SECTION 1: Identification

1.1. Identification
Product form : Substance
Substance name : Potassium Chromate, ACS
Chemical name : potassium chromate
CAS-No. : 7789-00-6
Product code : LC18830
Formula : K2CrO4

1.2. Recommended use and restrictions on use
Use of the substance/mixture : For laboratory and manufacturing use only.
Recommended use : Laboratory chemicals
Restrictions on use : Not for food, drug or household use

1.3. Supplier
LabChem Inc
Jackson's Pointe Commerce Park Building 1000, 1010 Jackson's Pointe Court
Zelienople, PA 16063 - USA
T 412-826-5230 - F 724-473-0647
info@labchem.com - www.labchem.com

1.4. Emergency telephone number
Emergency number : CHEMTREC: 1-800-424-9300 or 011-703-527-3887

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture
GHS-US classification
Skin corrosion/irritation Category 2
H315 Causes skin irritation
Serious eye damage/eye irritation Category 2A
H319 Causes serious eye irritation
Skin sensitization, Category 1
H317 May cause an allergic skin reaction
Germ cell mutagenicity Category 1B
H340 May cause genetic defects
Carcinogenicity Category 1B
H350 May cause cancer
Specific target organ toxicity (single exposure) Category 3
H335 May cause respiratory irritation
Specific target organ toxicity (repeated exposure) Category 2
H373 May cause damage to organs (blood, liver, kidneys) through prolonged or repeated exposure
Hazardous to the aquatic environment - Acute
H400 Very toxic to aquatic life
Hazardous to the aquatic environment - Chronic
H410 Very toxic to aquatic life with long lasting effects

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements
GHS-US labeling
Hazard pictograms (GHS-US) :

Signal word (GHS-US) : Danger
**Potassium Chromate, ACS**  
Safety Data Sheet  
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### Hazard statements (GHS-US)
- 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  
- H373 - May cause damage to organs (blood, liver, kidneys) through prolonged or repeated exposure  
- H410 - Very toxic to aquatic life with long lasting effects

### Precautionary statements (GHS-US)
- P201 - Obtain special instructions before use.  
- P202 - Do not handle until all safety precautions have been read and understood.  
- P260 - Do not breathe dust.  
- P264 - Wash exposed skin thoroughly after handling.  
- 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.  
- P302+P352 - IF ON SKIN: Wash with plenty of soap and water.  
- P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
- 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.  
- P312 - Call a POISON CENTER or doctor/physician if you feel unwell.  
- P333+P313 - IF SKIN IRRITATION OR RASH OCCURS: Get medical advice/attention.  
- P337+P313 - IF EYE IRRITATION PERSISTS: Get medical advice/attention.  
- P362+P364 - Take off contaminated clothing and wash it before reuse.  
- P391 - Collect spillage.  
- P403+P403 - Store in a well-ventilated place. Keep container tightly closed.  
- P405 - Store locked up.  
- P501 - Dispose of contents/container to comply with local, state and federal regulations

#### 2.3. Other hazards which do not result in classification
Other hazards not contributing to the classification : None under normal conditions.

#### 2.4. Unknown acute toxicity (GHS US)
Not applicable

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances
- **Name**: Potassium Chromate, ACS  
- **Type**: Mono-constituent  

<table>
<thead>
<tr>
<th>Name</th>
<th>Product Identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
</table>
| Potassium Chromate, ACS     | (CAS-No.) 7789-00-6| 100 | Skin Irrit. 2, H315  
| (Main constituent)          |                    |     | Eye Irrit. 2A, H319  
|                             |                    |     | Skin Sens. 1, H317  
|                             |                    |     | Mut. 1B, H340  
|                             |                    |     | Carc. 1B, H350  
|                             |                    |     | STOT SE 3, H335  
|                             |                    |     | STOT RE 2, H373  
|                             |                    |     | Aquatic Acute 1, H400  
|                             |                    |     | Aquatic Chronic 1, H410 |

Full text of hazard classes and H-statements : see section 16

#### 3.2. Mixtures
Not applicable

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures
- **First-aid measures general**: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).  
- **First-aid measures after inhalation**: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.  
- **First-aid measures after skin contact**: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.  
- **First-aid measures after eye contact**: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.  
- **First-aid measures after ingestion**: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and effects (acute and delayed)
Symptoms/effects: May cause genetic defects. May cause cancer. Causes damage to organs (blood, kidneys, liver).
Symptoms/effects after inhalation: May cause an allergic skin reaction. May cause respiratory irritation.
Symptoms/effects after skin contact: Causes skin irritation.
Symptoms/effects after eye contact: Causes serious eye irritation.
Symptoms/effects after ingestion: Nausea. Vomiting.

4.3. Immediate medical attention and special treatment, if necessary
Obtain medical assistance. Treat symptomatically.

SECTION 5: Fire-fighting measures
5.1. Suitable (and unsuitable) extinguishing media
Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical
No additional information available

5.3. Special protective equipment and precautions for fire-fighters
Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures
6.1. Personal precautions, protective equipment and emergency procedures
6.1.1. For non-emergency personnel
Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders
Protective equipment: Equip cleanup crew with proper protection.
Emergency procedures: Ventilate area.

6.2. Environmental precautions
Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up: On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

6.4. Reference to other sections
See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage
7.1. Precautions for safe handling
Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Avoid breathing dust. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Eliminate all ignition sources if safe to do so. Use only outdoors or in a well-ventilated area.
Hygiene measures: Wash exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Keep only in the original container in a cool, well ventilated place away from incompatible materials. Keep container tightly closed.
Incompatible products: Strong oxidizers.
Incompatible materials: Sources of ignition. Direct sunlight.
SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Potassium Chromate, ACS (7789-00-6)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>ACGIH TWA (mg/m³)</td>
</tr>
<tr>
<td>OSHA</td>
<td>OSHA PEL (TWA) (mg/m³)</td>
</tr>
<tr>
<td>IDLH</td>
<td>US IDLH (mg/m³)</td>
</tr>
<tr>
<td>NIOSH</td>
<td>NIOSH REL (TWA) (mg/m³)</td>
</tr>
</tbody>
</table>

8.2. Appropriate engineering controls

Appropriate engineering controls: Ensure adequate ventilation. Material should be handled in a laboratory hood whenever possible. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:


Hand protection:

Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Gas mask

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state</th>
<th>Solid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Yellow-orange</td>
</tr>
<tr>
<td>Odor</td>
<td>None.</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>8.6 - 9.8 5% solution</td>
</tr>
<tr>
<td>Melting point</td>
<td>975 °C</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate (butyl acetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Non flammable.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapor density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
</tbody>
</table>
Potassium Chromate, ACS
Safety Data Sheet

Molecular mass : 194.2 g/mol
Solubility : Soluble in water.
Log Pow : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosion limits : No data available
Explosive properties : No data available
Oxidizing properties : No data available

9.2. Other information
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
No additional information available

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
Not established.

10.4. Conditions to avoid
Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials
Strong oxidizers.

10.6. Hazardous decomposition products
Contains hexavalent chromium.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Likely routes of exposure : Inhalation; Skin and eye contact
Acute toxicity : Not classified
Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye irritation.
Respiratory or skin sensitization : May cause an allergic skin reaction.
Germ cell mutagenicity : May cause genetic defects.
Carcinogenicity : May cause cancer.

Potassium Chromate, ACS (7789-00-6)

In OSHA Specifically Regulated Carcinogen list : Yes
Reproductive toxicity : Not classified
Specific target organ toxicity – single exposure : May cause respiratory irritation.
Specific target organ toxicity – repeated exposure : May cause damage to organs (blood, liver, kidneys) through prolonged or repeated exposure.
Aspiration hazard : Not classified
Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.
Symptoms/effects after inhalation : May cause an allergic skin reaction. May cause respiratory irritation.
Symptoms/effects after skin contact : Causes skin irritation.
Symptoms/effects after eye contact : Causes serious eye irritation.
Potassium Chromate, ACS
Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Symptoms/effects after ingestion: Nausea. Vomiting.

SECTION 12: Ecological information

12.1. Toxicity
Ecology - water: Very toxic to aquatic life with long lasting effects.

Potassium Chromate, ACS (7789-00-6)

LC50 fish 1: 40 mg/l 96 h, Pimephales promelas
EC50 Daphnia 1: 0.015 mg/l 48 h

12.2. Persistence and degradability

Potassium Chromate, ACS (7789-00-6)
Persistence and degradability: Not established.

12.3. Bioaccumulative potential

Potassium Chromate, ACS (7789-00-6)
Bioaccumulative potential: Not established.

12.4. Mobility in soil
No additional information available

12.5. Other adverse effects

Other information: Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods
Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations.

Ecology - waste materials: Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)
In accordance with DOT

Transport document description: UN3087 Oxidizing solid, toxic, n.o.s. (Potassium chromate), 5.1, III

UN-No.(DOT): UN3087
Proper Shipping Name (DOT): Oxidizing solid, toxic, n.o.s.
Transport hazard class(es) (DOT): 5.1 - Class 5.1 - Oxidizer 49 CFR 173.128
Packing group (DOT): III - Minor Danger
Hazard labels (DOT): 5.1 - Oxidizer
6.1 - Poison inhalation hazard

Dangerous for the environment: Yes
Marine pollutant: Yes

DOT Packaging Non Bulk (49 CFR 173.xxx): 213
DOT Packaging Bulk (49 CFR 173.xxx): 240
DOT Symbols: G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102): 62 - Oxygen generators (see §171.8 of this subchapter) are not authorized for transportation under this entry.

IBB - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2).

IP3 - Flexible IBCs must be silt-proof and water-resistant or must be fitted with a silt-proof and water-resistant liner.

T1 - 1.5 178.274(d)(2) Normal............. 178.275(d)(2)

TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.

DOT Packaging Exceptions (49 CFR 173.xxx): 152

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27): 25 kg

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75): 100 kg

DOT Vessel Stowage Location: B - (i) The material may be stowed “on deck” or “under deck” on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) “On deck only” on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.

DOT Vessel Stowage Other: 56 - Stow “separated from” ammonium compounds, 58 - Stow “separated from” cyanides, 95 - Stow “separated from” foodstuffs, 106 - Stow “separated from” powdered metal

Other information: No supplementary information available.

SECTION 15: Regulatory information

15.1. US Federal regulations

Potassium Chromate, ACS (7789-00-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Subject to reporting requirements of United States SARA Section 313

EPA TSCA Regulatory Flag: R - R - indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

RQ (Reportable quantity, section 304 of EPA’s List of Lists): 10 lb

SARA Section 311/312 Hazard Classes: Immediate (acute) health hazard Delayed (chronic) health hazard Reactive hazard

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Potassium Chromate, ACS CAS-No. 7789-00-6 100%

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

No additional information available
15.3. US State regulations

<table>
<thead>
<tr>
<th>Potassium Chromate, ACS (7789-00-6)</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. - California - Proposition 65 - Carcinogens List</td>
</tr>
<tr>
<td>U.S. - California - Proposition 65 - Developmental Toxicity</td>
</tr>
<tr>
<td>U.S. - California - Proposition 65 - Reproductive Toxicity - Female</td>
</tr>
<tr>
<td>U.S. - California - Proposition 65 - Reproductive Toxicity - Male</td>
</tr>
</tbody>
</table>

This product can expose you to Potassium Chromate, ACS, which is 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.

SECTION 16: Other information

Revision date : 01/31/2018
Other information : None.

Full text of H-phrases: see section 16:

<table>
<thead>
<tr>
<th>H315</th>
<th>Causes skin irritation</th>
</tr>
</thead>
<tbody>
<tr>
<td>H317</td>
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<td>Very toxic to aquatic life</td>
</tr>
<tr>
<td>H410</td>
<td>Very toxic to aquatic life with long lasting effects</td>
</tr>
</tbody>
</table>

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.

NFPA specific hazard : OX - Materials that posses oxidizing properties.

Hazard Rating
Health : 2 Moderate Hazard - Temporary or minor injury may occur
* - Chronic (long-term) health effects may result from repeated overexposure

Flammability : 0 Minimal Hazard - Materials that will not burn

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal protection : F
F - Safety glasses, Gloves, Synthetic apron, Dust respirator

SDS US LabChem

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