

## SAFETY DATA SHEET

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

Product name Potassium Chromate Indicator for Silver Nitrate

CAS number See Section 3.

Synonyms N/A

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Laboratory Chemicals

#### 1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC  
12501 Pauls Valley Road  
Austin, Texas 78737  
U.S.A.

Telephone 512-668-9918

Fax 512-886-4008

#### 1.4 Emergency telephone

|                   |                              |          |
|-------------------|------------------------------|----------|
| Emergency Phone # | US & Canada: 1-800-535-5053  | INFOTRAC |
|                   | International 1-352-323-3500 | INFOTRAC |

### SECTION 2: Hazards identification

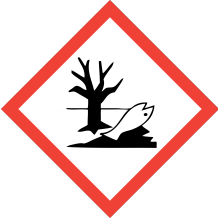
#### 2.1 Classification of the substance or mixture

##### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

|                             |            |
|-----------------------------|------------|
| Acute Toxicity - Oral       | Category 4 |
| Acute Toxicity - Inhalation | Category 3 |
| Eye Damage / Irritation     | Category 1 |
| Respiratory Sensitizer      | Category 1 |
| Skin Sensitizer             | Category 1 |

|                                                                      |            |
|----------------------------------------------------------------------|------------|
| Germ Cell Mutagenicity                                               | Category 1 |
| Carcinogenicity                                                      | Category 1 |
| Reproductive Toxicity                                                | Category 1 |
| Specific Target Organs/Systemic Toxicity Following Repeated Exposure | Category 1 |
| Hazardous to the Aquatic Environment (Acute)                         | Category 2 |
| Hazardous to the Aquatic Environment (Chronic)                       | Category 2 |

## 2.2 GHS Label elements, including precautionary statements

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pictogram                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Signal Word              | Danger                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Hazard statements        | <p>Harmful if swallowed.<br/> May cause an allergic skin reaction.<br/> Causes serious eye damage.<br/> Toxic if inhaled.<br/> May cause allergy or asthma symptoms or breathing difficulties if inhaled.<br/> May cause genetic defects.<br/> May cause cancer.<br/> May damage fertility or the unborn child.<br/> Causes damage to organs through prolonged or repeated exposure.<br/> Toxic to aquatic life.<br/> Toxic to aquatic life with long lasting effects.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Precautionary statements | <p>P201 Obtain special instructions before use.<br/> P202 Do not handle until all safety precautions have been read and understood.<br/> P260 Do not breathe fumes, mist, vapors, or spray.<br/> P261 Avoid breathing fumes, mist, vapors, or spray.<br/> P264 Wash arms, hands and face thoroughly after handling.<br/> P270 Do not eat, drink or smoke when using this product.<br/> P271 Use only outdoors or in a well-ventilated area.<br/> P272 Contaminated work clothing must not be allowed out of the workplace.<br/> P273 Avoid release to the environment.<br/> P280 Wear protective gloves and eye protection.<br/> P285 In case of inadequate ventilation wear respiratory protection.<br/> P301+P312 IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell.<br/> P302+P352 IF ON SKIN: Wash with plenty of soap and water.<br/> P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.<br/> P304+P341 IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.<br/> P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> |

P308+P313 IF exposed or concerned: Get medical attention.  
P310 Immediately call a POISON CENTER or physician.  
P311 Call a POISON CENTER or physician.  
P314 Get medical attention if you feel unwell.  
P321 Specific treatment (Wash areas of contact with water).  
P330 Rinse mouth.  
P332+P313 If skin irritation occurs: Get medical attention.  
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or physician.  
P363 Wash contaminated clothing 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 in accordance with local, state, federal and international regulations.

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Data not available.

## SECTION 3: Composition/information on ingredients

### 3.1 Components

| Chemical name      | Common name and synonyms | CAS number | Concentration |
|--------------------|--------------------------|------------|---------------|
| Water              | No information available | 7732-18-5  | 90.74%        |
| Potassium Chromate | No information available | 7789-00-6  | 9.26%         |
| Silver Nitrate     | No information available | 7761-88-8  | 0.00%         |

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

#### General advice

|                                |                                                                                                                                                                                    |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>If inhaled</b>              | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. May cause irritation, redness, pain, and tearing. |
| <b>In case of skin contact</b> | IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.                                                                              |
| <b>In case of eye contact</b>  | IF ON SKIN: Wash with plenty of soap and water. May cause slight irritation.                                                                                                       |
| <b>If swallowed</b>            | IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Dilute immediately with water or milk. Induce vomiting. Call a physician.                                      |

### 4.2 Most important symptoms and effects, both acute and delayed

Harmful if swallowed. May cause an allergic skin reaction. Causes serious eye damage. Toxic if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause genetic defects. May cause cancer. May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. Contains Hexavalent Chromium compound, which is a known carcinogen. May cause irritation to eyes and skin. Wash areas of contact with plenty of water. If ingested, dilute with water. Induce vomiting, then call a physician. EYE CONTACT: May cause irritation, redness, pain, and tearing. SKIN CONTACT: May cause slight irritation.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Immediately call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water). Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops. Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen. Flush with plenty of water for at least 15 minutes. Call a physician if irritation develops. Dilute immediately with water or milk. Induce vomiting. Call a physician.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

**Suitable extinguishing media** Use any means suitable for extinguishing surrounding fire (Water, water spray, foam, or dry chemical). If using water, do not allow water run off to enter sewer.

**Unsuitable extinguishing media** No information available.

#### 5.2 Specific hazards arising from the substance or mixture

Not considered to be a fire or explosion hazard. Contact with oxidizable substances may cause violent combustion.

#### 5.3 Special protective equipment and precautions for firefighters

Use protective clothing and breathing equipment appropriate for the surrounding fire.

#### 5.4 Further information

**Flash Point** Data not available.

**Autoignition Temperature** Data not available.

##### Explosion limits

**Upper** Data not available.

**Lower** Data not available.

**Sensitivity to Mechanical Impact** Data not available.

**Sensitivity to Static Discharge** Data not available.

##### NFPA

| Health | Flammability | Instability | Physical hazards |
|--------|--------------|-------------|------------------|
| 2      | 0            | 0           | N/A              |

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective gloves and eye protection. In case of inadequate ventilation wear respiratory protection.

### 6.2 Environmental precautions

No information available.

### 6.3 Methods and materials for containment and cleaning up

Do not flush to sewer. Absorb with suitable material. Containerize for disposal with a hazardous waste disposal facility. Dispose of in accordance with local regulations.

### 6.4 Reference to other sections

No information available.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid contact with eyes and skin.

#### Hygiene measures

As with all chemicals, wash hands thoroughly after handling.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Store locked up. Protect from freezing and physical damage.

#### Incompatibilities

See Section 10.

## SECTION 8: Exposure controls/personal protection

### 8.1 Occupational exposure limits

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

| Component                      | Type | Value                                                                                             |
|--------------------------------|------|---------------------------------------------------------------------------------------------------|
| Silver Nitrate (7761-88-8)     | TWA  | 0.01 mg/m <sup>3</sup> TWA (as Ag)                                                                |
| Potassium Chromate (7789-00-6) | TWA  | 5 µg/m <sup>3</sup> TWA                                                                           |
| Potassium Chromate (7789-00-6) | PEL  | 5 µg/m <sup>3</sup> TWA (See 29 CFR 1910.1026, as Cr); 2.5 µg/m <sup>3</sup> Action Level (as Cr) |

|                                   |             |                                                                                                                                                                                                  |
|-----------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Potassium Chromate<br>(7789-00-6) | PEL-Ceiling | 0.1 mg/m <sup>3</sup> Ceiling (applies to any operations or sectors for which the Hexavalent Chromium standard [29 CFR 1910.1026] is stayed or is otherwise not in effect, as CrO <sub>3</sub> ) |
|-----------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### US. ACGIH Threshold Limit Values

| Component                         | Type    | Value                              |
|-----------------------------------|---------|------------------------------------|
| Silver Nitrate (7761-88-8)        | TLV-TWA | 0.01 mg/m <sup>3</sup> TWA (as Ag) |
| Potassium Chromate<br>(7789-00-6) | TLV-TWA | 0.05 mg/m <sup>3</sup> TWA (as Cr) |

#### US. NIOSH: Pocket Guide to Chemical Hazards

No information available.

#### Biological occupational exposure limits

No information available.

## 8.2 Exposure controls

### Appropriate engineering controls

Use only outdoors or in a well-ventilated area. No specific controls are needed. Normal room ventilation is adequate.

### Personal protective equipment

#### Eye/face protection

Wear protective gloves and eye protection. Safety glasses or goggles.

#### Skin protection

Wear protective gloves and eye protection.

#### Body Protection

Chemical resistant gloves.

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection. Normal room ventilation is adequate.

#### Control of environmental exposure

No information available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                           |                                           |
|-------------------------------------------|-------------------------------------------|
| Physical State                            | Yellow liquid                             |
| Appearance                                | Liquid                                    |
| Odor                                      | Data not available.                       |
| Odor Threshold                            | Data not available.                       |
| pH                                        | Alkaline                                  |
| Melting Point/Range                       | Approximately 0°C                         |
| Boiling Point/Range                       | Approximately 102°C - Approximately 102°C |
| Evaporation Rate                          | Data not available.                       |
| Flammability (solid)                      | Data not available.                       |
| Flammability or explosive limit           | Data not available.                       |
| Upper                                     | Data not available.                       |
| Lower                                     | Data not available.                       |
| Vapor Pressure                            | Data not available.                       |
| Vapor Density                             | Data not available.                       |
| Density                                   | 1.08                                      |
| Solubility                                | Miscible                                  |
| Partition coefficient;<br>n-octanol/water | Data not available.                       |
| Autoignition Temp                         | Data not available.                       |
| Decomposition Temp                        | Data not available.                       |
| Viscosity                                 | Data not available.                       |
| Molecular Formula                         | Data not available.                       |
| Molecular Weight                          | Data not available.                       |
| VOC Content(%)                            | Data not available.                       |
| Oxidizing properties                      | Data not available.                       |

**9.2 Other safety information**      Data not available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under normal conditions of use and storage.

### 10.2 Chemical stability

Stable under normal conditions of use and storage.

### 10.3 Possibility of hazardous reactions

Data not available.

### 10.4 Conditions to avoid

Avoid incompatible materials.

### 10.5 Incompatible materials

Reducing Agents, organic compounds.

## 10.6 Hazardous decomposition products

Will not occur.

# SECTION 11: Toxicological information

## 11.1 Information on toxicological effects

### Product Information, Component Information

#### Acute toxicity

| Component          | LD50 Oral        | LD50 Dermal | LC50 Inhalation |
|--------------------|------------------|-------------|-----------------|
| Potassium Chromate | Mouse: 180 mg/kg | Not listed  | Not listed      |

#### Skin corrosion/irritation

Not applicable.

#### Serious eye damage/eye irritation

Causes serious eye damage. Wear protective gloves and eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

#### Respiratory or skin sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled. Avoid breathing fumes, mist, vapors, or spray. In case of inadequate ventilation wear respiratory protection. IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or physician. Dispose of contents in accordance with local, state, federal and international regulations.

May cause an allergic skin reaction. Avoid breathing fumes, mist, vapors, or spray. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves and eye protection. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical attention. Specific treatment (Wash areas of contact with water). Wash contaminated clothing before reuse. Dispose of contents in accordance with local, state, federal and international regulations.

#### Germ cell mutagenicity

May cause genetic defects. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye protection. IF exposed or concerned: Get medical attention. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

#### Carcinogenicity

May cause cancer. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye protection. IF exposed or concerned: Get medical attention. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

#### Specific target organ toxicity - single exposure

Not applicable.

#### **Specific target organ toxicity - repeated exposure**

Causes damage to organs through prolonged or repeated exposure. Do not breathe fumes, mist, vapors, or spray. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. Get medical attention if you feel unwell. Dispose of contents in accordance with local, state, federal and international regulations.

#### **Reproductive toxicity**

May damage fertility or the unborn child. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye protection. IF exposed or concerned: Get medical attention. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

#### **Chronic effects**

Data not available.

### **11.2 Additional Information**

Harmful if swallowed. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. Dispose of contents in accordance with local, state, federal and international regulations.

Toxic if inhaled. Avoid breathing fumes, mist, vapors, or spray. Use only outdoors or in a well-ventilated area. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water). Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

## **SECTION 12: Ecological information**

### **12.1 Toxicity**

Toxic to aquatic life. Avoid release to the environment. Dispose of contents in accordance with local, state, federal and international regulations. Toxic to aquatic life with long lasting effects. Avoid release to the environment. Collect spillage. Dispose of contents in accordance with local, state, federal and international regulations.

### **12.2 Persistence and degradability**

Data not available.

### **12.3 Bio accumulative potential**

Data not available.

### **12.4 Mobility in soil**

Data not available.

### **12.5 Results of PBT and vPvB assessment**

Data not available.

## 12.6 Endocrine disrupting properties

Data not available.

## 12.7 Other adverse effects

Data not available.

# SECTION 13: Disposal considerations

## 13.1 Waste Disposal Methods

Data not available.

# SECTION 14: Transport information

**DOT (US)** Not regulated

**IMDG** Not regulated

**IATA** Not regulated

# SECTION 15: Regulatory information

## US federal regulations

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Water (CAS # 7732-18-5): Present

Silver Nitrate (CAS # 7761-88-8): Present

Potassium Chromate (CAS # 7789-00-6): Present [R]

### CERCLA Hazardous Substance List (40 CFR 302.4)

No information available.

### SARA 304 Emergency release notification

No information available.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Potassium Chromate (CAS # 7789-00-6): 5 µg/m<sup>3</sup> TWA (See 29 CFR 1910.1026, as Cr);  
2.5 µg/m<sup>3</sup> Action Level (as Cr)

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

### SARA 302 Extremely hazardous substance

Not listed.

### SARA 311/312 Hazardous

Silver Nitrate (CAS # 7761-88-8): 1 lb final RQ; 0.454 kg final RQ  
Potassium Chromate (CAS # 7789-00-6): 10 lb final RQ; 4.54 kg final RQ

**SARA 313 (TRI reporting)**

Silver Nitrate (CAS # 7761-88-8): 1.0 % de minimis concentration (listed under Chemical Category N740)

Silver Nitrate (CAS # 7761-88-8): 1.0 % de minimis concentration (reportable only when in aqueous solution, Chemical Category N511)

Potassium Chromate (CAS # 7789-00-6): 0.1 % de minimis concentration (except for Chromite ore mined in the Transvaal Region of South Africa and the unreacted ore component of the Chromite ore processing residue (COPR), Chemical Category N090)

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

No information available.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

No information available.

**Safe Drinking Water Act**

No information available.

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

No information available.

**US state regulations**

**US. Massachusetts RTK - Substance List**

Silver Nitrate (CAS # 7761-88-8): Present

Potassium Chromate (CAS # 7789-00-6): Present

**US. New Jersey Worker and Community Right-to-Know Act**

Silver Nitrate (CAS # 7761-88-8): corrosive

Silver Nitrate (CAS # 7761-88-8): sn 1672

Silver Nitrate (CAS # 7761-88-8): sn 3008

Silver Nitrate (CAS # 7761-88-8): SN 3008 500 lb TPQ (Category Code N740. Includes any unique chemical substance that contains the named metal as part of that chemical structure)

Silver Nitrate (CAS # 7761-88-8): sn 3722

Silver Nitrate (CAS # 7761-88-8): SN 3722 500 lb TPQ (water dissociable, Category Code N511)

Potassium Chromate (CAS # 7789-00-6): carcinogen

Potassium Chromate (CAS # 7789-00-6): carcinogen; mutagen

Potassium Chromate (CAS # 7789-00-6): sn 1561

Potassium Chromate (CAS # 7789-00-6): sn 2245

Potassium Chromate (CAS # 7789-00-6): SN 2245 500 lb TPQ (Category Code N090)

Potassium Chromate (CAS # 7789-00-6): sn 3575

**US. Pennsylvania Worker and Community Right-to-Know Law**

Water (CAS # 7732-18-5): Present  
Silver Nitrate (CAS # 7761-88-8): Environmental hazard  
Silver Nitrate (CAS # 7761-88-8): Present  
Potassium Chromate (CAS # 7789-00-6): Environmental hazard  
Potassium Chromate (CAS # 7789-00-6): Environmental hazard; Special hazardous substance  
Potassium Chromate (CAS # 7789-00-6): Present

**California Proposition 65**

Not listed.

## **SECTION 16: Other information**

Date of Issue: 10/6/2021

Revision Date: 9/21/2026

## **SECTION 17: 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.