



Safety Data Sheet

According to Regulation (EC) No. 1907/2006
OSHA Regulation 29 CFR 1910.1200
Canadian Regulation SOR/88-66

Revision Date: 2012-05-25
Reason for Revision: Section 14 Updated

SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY

Product Name: Chloride Indicator
Application: Determination of Chloride in Water Samples
Company Information (USA): Hanna Instruments, Inc.
584 Park East Dr, Woonsocket, Rhode Island, USA 02895
Technical Service Contact Information: 1-800-426-6287 (8:30AM - 5:00PM ET)
+1-401-766-4260 (8:30AM - 5:00PM ET)
USA Emergency Contact Information: 1-800-424-9300 (Chemtrec 24Hr. Emergency)
International Emergency Contact Information: +1-703-527-3887 (Chemtrec 24Hr. Emergency)
E-mail Address: tech@hannainst.com

SECTION 2: HAZARD IDENTIFICATION

May cause sensitisation by skin contact. May cause heritable genetic damage. May cause cancer by inhalation. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 3: COMPOSITION AND COMPONENT INFORMATION

Component: Potassium Chromate
EC-No.: 232-140-5
CAS-No.: 7789-00-6
Hazard: N, Xi, Carc.Cat. 2, Muta. Cat. 2
Phrases: R: 36/37/38-43-46-49-50/53
Content: > 0.5 - < 2.5%

SECTION 4: FIRST AID MEASURES

After Inhalation: Remove to fresh air. Summon doctor.
After Skin Contact: Wash affected area with plenty of water. Immediately remove contaminated clothing.
After Eye Contact: Rinse out immediately with plenty of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers and seek medical advice.
After Swallowing: Wash out mouth with water, provided person is conscious. Call a physician.
General Information: Remove contaminated, soaked clothing immediately and dispose of safely.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:
Carbon Dioxide, Dry Chemical Powder, Appropriate Foam
Special Risks:
Development of hazardous combustion gases or vapors possible in the event of fire.
Special Protective Equipment:
Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.
Additional Information:
Product itself is non-combustible. Cool container with spray water from a safe distance. Contain escaping vapors with water.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

Environmental Precautions:

Do not discharge into the drains/surface waters/groundwater.

Additional Notes:

Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

SECTION 7: HANDLING AND STORAGE

Handling:

Avoid generation of vapors/aerosols. Work under hood.
Do not inhale substance.

Storage:

Tightly closed. In a well-ventilated place at +15 to +25 °C. Protect from light. Accessible only for authorized persons.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering:

Safety shower and eye wash.

Personal Protective Equipment:

As appropriate to quantity handled.

Respiratory Protection:

Required when vapors/aerosols are generated. Work under hood.

Protective Gloves:

Rubber or plastic

Eye Protection:

Goggles or face mask

Industrial Hygiene:

Wash thoroughly after handling. Remove and wash contaminated clothing promptly. Discard contaminated shoes.

SECTION 9: PHYSICAL/CHEMICAL PROPERTIES

Appearance: Yellow liquid

Odor: Odorless

Density at 20°C: ~ 1.04 g/cm³

Melting Point: NA

Boiling Point: ND

Solubility: Soluble

pH at 20°C: 8.75

Explosion Limit: NA

Flash Point: NA

Thermal Decomp.: NA

SECTION 10: STABILITY AND REACTIVITY

Conditions to be Avoided:

Strong Heating. Stable in the recommended storage conditions.

Hazardous Decomposition Products:

In the event of fire: See section 5.

Hazardous Polymerization:

Will not occur.

Substances to be Avoided:

Strong oxidizing agents

Further Information:

Not available

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SECTION 11: TOXICOLOGICAL INFORMATION

Product Toxicity

Quantitative data on the toxicity of this product is not available.

Potential Health Effects:

- Inhalation:** Toxic if inhaled. Material is irritating to mucous membranes and upper respiratory tract.
- Skin Contact:** Skin irritations. toxic if absorbed through the skin.
- Eye Contact:** Eye irritations.
- Ingestion:** Toxic if swallowed.
- Further Data:** Target organ information
Lungs. Kidneys. Liver. Blood. Eyes. Skin.
Chronic exposure - carcinogen
Result: This is or contains a component that has been reported to be carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.
Chronic exposure - mutagen
Result: May alter genetic material. Further hazardous properties cannot be excluded. The product should be handled with the usual care when dealing with chemicals.

Component Toxicity

Acute Toxicity:

Not Available

Chronic Toxicity:

Not Available

Additional Data:

APPLICABLE TO PARTIAL COMPONENT:
The following applies to Potassium Chromate – as the pure substance:
Acute toxicity
LD50, oral, mouse: 180 mg/Kg – calculated on the pure substance.
Sensitisation
Skin: May cause allergic skin reaction.

SECTION 12: ECOLOGICAL INFORMATION

Quantitative data on the toxicity of this product is not available.

APPLICABLE TO PARTIAL COMPONENT:

The following applies to Potassium chromate – as the pure substance:

Ecotoxicological effects

Test Type: LC50 Fish, Species: Leuciscus idus, time: 96 h: value: 0.029 mg/L

Test Type: EC50 Daphnia, Species: Daphnia magna, time: 48 h: value: 0.002 mg/L

Further Data: Harmful effects on aquatic organisms. May cause long-term adverse effects in the aquatic environment. DO NOT ALLOW TO ENTER WATERS, WASTE WATERS, OR SOIL!

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Chemical residues are generally classified as special waste and thus covered by local regulations. Contact local authorities or disposal companies for advice. Handle contaminated packaging in the same way as the substance itself.

SECTION 14: TRANSPORTATION INFORMATION

Land:

Not subject to transport regulations

Sea:

Not subject to transport regulations

Air:

Not subject to transport regulations

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SECTION 15: REGULATORY INFORMATION

Labeling according to EC Directives:

Symbol: T: Toxic

R-phrases: 43-46-49-52/53: May cause sensitisation by skin contact. May cause heritable genetic damage. May cause cancer by inhalation. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases: 28.1-36/37-45-53-61: After contact with skin, wash immediately with plenty of water. Wear suitable protective clothing and gloves. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Avoid exposure - obtain special instructions before use. Avoid release to the environment. Refer to special instructions/safety data sheets.

Contains: Potassium chromate

SECTION 16: OTHER INFORMATION

Text of R-phrases under Section 3

43: May cause sensitization by skin contact.
 46: May cause heritable genetic damage.
 49: May cause cancer by inhalation.
 36/37/38: Irritating to eyes, respiratory system and skin.
 50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Revision Information

Revision Date: 2012-05-25
Supersedes edition of: 2009-06-10
Reason for revision: Section 14 Updated

Legend

NA: Not Applicable
 ND: Not Determined

THE INFORMATION CONTAINED HEREIN IS BASED ON THE PRESENT STATE OF OUR KNOWLEDGE. IT CHARACTERIZES THE PRODUCT WITH REGARD TO THE APPROPRIATE SAFETY PRECAUTIONS. IT DOES NOT REPRESENT A GUARANTEE OF THE PROPERTIES OF THE PRODUCT.