

Chromium VI Low Range Reagent Safety Data Sheet

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

Revision Date: 2012-06-21 **Reason for Revision:** (1st edition)

SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY

Product Name: HI 749-0 Chromium VI Low Range Reagent Additional Product Codes: HI 749-25

Application: Determination of Hexavalent Chromium 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

Causes severe skin burns and eye damage. Harmful to aquatic life with long lasting effects.

According to Regulation (EC) No. 1272/2008:

Classification: Skin Corrosion (Category 1B)

Chronic Aquatic Toxicity (Category 3)

Signal Word: Danger

Pictograms:



Hazard H314: Causes severe skin burns and eye damage. **Statements:** H412: Harmful to aquatic life with long lasting effects.

Precaution P273: Avoid release to the environment.

Statements: P280: Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

According to Directives 67/548/EEC and 1999/45/EC:

Symbol: C: Corrosive

R-phrases: 34-52/53: Causes burns. Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic

environment.

S-phrases: 26-28.1-61: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact

with skin, wash immediately with plenty of water. Avoid release to the environment. Refer to special instructions/Safety

data sheet.

SECTION 3: COMPOSITION AND COMPONENT INFORMATION

Component:	EC No:	CAS No:	Hazard Class:	Phrases:	Concentration:
Potassium disulfate	232-216-8	7790-62-7	Skin Corr. 1B C	H314 R: 34	> 50% - < 75%
Sulfamic acid	226-218-8	5329-14-6	Eye Irrit. 2 Skin Irrit. 2 Aquatic Chronic 3 Xi	H315, H319, H412 R: 36/38-52/53	> 25% - < 50%





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SECTION 4: FIRST AID MEASURES

After Inhalation: Remove to fresh air. Call a physician if breathing becomes difficult. After Skin Contact: Wash affected area with plenty of water. Remove contaminated clothing.

After Eve Contact: Rinse out with plenty of water with the eyelid held wide open. Call in ophthalmologist.

After Swallowing: Make victim drink plenty of water. Call in physician.

General Information: Not available

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Water spray, Carbon Dioxide, Dry Chemical Powder, Appropriate Foam.

Special Risks:

Non-combustible. Development of hazardous combustion gases or vapors possible in the event of fire. The following may develop in event of fire: Sulfur Oxides, Nitrogen Oxides

Special Protective Equipment:

Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.

Additional Information:

Contain escaping vapors with water. Prevent fire residues and contaminated fire fighting water from entering surface water or groundwater.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Avoid formation of dusts. Do not inhale dusts. Avoid substance contact.

Environmental Precautions:

Do not discharge into drains/surface waters/groundwater.

Additional Notes:

Take up dry. Clean up affected area and dispose according to local regulation. Avoid generation of dusts.

HANDLING AND STORAGE **SECTION 7:**

Handling: Storage:

Avoid generation of dusts. Work under hood. Store at room temperature (+15 to +25 °C recommended). Tightly

closed in a dry and well-ventilated place.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering:

Maintain general industrial hygiene practice.

Personal Protective Equipment:

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be determined with the respective supplier.

Respiratory Protection: Protective Gloves: Eve Protection:

Required when dusts are generated. Rubber or plastic Goggles or face mask

Industrial Hygiene:

Change contaminated clothing. Application of skin-protectve barrier cream recommended. Wash hands after working with substance.





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SECTION 9: PHYSICAL/CHEMICAL PROPERTIES

Appearance: White powder Odor: Odorless Density at 20°C: ND

Melting Point: 205°C Boiling Point: NA Solubility: 213 g/L at 20°C

pH at 20°C: 1.0 – 1.5 at 20 g/L Explosion Limit: NA Flash Point: NA

Thermal Decomp.: 209°C

SECTION 10: STABILITY AND REACTIVITY

Conditions to be Avoided: Hazardous Decomposition Products:

Strong Heating In the event of fire: See section 5.

Hazardous Polymerization: Substances to be Avoided:

Will not occur. Halogens, alkalis, oxidizing agents, metals with water

Further Information:

Stable in the recommended storage conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

Product Toxicity

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

Potential Health Effects:

Inhalation: Irritation symptoms in the respiratory tract. Coughing, dyspnoea.

Skin Contact: Irritations.

Eye Contact: Severe irritations.

Ingestion: Irritations of mucous membranes in the mouth, pharynx, esophagus and gastrointestinal tract.

Not Available

Further Data: The product should be handled with the usual care when dealing with chemicals.

Component Toxicity

Acute Toxicity: Chronic Toxicity:

Sulfamic Acid

LD50: Oral - Rat - 3160 mg/kg

Additional Data:

APPLICABLE TO MAIN COMPONENT:

The following applies to Sulfamic acid, as the pure substance:

Specific symptoms in animal studies:

Eye irritation test (rabbit): Severe irritations (OECD 405).

Skin irritation test (rabbit): Irritations (OECD 404).

Subacute to chronic toxicity

No sensitizing effect.

Bacterial mutagenicity: Ames test: negative.

Mutagenicity (mammal cell test): micronucleus negative.



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SECTION 12: ECOLOGICAL INFORMATION

Quantitative data on the ecological effect of this product is not available.

APPLICABLE TO MAIN COMPONENT:

The following applies to Sulfamic acid, as the pure substance:

Biologic degradation:

Methods for the determination of biodegradability are not applicable to inorganic substances.

Behavior in environmental compartments: Distribution: log p(o/w): -4.34 (calculated).

No bioaccumulation is to be expected (log P(o/w <1).

Ecotoxic effects: Biological effects:

Harmful effect on aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Harmful effect due to pH shift.

Fish toxicity: P.promelas LC50: 70.3 mg/L /96 h. Bacterial toxicity: Ps.putida EC10: = 1000 mg/L /16 h.

Do not allow to enter waters, waste waters, or soil! Further Data:

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 (ADR/RID): Sea (IMDG): Air (ICAO/IATA):

UN No.: 3260 3260 3260

Proper Shipping Name: Corrosive solid, acidic, inorganic, n.o.s. Corrosive solid, acidic, inorganic, n.o.s. Corrosive solid, acidic, inorganic, n.o.s.

(potassium disulfate/sulphamic acid (potassium disulfate/sulphamic acid

mixture) mixture) mixture) Class (Sub Risk): 8 8

Packing Group: Ш Ш П

SECTION 15: REGULATORY INFORMATION

Complies with European Regulations (EC) No. 1907/2006 and No. 1272/2008.

Complies with European Council Directives 67/548/EEC and 1999/45/EC.

Complies with OSHA Regulation 29 CFR 1910.1200.

Complies with Canadian Regulation SOR/88-66

SECTION 16: OTHER INFORMATION

Text of phrases under Section 3

R34: Causes burns.

R36/38: Irritating to eyes and skin

R52/53: Harmful to aquatic organisms. May cause long-term adverse effects in the

aquatic environment.

H314: Causes severe skin burns and eve damage.

H315: Causes skin irritation.

H319: Causes serious eve irritation.

H412: Harmful to aquatic life with long lasting effects.

Revision Information

Reason for revision:

Revision Date: 2012-06-21 Supersedes edition of: (1st edition)

Legend NA: Not Applicable

ND: Not Determined

(1st edition)

(potassium disulfate/sulphamic acid

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.