WATER-I.D.®
WATER TESTING EQUIPMENT

# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

## Chloride Tablet Count

**Revision date** 01-29-2025 **Revision Number** 1

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

### 1.1. Product identifier

**Product Code(s)** TBSRCD

**Product Name** Chloride Tablet Count

**Unique Formula Identifier (UFI)** 15YD-KXM8-951X-THSD

**Pure substance/mixture** Mixture
Contains Chromic acid (H2CrO4), dipotassium salt, Potassium dichromate

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

**Recommended use** Reagent for water analysis

**Uses advised against** Others

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

**Manufacturer**
Water-i.d. GmbH
Daimlerstr. 20
76344 Eggenstein, Germany
Tel.: +49 (0) 721 78 20 29 0, Fax: +49 (0) 721 78 20 29 11
Website: www.water-id.com
EHS / Compliance: lab@water-id.com

### 1.4. Emergency telephone number

Emergency Telephone +44 1235 239670
English, Albanian, Bosnian, Bulgarian, Croatian, Czech, Danish, Dutch, Finnish, French, German, Greek, Hungarian, Italian, Latvian, Lithuanian, Norwegian, Polish, Portuguese, Romanian, Russian, Serbian, Slovak, Spanish, Swedish, Turkish and Ukrainian.

## SECTION 2: Hazards identification

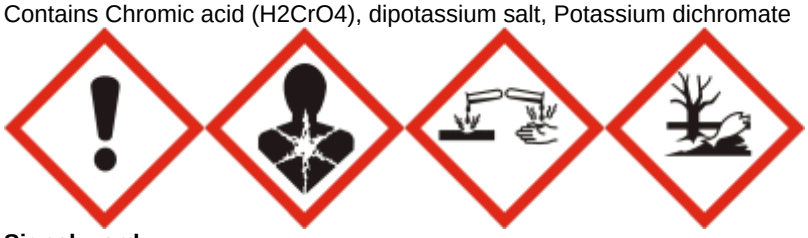
### 2.1. Classification of the substance or mixture

*Regulation (EC) No 1272/2008*

| | |
|---|---|
| **Acute toxicity - Inhalation (Dusts/Mists)** | Category 4 - (H332) |
| **Skin corrosion/irritation** | Category 1 Sub-category B - (H314) |
| **Serious eye damage/eye irritation** | Category 2 - (H319) |
| **Skin sensitisation** | Category 1 - (H317) |
| **Germ cell mutagenicity** | Category 1B - (H340) |
| **Carcinogenicity** | Category 1B - (H350i) |
| **Reproductive toxicity** | Category 1B - (H360FD) |
| **Hazardous to the aquatic environment - chronic** | Category 2 - (H411) |

### 2.2. Label elements

Contains Chromic acid (H2CrO4), dipotassium salt, Potassium dichromate



**Signal word**
Danger

**Hazard statements**
H314 - Causes severe skin burns and eye damage
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H340 - May cause genetic defects
H350i - May cause cancer by inhalation
H360FD - May damage fertility. May damage the unborn child
H411 - Toxic to aquatic life with long lasting effects
EUH208 - Contains Potassium dichromate May produce an allergic reaction.

**Precautionary Statements - EU (§28, 1272/2008)**
P201 - Obtain special instructions before use
P260 - Do not breathe dust, fume, gas, mist, vapors and spray
P273 - Avoid release to the environment
P280 - Wear protective gloves, protective clothing, eye protection and face protection
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a POISON CENTER or doctor
P391 - Collect spillage

**Additional information**
This product requires tactile warnings if supplied to the general public. This product requires child resistant fastenings if supplied to the general public.

### 2.3. Other hazards

Toxic to aquatic life.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

| Chemical name | Weight-% | REACH registration number | EC No (EU Index No) | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) |
|---|---|---|---|---|---|---|---|
| Cellulose<br>9004-34-6 | 30-50 | No data available | 232-674-9 | Not classified | | | |
| Silver nitrate<br>7761-88-8 | 1-10 | No data available | 231-853-9 | Skin Corr. 1B (H314)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410) | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | Ox. Sol. 2 (H272) | | | |
| Chromic acid (H2CrO4), dipotassium salt 7789-00-6 | 1-10 | No data available | 232-140-5 | Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Muta. 1B (H340) Carc. 1B (H350i) STOT SE 3 (H335) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) | | | |
| Potassium dichromate 7778-50-9 | <1 | No data available | 231-906-6 | Acute Tox. 3 (H301) Acute Tox. 4 (H312) Acute Tox. 2 (H330) Skin Corr. 1B (H314) Resp. Sens. 1 (H334) Skin Sens. 1 (H317) Muta. 1B (H340) Carc. 1B (H350) Repr. 1B (H360FD) STOT RE 1 (H372) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Ox. Sol. 2 (H272) | | | |
| Lithium hydroxide monohydrate 1310-66-3 | <1 | No data available | - | Acute Tox. 4 (H302) Skin Corr. 1B (H314) Eye Dam. 1 (H318) | | | |
| Silica, amorphous 7631-86-9 | <1 | No data available | 231-545-4 | Not classified | | | |
| Magnesium stearate 557-04-0 | <1 | No data available | 209-150-3 | No data available | | | |

**Full text of H- and EUH-phrases: see section 16**

*Acute Toxicity Estimate*

*If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components*

| Chemical name | Oral LD50 mg/kg | Dermal LD50 mg/kg | Inhalation LC50 - 4 hour - dust/mist - mg/L | Inhalation LC50 - 4 hour - vapour - mg/L | Inhalation LC50 - 4 hour - gas - ppm |
|---|---|---|---|---|---|
| Cellulose 9004-34-6 | 5000 | 2000 | 5.8 | | |
| Silver nitrate 7761-88-8 | 1173 | 2000 | | | |
| Potassium dichromate 7778-50-9 | 48 | 1150 | | | |
| Lithium hydroxide monohydrate 1310-66-3 | 363 | | >6.15 | | |
| Silica, amorphous 7631-86-9 | 7900 | 5000 | 58.8 | | |

This product contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59)

| Chemical name | CAS No. | SVHC candidates |
|---|---|---|
| Chromic acid (H2CrO4), dipotassium salt | 7789-00-6 | X |
| Potassium dichromate | 7778-50-9 | X |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**General advice** Immediate medical attention is required. Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.

**Inhalation** Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical attention.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.

**Skin contact** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical attention. May cause an allergic skin reaction.

**Ingestion** Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical attention.

**Self-protection of the first aider** Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Avoid breathing dust/fume/gas/mist/vapours/spray. Use personal protective equipment as required. See section 8 for more information.

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

**Symptoms** Burning sensation. Itching. Rashes. Hives. May cause redness and tearing of the eyes. Coughing and/ or wheezing. Difficulty in breathing.

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

**Note to doctors** Product is a corrosive material. Use of gastric lavage or emesis is contra-indicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. May cause sensitisation in susceptible persons. Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Large Fire** CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

### 5.2. Special hazards arising from the substance or mixture

**Specific hazards arising from the chemical** The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapours. Product is or contains a sensitiser. May cause sensitisation by skin contact.

### 5.3. Advice for firefighters

| | |
|---|---|
| **Special protective equipment and precautions for fire-fighters** | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |

## SECTION 6: Accidental release measures

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

| | |
|---|---|
| **Personal precautions** | Attention! Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid generation of dust. Do not breathe dust. |
| **Other information** | Refer to protective measures listed in Sections 7 and 8. |
| **For emergency responders** | Use personal protection recommended in Section 8. |

### 6.2. Environmental precautions

| | |
|---|---|
| **Environmental precautions** | Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains. |

### 6.3. Methods and material for containment and cleaning up

| | |
|---|---|
| **Methods for containment** | Prevent further leakage or spillage if safe to do so. |
| **Methods for cleaning up** | Take up mechanically, placing in appropriate containers for disposal. |
| **Prevention of secondary hazards** | Clean contaminated objects and areas thoroughly observing environmental regulations. |

### 6.4. Reference to other sections

| | |
|---|---|
| **Reference to other sections** | See section 8 for more information. See section 13 for more information. |

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

| | |
|---|---|
| **Advice on safe handling** | Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Remove contaminated clothing and shoes. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid generation of dust. |
| **General hygiene considerations** | Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid breathing dust/fume/gas/mist/vapours/spray. |

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

| | |
|---|---|
| **Storage Conditions** | Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Store locked up. Keep out of the reach of children. Store away from other materials. |

### 7.3. Specific end use(s)

| | |
|---|---|
| **Risk Management Methods (RMM)** | The information required is contained in this Safety Data Sheet. |

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**Exposure Limits**

| Chemical name | European Union | Austria | Belgium | Bulgaria | Croatia |
|---|---|---|---|---|---|
| Cellulose<br>9004-34-6 | - | - | TWA: 10 mg/m³ | - | TWA: 10 mg/m³<br>TWA: 4 mg/m³<br>STEL: 20 mg/m³ |
| Silver nitrate<br>7761-88-8 | TWA: 0.01 mg/m³ | TWA: 0.01 mg/m³ | TWA: 0.01 mg/m³ | TWA: 0.01 mg/m³ | TWA: 0.01 mg/m³ |
| Chromic acid (H2CrO4), dipotassium salt<br>7789-00-6 | TWA: 0.005 mg/m³<br>TWA: 0.010 mg/m³<br>TWA: 0.025 mg/m³ | - | TWA: 0.05 mg/m³<br>TWA: 0.5 mg/m³ | TWA: 0.010 mg/m³<br>TWA: 0.025 mg/m³ | TWA: 0.010 mg/m³<br>TWA: 0.025 mg/m³ |
| Potassium dichromate<br>7778-50-9 | TWA: 0.005 mg/m³<br>TWA: 0.010 mg/m³<br>TWA: 0.025 mg/m³ | - | TWA: 0.05 mg/m³<br>TWA: 0.5 mg/m³ | TWA: 0.010 mg/m³<br>TWA: 0.025 mg/m³ | TWA: 0.010 mg/m³<br>TWA: 0.025 mg/m³ |
| Lithium hydroxide monohydrate<br>1310-66-3 | - | - | - | - | STEL: 1 mg/m³ |
| Silica, amorphous<br>7631-86-9 | TWA: 0.1 mg/m³ | TWA: 4 mg/m³ | - | TWA: 0.1 mg/m³ | - |
| Magnesium stearate<br>557-04-0 | - | - | TWA: 10 mg/m³ | - | - |

| Chemical name | Cyprus | Czech Republic | Denmark | Estonia | Finland |
|---|---|---|---|---|---|
| Cellulose<br>9004-34-6 | - | - | TWA: 1 mg/m³ | TWA: 10 mg/m³ | TWA: 2 mg/m³ |
| Silver nitrate<br>7761-88-8 | TWA: 0.01 mg/m³ | TWA: 0.01 mg/m³<br>Ceiling: 0.03 mg/m³ | TWA: 0.01 mg/m³ | TWA: 0.01 mg/m³ | TWA: 0.01 mg/m³<br>STEL: 0.03 mg/m³ |
| Chromic acid (H2CrO4), dipotassium salt<br>7789-00-6 | - | TWA: 0.01 mg/m³<br>Ceiling: 0.1 mg/m³ | TWA: 0.001 mg/m³ | TWA: 0.01 mg/m³<br>TWA: 0.025 mg/m³<br>TWA: 2 mg/m³ | TWA: 0.005 mg/m³ |
| Potassium dichromate<br>7778-50-9 | - | TWA: 0.01 mg/m³<br>Ceiling: 0.1 mg/m³ | TWA: 0.001 mg/m³ | TWA: 0.01 mg/m³<br>TWA: 0.025 mg/m³<br>TWA: 2 mg/m³ | TWA: 0.005 mg/m³ |
| Silica, amorphous<br>7631-86-9 | - | TWA: 0.1 mg/m³<br>TWA: 4.0 mg/m³ | TWA: 1.5 mg/m³<br>TWA: 0.1 mg/m³ | TWA: 2 mg/m³ | TWA: 5 mg/m³ |

| Chemical name | France | Germany TRGS | Germany DFG | Greece | Hungary |
|---|---|---|---|---|---|
| Cellulose<br>9004-34-6 | TWA: 10 mg/m³ | - | - | TWA: 5 mg/m³ | TWA: 3 mg/m³ |
| Silver nitrate<br>7761-88-8 | TWA: 0.01 mg/m³ | TWA: 0.01 mg/m³ | TWA: 0.01 mg/m³<br>Peak: 0.02 mg/m³ | TWA: 0.01 mg/m³ | TWA: 0.01 mg/m³ |
| Chromic acid (H2CrO4), dipotassium salt<br>7789-00-6 | TWA: 0.001 mg/m³<br>STEL: 0.005 mg/m³ | - | * | TWA: 0.5 mg/m³<br>TWA: 0.005 mg/m³<br>TWA: 0.010 mg/m³<br>TWA: 0.025 mg/m³ | TWA: 0.5 mg/m³<br>TWA: 0.01 mg/m³<br>STEL: 2 mg/m³ |
| Potassium dichromate<br>7778-50-9 | TWA: 0.001 mg/m³<br>STEL: 0.005 mg/m³ | - | * | TWA: 0.5 mg/m³<br>TWA: 0.005 mg/m³<br>TWA: 0.010 mg/m³<br>TWA: 0.025 mg/m³ | TWA: 0.5 mg/m³<br>TWA: 0.01 mg/m³<br>STEL: 2 mg/m³ |
| Silica, amorphous<br>7631-86-9 | - | TWA: 4 mg/m³ | TWA: 0.02 mg/m³<br>Peak: 0.16 mg/m³ | TWA: 0.1 mg/m³ | - |

| Chemical name | Ireland | Italy MDLPS | Italy AIDII | Latvia | Lithuania |
|---|---|---|---|---|---|
| Cellulose<br>9004-34-6 | TWA: 10 mg/m³<br>STEL: 30 mg/m³ | - | TWA: 10 mg/m³ | TWA: 2 mg/m³ | - |
| Silver nitrate<br>7761-88-8 | TWA: 0.01 mg/m³<br>STEL: 0.03 mg/m³ | TWA: 0.01 mg/m³ | TWA: 0.01 mg/m³ | TWA: 0.01 mg/m³ | TWA: 0.1 mg/m³<br>TWA: 0.01 mg/m³ |
| Chromic acid (H2CrO4), dipotassium salt | TWA: 0.005 mg/m³<br>TWA: 0.01 mg/m³ | TWA: 0.05 mg/m³<br>TWA: 0.010 mg/m³ | TWA: 0.0002 mg/m³<br>STEL: 0.0005 | TWA: 0.005 mg/m³<br>TWA: 0.010 mg/m³ | Sensitizer<br>TWA: 0.005 mg/m³ |

| | | | | | |
|---|---|---|---|---|---|
| 7789-00-6 | TWA: 0.025 mg/m³<br>STEL: 0.15 mg/m³<br>STEL: 0.03 mg/m³<br>STEL: 0.075 mg/m³ | TWA: 0.025 mg/m³ | mg/m³<br>* | TWA: 0.025 mg/m³<br>TWA: 0.01 mg/m³ | STEL: 0.015 mg/m³ |
| Potassium dichromate<br>7778-50-9 | TWA: 0.005 mg/m³<br>TWA: 0.01 mg/m³<br>TWA: 0.025 mg/m³<br>STEL: 0.15 mg/m³<br>STEL: 0.03 mg/m³<br>STEL: 0.075 mg/m³ | TWA: 0.05 mg/m³<br>TWA: 0.010 mg/m³<br>TWA: 0.025 mg/m³ | TWA: 0.0002 mg/m³<br>STEL: 0.0005<br>mg/m³<br>* | TWA: 0.005 mg/m³<br>TWA: 0.010 mg/m³<br>TWA: 0.025 mg/m³<br>TWA: 0.01 mg/m³ | Sensitizer<br>TWA: 0.005 mg/m³<br>STEL: 0.015 mg/m³ |
| Lithium hydroxide monohydrate<br>1310-66-3 | STEL: 1 mg/m³ | - | - | - | - |
| Silica, amorphous<br>7631-86-9 | TWA: 6 mg/m³<br>TWA: 2.4 mg/m³<br>STEL: 18 mg/m³<br>STEL: 7.2 mg/m³ | TWA: 0.1 mg/m³ | - | TWA: 1 mg/m³ | - |
| Magnesium stearate<br>557-04-0 | TWA: 10 mg/m³<br>STEL: 30 mg/m³ | - | TWA: 10 mg/m³<br>TWA: 3 mg/m³ | - | TWA: 5 mg/m³ |

| Chemical name | Luxembourg | Malta | Netherlands | Norway | Poland |
|---|---|---|---|---|---|
| Cellulose<br>9004-34-6 | - | - | - | - | TWA: 2.0 mg/m³ |
| Silver nitrate<br>7761-88-8 | TWA: 0.01 mg/m³ | - | TWA: 0.01 mg/m³ | STEL: 0.03 mg/m³ | TWA: 0.01 mg/m³ |
| Chromic acid (H2CrO4), dipotassium salt<br>7789-00-6 | - | - | TWA: 0.001 mg/m³ | STEL: 0.003 mg/m³ | TWA: 0.010 mg/m³<br>TWA: 0.01 mg/m³ |
| Potassium dichromate<br>7778-50-9 | - | - | TWA: 0.001 mg/m³ | STEL: 0.003 mg/m³ | TWA: 0.010 mg/m³<br>TWA: 0.01 mg/m³ |
| Silica, amorphous<br>7631-86-9 | - | - | TWA: 0.075 mg/m³ | STEL: 3 mg/m³ | TWA: 10 mg/m³<br>TWA: 2 mg/m³ |

| Chemical name | Portugal | Romania | Slovakia | Slovenia | Spain |
|---|---|---|---|---|---|
| Cellulose<br>9004-34-6 | TWA: 10 mg/m³ | TWA: 10 mg/m³ | - | - | TWA: 10 mg/m³ |
| Silver nitrate<br>7761-88-8 | TWA: 0.01 mg/m³ | TWA: 0.01 mg/m³ | TWA: 0.01 mg/m³ | TWA: 0.01 mg/m³<br>STEL: STEL mg/m³ | TWA: 0.01 mg/m³ |
| Chromic acid (H2CrO4), dipotassium salt<br>7789-00-6 | TWA: 0.5 mg/m³<br>TWA: 0.05 mg/m³ | - | - | TWA: 0.010 mg/m³<br>TWA: 0.025 mg/m³ | TWA: 0.05 mg/m³ |
| Potassium dichromate<br>7778-50-9 | TWA: 0.5 mg/m³<br>TWA: 0.05 mg/m³ | - | - | TWA: 0.010 mg/m³<br>TWA: 0.025 mg/m³ | TWA: 0.05 mg/m³ |
| Silica, amorphous<br>7631-86-9 | TWA: 0.05 mg/m³ | - | - | TWA: 4 mg/m³ | - |
| Magnesium stearate<br>557-04-0 | TWA: 10 mg/m³ | - | - | - | TWA: 10 mg/m³ |

| Chemical name | Sweden | Switzerland | United Kingdom |
|---|---|---|---|
| Cellulose<br>9004-34-6 | NGV: 2 mg/m³ | TWA: 3 mg/m³ | TWA: 10 mg/m³<br>TWA: 4 mg/m³<br>STEL: 20 mg/m³<br>STEL: 12 mg/m³ |
| Silver nitrate<br>7761-88-8 | NGV: 0.01 mg/m³<br>NGV: 0.1 mg/m³ | TWA: 0.01 mg/m³<br>STEL: 0.02 mg/m³ | TWA: 0.01 mg/m³ |
| Chromic acid (H2CrO4), dipotassium salt<br>7789-00-6 | NGV: 0.005 mg/m³<br>Sensitizer | TWA: 0.005 mg/m³<br>H* | TWA: 0.01 mg/m³<br>TWA: 0.025 mg/m³ |
| Potassium dichromate<br>7778-50-9 | NGV: 0.005 mg/m³<br>Bindande KGV: 0.015 mg/m³<br>Sensitizer | TWA: 0.005 mg/m³<br>H* | TWA: 0.01 mg/m³<br>TWA: 0.025 mg/m³ |
| Silica, amorphous<br>7631-86-9 | - | TWA: 4 mg/m³ | TWA: 6 mg/m³<br>TWA: 2.4 mg/m³<br>STEL: 18 mg/m³<br>STEL: 7.2 mg/m³ |

| | | | |
|---|---|---|---|
| Magnesium stearate<br>557-04-0 | NGV: 5 mg/m³ | - | - |

**Biological occupational exposure limits**

| Chemical name | European Union | Austria | Bulgaria | Croatia | Czech Republic |
|---|---|---|---|---|---|
| Chromic acid (H2CrO4), dipotassium salt<br>7789-00-6 | - | 9 µg/L (blood - Ethylenediaminetetraacetic acid not provided)<br>12 µg/L (urine - spontaneous urine after end of work day, at the end of a work week/end of the shift)<br>( - ) | - | 5 µg/g Creatinine - urine (Chromium) - single sample at the end of the work shift | - |
| Potassium dichromate<br>7778-50-9 | - | 9 µg/L (blood - Ethylenediaminetetraacetic acid not provided)<br>12 µg/L (urine - spontaneous urine after end of work day, at the end of a work week/end of the shift)<br>( - ) | - | 5 µg/g Creatinine - urine (Chromium) - single sample at the end of the work shift | - |

| Chemical name | Denmark | Finland | France | Germany DFG | Germany TRGS |
|---|---|---|---|---|---|
| Chromic acid (H2CrO4), dipotassium salt<br>7789-00-6 | - | - | 0.01 mg/g creatinine - urine (Total Chromium) - during shift<br>0.03 mg/g creatinine - urine (Total Chromium) - end of shift at end of workweek | 0.6 µg/L - BAR (end of exposure or end of shift) urine | - |
| Potassium dichromate<br>7778-50-9 | - | - | 0.01 mg/g creatinine - urine (Total Chromium) - augmented during shift<br>0.03 mg/g creatinine - urine (Total Chromium) - end of shift at end of workweek | 0.6 µg/L - BAR (end of exposure or end of shift) urine | - |

| Chemical name | Hungary | Ireland | Italy MDLPS | Italy AIDII |
|---|---|---|---|---|
| Chromic acid (H2CrO4), dipotassium salt<br>7789-00-6 | - | 25 µg/L (urine - total Chromium end of shift at end of workweek)<br>10 µg/L (urine - total Chromium increase during shift) | - | 25 µg/L - urine (Total chromium) - end of shift at end of workweek<br>10 µg/L - urine (Total chromium) - increase during shift |
| Potassium dichromate<br>7778-50-9 | - | 25 µg/L (urine - total Chromium end of shift at end of workweek)<br>10 µg/L (urine - total Chromium increase during shift) | - | 25 µg/L - urine (Total chromium) - end of shift at end of workweek<br>10 µg/L - urine (Total chromium) - increase during shift |

| | |
|---|---|
| **Derived No Effect Level (DNEL)** | No information available. |
| **Predicted No Effect Concentration (PNEC)** | |

**8.2. Exposure controls**

**Personal protective equipment**

| | |
|---|---|
| **Eye/face protection** | Tight sealing safety goggles. Face protection shield. |
| **Hand protection** | Wear suitable gloves. Impervious gloves. |
| **Skin and body protection** | Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. |
| **Respiratory protection** | No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. |
| **General hygiene considerations** | Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid breathing dust/fume/gas/mist/vapours/spray. |
| **Environmental exposure controls** | No information available. |

## SECTION 9: Physical and chemical properties

**9.1. Information on basic physical and chemical properties**

| | |
|---|---|
| **Physical state** | Solid |
| **Appearance** | tablet |
| **Colour** | beige |
| **Odour** | Odourless. |
| **Odour threshold** | |

| **Property** | **Values** | **Remarks • Method** |
|---|---|---|
| **Melting point / freezing point** | No data available | None known |
| **Boiling point / boiling range** | No data available | None known |
| **Flammability (solid, gas)** | No data available | None known |
| **Flammability Limit in Air** | | None known |
| **Upper flammability or explosive limits** | No data available | |
| **Lower flammability or explosive limits** | No data available | |
| **Flash point** | No data available | None known |
| **Autoignition temperature** | 232 °C | None known |
| **Decomposition temperature** | | None known |
| **pH** | 7.0 | None known |
| **pH (as aqueous solution)** | No data available | No information available |
| **Kinematic viscosity** | No data available | None known |
| **Dynamic viscosity** | No data available | None known |
| **Water solubility** | No data available | None known |
| **Solubility(ies)** | No data available | None known |
| **Partition coefficient** | No data available | None known |
| **Vapour pressure** | No data available | None known |
| **Relative density** | No data available | None known |
| **Bulk density** | No data available | |
| **Liquid Density** | No data available | |
| **Relative vapour density** | No data available | None known |

**Particle characteristics**
**Particle Size**
**Particle Size Distribution**

**9.2. Other information**

*9.2.1. Information with regards to physical hazard classes*
Not applicable

*9.2.2. Other safety characteristics*

## SECTION 10: Stability and reactivity

**10.1. Reactivity**

**Reactivity** No information available.

**10.2. Chemical stability**

**Stability** Stable under normal conditions.

**Explosion data**
**Sensitivity to mechanical impact** None.
**Sensitivity to static discharge** None.

**10.3. Possibility of hazardous reactions**

**Possibility of hazardous reactions** None under normal processing.

**10.4. Conditions to avoid**

**Conditions to avoid** Exposure to air or moisture over prolonged periods. Excessive heat.

**10.5. Incompatible materials**

**Incompatible materials** Acids. Bases. Oxidising agent.

**10.6. Hazardous decomposition products**

**Hazardous decomposition products** None known based on information supplied.

## SECTION 11: Toxicological information

**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

**Information on likely routes of exposure**

**Product Information**

**Inhalation** Specific test data for the substance or mixture is not available. Corrosive by inhalation. (based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal. May cause irritation of respiratory tract. Harmful by inhalation.

**Eye contact** Specific test data for the substance or mixture is not available. Causes serious eye damage. (based on components). Corrosive to the eyes and may cause severe damage including blindness. Causes serious eye irritation.

**Skin contact** Specific test data for the substance or mixture is not available. Corrosive. (based on

components). Causes burns. May cause sensitisation by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

**Ingestion** Specific test data for the substance or mixture is not available. Causes burns. (based on components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** Redness. Burning. May cause blindness. Coughing and/ or wheezing. Itching. Rashes. Hives. May cause redness and tearing of the eyes.

**Numerical measures of toxicity**

**Acute toxicity**

**The following ATE values have been calculated for the mixture**

**ATEmix (oral)** 2,357.10 mg/kg
**ATEmix (dermal)** 2,070.50 mg/kg
**ATEmix (inhalation-dust/mist)** 1.8878 mg/l

**Unknown acute toxicity**

46.38 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
49.59 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
98.305 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
98.305 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapour).
55.57 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

**Component Information**

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| Cellulose | > 5 g/kg ( Rat ) | > 2000 mg/kg ( Rabbit ) | > 5800 mg/m³ ( Rat ) 4 h |
| Silver nitrate | = 1173 mg/kg ( Rat ) | > 2000 mg/kg ( Rat ) | > 750 µg/m³ ( Rat ) 4 h |
| Potassium dichromate | = 48 mg/kg ( Rat ) | = 1150 mg/kg ( Rabbit ) | = 99 mg/m³ ( Rat ) 4 h |
| Lithium hydroxide monohydrate | = 120 mg/kg ( Rat ) | | = 0.96 mg/L ( Rat ) 4 h |
| Silica, amorphous | = 7900 mg/kg ( Rat ) | > 5000 mg/kg ( Rabbit ) | > 58.8 mg/L ( Rat ) 4 h |

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** Classification based on data available for ingredients. Causes burns.

**Serious eye damage/eye irritation** Classification based on data available for ingredients. Risk of serious damage to eyes. Causes serious eye irritation.

**Respiratory or skin sensitisation** May cause sensitisation by skin contact.

**Germ cell mutagenicity** Contains a known or suspected mutagen. Classification based on data available for ingredients. May cause genetic defects.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as mutagenic.

| Chemical name | European Union |
|---|---|
| Chromic acid (H2CrO4), dipotassium salt | Muta. 1B |
| Potassium dichromate | Muta. 1B |

**Carcinogenicity** Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical name | European Union |
|---|---|
| Chromic acid (H2CrO4), dipotassium salt | Carc. 1B |
| Potassium dichromate | Carc. 1B |

**Reproductive toxicity** Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. May damage fertility or the unborn child.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

| Chemical name | European Union |
|---|---|
| Potassium dichromate | Repr. 1B |

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

**11.2. Information on other hazards**

**11.2.1. Endocrine disrupting properties**

**Endocrine disrupting properties**

**11.2.2. Other information**

**Other adverse effects**

## SECTION 12: Ecological information

**12.1. Toxicity**

**Ecotoxicity** Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

**Unknown aquatic toxicity** Contains 93.08 % of components with unknown hazards to the aquatic environment.

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|---|---|---|---|---|
| Silver nitrate | - | LC50: 0.001339 - 0.001637mg/L (96h, Oncorhynchus mykiss) LC50: 0.00181 - 0.00214mg/L (96h, Pimephales promelas) LC50: 0.00452 - 0.00638mg/L (96h, Pimephales promelas) LC50: 0.00512 - 0.00787mg/L (96h, Poecilia reticulata) LC50: 0.0064 - | - | EC50: 0.0008 - 0.001mg/L (48h, Daphnia magna) EC50: 0.0008 - 0.0011mg/L (48h, Daphnia magna) EC50: =0.0006mg/L (48h, Daphnia magna) |

| | | | | |
|---|---|---|---|---|
| | | 0.0106mg/L (96h, Pimephales promelas)<br>LC50: 0.00839 - 0.1802mg/L (96h, Oncorhynchus mykiss)<br>LC50: 0.009 - 0.02mg/L (96h, Lepomis macrochirus)<br>LC50: 0.0242 - 0.0484mg/L (96h, Lepomis macrochirus)<br>LC50: 0.05 - 0.07mg/L (96h, Lepomis macrochirus)<br>LC50: =0.0027mg/L (96h, Cyprinus carpio)<br>LC50: =0.0075mg/L (96h, Oncorhynchus mykiss)<br>LC50: =0.009mg/L (96h, Pimephales promelas) | | |
| Potassium dichromate | - | LC50: 113.6 - 155.7mg/L (96h, Lepomis macrochirus)<br>LC50: 14 - 20.9mg/L (96h, Pimephales promelas)<br>LC50: 15.41 - 30.36mg/L (96h, Pimephales promelas)<br>LC50: 21.209 - 30.046mg/L (96h, Oryzias latipes)<br>LC50: 23 - 41.2mg/L (96h, Poecilia reticulata)<br>LC50: 24.81 - 34.55mg/L (96h, Poecilia reticulata)<br>LC50: 65.6 - 137.6mg/L (96h, Lepomis macrochirus)<br>LC50: =12.3mg/L (96h, Oncorhynchus mykiss)<br>LC50: =320mg/L (96h, Lepomis macrochirus)<br>LC50: >139mg/L (96h, Cyprinus carpio) | - | - |
| Silica, amorphous | EC50: =440mg/L (72h, Pseudokirchneriella subcapitata) | LC50: =5000mg/L (96h, Brachydanio rerio) | - | EC50: =7600mg/L (48h, Ceriodaphnia dubia) |

**12.2. Persistence and degradability**

**Persistence and degradability**

**12.3. Bioaccumulative potential**

**Bioaccumulation** No information available.

**12.4. Mobility in soil**

**Mobility in soil**

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

**PBT and vPvB assessment**

| Chemical name | PBT and vPvB assessment |
|---|---|
| Silver nitrate | PBT assessment does not apply |
| Potassium dichromate | PBT assessment does not apply |
| Lithium hydroxide monohydrate | The substance is not PBT / vPvB |
| Silica, amorphous | The substance is not PBT / vPvB PBT assessment does not apply |

**12.6. Endocrine disrupting properties**

**Endocrine disrupting properties**

**12.7. Other adverse effects**
No information available.

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

## SECTION 14: Transport information

**IATA**

**14.1 UN number or ID number** UN1759
**14.2 UN proper shipping name** Corrosive solid, n.o.s. (Silver nitrate, Potassium dichromate)
**14.3 Transport hazard class(es)** 8
**14.4 Packing group** II
**Description** UN1759, Corrosive solid, n.o.s. (Silver nitrate, Potassium dichromate), 8, II
**14.5 Environmental hazards** Yes
**14.6 Special precautions for user**
**Special Provisions** A3, A803
**ERG Code** 8L

**IMDG**

**14.1 UN number or ID number** UN1759
**14.2 UN proper shipping name** Corrosive solid, n.o.s. (Silver nitrate, Chromic acid (H2CrO4), dipotassium salt)
**14.3 Transport hazard class(es)** 8
**14.4 Packing group** II
**Description** UN1759, Corrosive solid, n.o.s. (Silver nitrate, Chromic acid (H2CrO4), dipotassium salt), 8, II, Marine pollutant
**14.5 Marine pollutant** P
**Environmental hazards** Yes
**14.6 Special precautions for user**
**Special Provisions** 274
**EmS-No** F-A, S-B
**14.7 Maritime transport in bulk according to IMO instruments**

**RID**

**14.1 UN number or ID number** UN1759
**14.2 UN proper shipping name** Corrosive solid, n.o.s. (Silver nitrate, Potassium dichromate)
**14.3 Transport hazard class(es)** 8
**14.4 Packing group** II
**Description** UN1759, Corrosive solid, n.o.s. (Silver nitrate, Potassium dichromate), 8, II,

Environmentally Hazardous

**14.5 Environmental hazards** Yes

**14.6 Special precautions for user**

**Special Provisions** 274

**Classification code** C10

**ADR**

**14.1 UN number or ID number** UN1759

**14.2 UN proper shipping name** Corrosive solid, n.o.s. (Silver nitrate, Potassium dichromate)

**14.3 Transport hazard class(es)** 8

**14.4 Packing group** II

**Description** UN1759, Corrosive solid, n.o.s. (Silver nitrate, Potassium dichromate), 8, II, (E), Environmentally Hazardous

**14.5 Environmental hazards** Yes

**14.6 Special precautions for user**

**Special Provisions** 274

**Classification code** C10

**Tunnel restriction code** (E)

## SECTION 15: Regulatory information

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**National regulations**

**France**

**Occupational Illnesses (R-463-3, France)**

| Chemical name | French RG number | Title |
|---|---|---|
| Cellulose<br>9004-34-6 | RG 66 | - |
| Chromic acid (H2CrO4), dipotassium salt<br>7789-00-6 | RG 10,RG 10bis,RG 10ter | - |
| Potassium dichromate<br>7778-50-9 | RG 10,RG 10bis,RG 10ter | - |
| Silica, amorphous<br>7631-86-9 | RG 25 | - |

**Water hazard class (WGK)** strongly hazardous to water (WGK 3)

**Netherlands**

| Chemical name | Netherlands - List of Carcinogens | Netherlands - List of Carcinogens | Netherlands - List of Reproductive Toxins |
|---|---|---|---|
| Chromic acid (H2CrO4), dipotassium salt | Present | Present | Fertility Category 2<br>Development Category 1B |
| Potassium dichromate | Present | Present | Fertility Category 1B<br>Can be harmful via breastfeeding<br>Development Category 1B |

**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

**Authorisations and/or restrictions on use:**

This product contains one or more substance(s) subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

| Chemical name | Restricted substance per REACH Annex XVII | Substance subject to authorisation per REACH Annex XIV |
|---|---|---|

| | | |
|---|---|---|
| Chromic acid (H2CrO4), dipotassium salt - 7789-00-6 | 72.<br>28.<br>29. | X |
| Potassium dichromate - 7778-50-9 | 72.<br>28.<br>29.<br>30. | X |

**Persistent Organic Pollutants**
Not applicable

**Dangerous substance category per Seveso Directive (2012/18/EU)**
E2 - Hazardous to the Aquatic Environment in Category Chronic 2

**Ozone-depleting substances (ODS) Regulation (EU) 2024/590**
Not applicable

**Biocidal Products Regulation (EU) No 528/2012 (BPR)**

| Chemical name | Biocidal Products Regulation (EU) No 528/2012 (BPR) |
|---|---|
| Silver nitrate - 7761-88-8 | Product-type 1: Human hygiene |

**International Inventories**

| | |
|---|---|
| **TSCA** | Complies |
| **DSL/NDSL** | Does not comply |
| **EINECS/ELINCS** | Does not comply |
| **ENCS** | Does not comply |
| **IECSC** | Complies |
| **KECL** | Does not comply |
| **PICCS** | Complies |
| **AICS** | Complies |

**Legend:**
**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
**ENCS** - Japan Existing and New Chemical Substances
**IECSC** - China Inventory of Existing Chemical Substances
**KECL** - Korean Existing and Evaluated Chemical Substances
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances
**AICS** - Australian Inventory of Chemical Substances

**15.2. Chemical safety assessment**

**Chemical Safety Report**

## SECTION 16: Other information

**Key or legend to abbreviations and acronyms used in the safety data sheet**

**Full text of any hazard and/or precautionary statements referred to under Sections 2-15**
H272 - May intensify fire; oxidiser
H301 - Toxic if swallowed
H302 - Harmful if swallowed
H312 - Harmful in contact with skin
H314 - Causes severe skin burns and eye damage
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage

H319 - Causes serious eye irritation
H330 - Fatal if inhaled
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335 - May cause respiratory irritation
H340 - May cause genetic defects
H350 - May cause cancer
H350i - May cause cancer by inhalation
H360FD - May damage fertility. May damage the unborn child
H372 - Causes damage to organs through prolonged or repeated exposure
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects

**Legend**
SVHC: Substances of Very High Concern for Authorisation:

**Legend Section 8: Exposure controls/personal protection**

| | | | |
|---|---|---|---|
| TWA | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value | * | Skin designation |

| Classification procedure | |
|---|---|
| Classification according to Regulation (EC) No. 1272/2008 [CLP] | Method Used |
| Acute oral toxicity | Calculation method |
| Acute dermal toxicity | Calculation method |
| Acute inhalation toxicity - gas | Calculation method |
| Acute inhalation toxicity - Vapour | Calculation method |
| Acute inhalation toxicity - dust/mist | Calculation method |
| Skin corrosion/irritation | Calculation method |
| Serious eye damage/eye irritation | Calculation method |
| Respiratory sensitisation | Calculation method |
| Carcinogenicity | Calculation method |
| STOT - single exposure | Calculation method |
| STOT - repeated exposure | Calculation method |
| Acute aquatic toxicity | Calculation method |
| Chronic aquatic toxicity | Calculation method |
| Aspiration hazard | Calculation method |

**Key literature references and sources for data used to compile the SDS**
Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan GHS Classification
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme
Organisation for Economic Co-operation and Development Screening Information Data Set
World Health Organization

**Revision date** 01-29-2025

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**
**Disclaimer**

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**End of Safety Data Sheet**