

SAFETY DATA SHEET

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

1.1 Product identifiers

| | |
|--------------|---|
| Product name | Potassium Chromate Indicator Solution, 5% |
| CAS number | See Section 3 |
| Synonyms | N/A |

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

| | |
|-----------------|-----------------------------|
| Identified uses | General Laboratory Reagent. |
|-----------------|-----------------------------|

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)

| | |
|--|------------|
| Respiratory Sensitizer | Category 1 |
| Skin Sensitizer | Category 1 |
| Germ Cell Mutagenicity | Category 2 |
| Carcinogenicity | Category 1 |
| Reproductive Toxicity | Category 1 |
| Hazardous to the Aquatic Environment (Acute) | Category 2 |

2.2 GHS Label elements, including precautionary statements

| | |
|--------------------------|---|
| Pictogram |  |
| Signal Word | Danger |
| Hazard statements | <p>May cause an allergic skin reaction.</p> <p>May cause allergy or asthma symptoms or breathing difficulties if inhaled.</p> <p>Suspected of causing genetic defects.</p> <p>May cause cancer.</p> <p>May damage fertility or the unborn child.</p> <p>Toxic to aquatic life.</p> <p>Toxic to aquatic life with long lasting effects.</p> |
| Precautionary statements | <p>Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing fumes, mist, vapors, or spray. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves and eye protection. In case of inadequate ventilation wear respiratory protection.</p> <p>Response: IF exposed or concerned, get medical attention. Specific treatment (Wash areas of contact with water).</p> <p>IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs, get medical attention. Wash contaminated clothing before reuse.</p> <p>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.</p> <p>Spills: Collect spillage.</p> <p>Storage: Store locked up.</p> <p>Disposal: Dispose of contents in accordance with local, state, federal, and international regulations.</p> |

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 | Aqua; H2O | 7732-18-5 | 95.19% |
| Potassium chromate | - | 7789-00-6 | 4.81% |
| Silver nitrate | - | 7761-88-8 | <0.1% |

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

- If inhaled** If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
- In case of skin contact** Wash with plenty of soap and water. May cause slight irritation.
- In case of eye contact** May cause irritation, redness, pain, and tearing.
- If swallowed** Dilute immediately with water or milk. Induce vomiting. Call a physician.

4.2 Most important symptoms and effects, both acute and delayed

May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Suspected of causing genetic defects. May cause cancer. May damage fertility or the unborn child. 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

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 No information available.

Autoignition Temperature No information available.

Explosion limits

Upper No data available.

Lower No data available.

Sensitivity to Mechanical Impact No information available.

Sensitivity to Static Discharge No information 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

Do not flush to sewer.

6.3 Methods and materials for containment and cleaning up

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

See Section 2 for full list of hazard and precaution statements.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions on safe handling

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Store locked up. Protect from freezing and physical damage.

Incompatibilities

Reducing agents, organic compounds.

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 |
|--------------------|-------------------|------------------------|
| Potassium chromate | (Vacated) Ceiling | 0.1 mg/m ³ |
| | Ceiling | 0.1 mg/m ³ |
| Silver nitrate | (Vacated) TWA | 0.01 mg/m ³ |

US. ACGIH Threshold Limit Values

| Component | Type | Value |
|--------------------|------|-------------------------------|
| Potassium chromate | TWA | 0.0002 mg/m ³ |
| | STEL | 0.0005 mg/m ³ Skin |
| Silver nitrate | TWA | 0.01 mg/m ³ |

US. NIOSH: Pocket Guide to Chemical Hazards

| Component | Type | Value |
|--------------------|---------|--------------------------|
| Potassium chromate | IDLH | 15 mg/m ³ |
| | TWA | 0.0002 mg/m ³ |
| Silver nitrate | IDLH | 10 mg/m ³ |
| | TWA-REL | 0.01 mg/m ³ |

Biological occupational exposure limits

No information available.

8.2 Exposure controls

Appropriate engineering controls

No specific controls are needed. Normal room ventilation is adequate.

Personal protective equipment

Eye/face protection

Safety glasses or goggles.

Skin protection

Chemical resistant gloves.

Body Protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory protection

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

Control of environmental exposure

Do not let product enter drains.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

| | |
|---|---------------------|
| Physical State | Liquid |
| Appearance | Yellow |
| Odor | Data not available |
| Odor Threshold | Data not available |
| pH | Alkaline |
| Melting Point/Range | Approximately 0°C |
| Boiling Point/Range | Approximately 102°C |
| Evaporation Rate | Data not available |
| Flammability (solid) | Data not available |
| Flammability or explosive limit | Data not available |
| Upper | |
| Lower | |
| Vapor Pressure | Data not available |
| Vapor Density | Data not available |
| Density | 1.04 |
| Solubility | Miscible |
| Partition coefficient; n-octanol/water | Data not available |
| Autoignition Temp | Data not available |
| Decomposition Temp | Data not available |
| Viscosity | Data not available |
| Molecular Formula | N/A |
| Molecular Weight | N/A |
| VOC Content(%) | Data not available |
| Oxidizing properties | Data not available |

9.2 Other safety information

No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable under normal conditions of use and storage.

10.3 Possibility of hazardous reactions

No information available.

10.4 Conditions to 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 | 180 mg/kg (Mouse) | - | - |
| Silver nitrate | >2000 mg/kg (Rat) | >2000 mg/kg (Rat) | >750 µg/m ³ (Rat) 4h |

Skin corrosion/irritation

Not applicable.

Serious eye damage/eye irritation

Not applicable.

Respiratory or skin sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

Germ cell mutagenicity

Suspected of causing genetic defects.

Carcinogenicity

| Component | CAS | IARC | NTP | ACGIH | OSHA | Mexico |
|--------------------|-----------|------------|------------|------------|------------|------------|
| Water | 7732-18-5 | Not listed | Not listed | Not listed | Not listed | Not listed |
| Potassium chromate | 7789-00-6 | Group 1 | Known | A1 | X | A1 |
| Silver nitrate | 7761-88-8 | Not listed | Not listed | Not listed | Not listed | Not listed |

Specific target organ toxicity - single exposure

Not applicable.

Specific target organ toxicity - repeated exposure

Not applicable.

Reproductive toxicity

May damage fertility or the unborn child.

Chronic effects

Not applicable.

11.2 Additional Information

No information available.

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

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14: Transport information

DOT (US) Not regulated.

IMDG Not regulated.

IATA Not regulated.

SECTION 15: Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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

Listed, Potassium chromate (CAS #7789-00-6), Section 6.

CERCLA Hazardous Substance List (40 CFR 302.4)

Listed, Potassium chromate (CAS #7789-00-6), RQ: 10 lb.

Listed, Silver nitrate (CAS #7761-88-8), RQ: 1 lb.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Listed, Potassium chromate (CAS #7789-00-6).

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

See Section 2 for more information.

SARA 313 (TRI reporting)

Listed, Potassium chromate (CAS #7789-00-6).

Listed, Silver nitrate (CAS #7761-88-8).

Other federal regulations

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

Listed, Potassium chromate (CAS #7789-00-6).

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

Not regulated.

Clean Water Act (CWA)

Listed, Potassium chromate (CAS #7789-00-6), RQ: 10 lb.

Listed, Silver nitrate (CAS #7761-88-8), RQ: 1 lb.

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

Not listed.

US state regulations

US. Massachusetts RTK - Substance List

Listed, Potassium chromate (CAS #7789-00-6)

Listed, Silver nitrate (CAS #7761-88-8).

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

Listed, Potassium chromate (CAS #7789-00-6)

Listed, Silver nitrate (CAS #7761-88-8).

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

Listed, Potassium chromate (CAS #7789-00-6)

Listed, Silver nitrate (CAS #7761-88-8).

California Proposition 65

Listed, Potassium chromate (CAS #7789-00-6)

SECTION 16: Other information

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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.