\* - Cr(VI)] which is subject to the reporting requirements of Section 313 SARA Title III and 40 CFR Part 372.

CAS: 7789-00-6 | potassium chromate

- **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

- **Proposition 65**

- **Chemicals known to cause cancer:**

Chromium (hexavalent) compounds are listed in California Proposition 65 as carcinogens.

CAS: 7789-00-6 | potassium chromate

- **Chemicals known to cause reproductive toxicity for females:**

Chromium (hexavalent) compounds are listed in California Proposition 65 as toxic to reproduction for females.

CAS: 7789-00-6 | potassium chromate

- **Chemicals known to cause reproductive toxicity for males:**

Chromium (hexavalent) compounds are listed in California Proposition 65 as toxic to reproduction for males.

CAS: 7789-00-6 | potassium chromate

- **Chemicals known to cause developmental toxicity:**

Chromium (hexavalent) compounds are listed in California Proposition 65 as toxic to development.

CAS: 7789-00-6 | potassium chromate

- **New Jersey Right-to-Know List:**

CAS: 7789-00-6 | potassium chromate

- **New Jersey Special Hazardous Substance List:**

CAS: 7789-00-6 | potassium chromate

CA, MU

- **Pennsylvania Right-to-Know List:**

CAS: 7789-00-6 | potassium chromate

- **Pennsylvania Special Hazardous Substance List:**

CAS: 7789-00-6 | potassium chromate

E

- **EPA (Environmental Protection Agency)**

CAS: 7789-00-6 | potassium chromate

A(inh), D(oral), K/L(inh), CBD(oral)

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

Chromium, hexavalent [Cr(VI)]

CAS: 7789-00-6 | potassium chromate

- **Information about limitation of use:**

Employment restrictions concerning pregnant and lactating women must be observed.

Employment restrictions concerning young persons must be observed.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**

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.

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H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

- **Recommended restriction of use:** professional/industrial use only
- **Date of preparation / last revision** 11/05/2018 / 5

- **Abbreviations and acronyms:**

EC50: effective concentration, 50 percent (in vivo)

OECD: Organisation for Economic Co-operation and Development

STOT: specific target organ toxicity

SE: single exposure

RE: repeated exposure

EC50: half maximal effective concentration

IC50: half maximal inhibitory concentration

NOEL or NOEC: No Observed Effect Level or Concentration

ACGIH<sup>®</sup> - American Conference of Governmental Industrial Hygienists

•A1 - Confirmed human carcinogen

•A2 - Suspected human carcinogen

•A3 - Confirmed animal carcinogen with unknown relevance to humans

•A4 - Not classifiable as a human carcinogen

•A5 - Not suspected as a human carcinogen

IARC - International Agency for Research on Cancer

•Group 1 - Carcinogenic to humans

•Group 2A - Probably carcinogenic to humans

•Group 2B - Possibly carcinogenic to humans

•Group 3 - Not classifiable as to carcinogenicity to humans

•Group 4 - Probably not carcinogenic to humans

NTP - National Toxicology Program, U.S. Department of Health and Human Services

•Group K - Known to be Human Carcinogens

•Group R - Reasonably Anticipated to be Human Carcinogens

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety &amp; Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Skin Sens. 1: Skin sensitisation – Category 1

Muta. 1B: Germ cell mutagenicity – Category 1B

Carc. 1B: Carcinogenicity – Category 1B

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

- **Sources** Data arise from safety data sheets, reference works and literature.

- **\* Data compared to the previous version altered.**