

# MATERIAL SAFETY DATA SHEET

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## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** AquaChek® White Salt Test Strips  
**Catalog Number:** 561140A

Hach Company  
P.O.Box 389  
Loveland, CO USA 80539  
(970) 669-3050

Emergency Telephone Numbers:  
(Medical and Transportation)  
(303) 623-5716 24 Hour Service  
(515)232-2533 8am - 4pm CST

**MSDS Number:** M03210

This product is a component of a multi-phase article. End-user may come in contact fully with each phase if article is broken and/or contents exposed.

**Chemical Name:** Not applicable

**TSCA CAS Number:** Not applicable

**Alternate CAS No. (for hydrated forms):** Not applicable

**Chemical Formula:** Not applicable

**Chemical Family:** Not applicable

**Intended Use:** Determination of salt content

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## 2. HAZARDS IDENTIFICATION

The following classification information pertains to the paper laminated within the plastic layers. It is provide for your information. This article presents no hazards to the user unless the integrity of the item is compromised enough to expose the user to the impregnated paper that is laminated between the two plastic layers.

**GHS Classification:**

**Hazard categories:** Not applicable

**GHS Label Elements:**

Not applicable

**Hazard statements:** Not applicable

**Precautionary statements:** Not applicable

**HMIS:**

**Health:** 0

**Flammability:** 0

**Reactivity:** 0

**Protective Equipment:** X - See protective equipment, Section 8.

**NFPA:**

**Health:** 0

**Flammability:** 0

**Reactivity:** 0

**Symbol:** Not applicable

**WHMIS Hazard Classification:** Not applicable

**WHMIS Symbols:** Not applicable

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## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Hazardous Components per Regulation (EC) No. 1272/2008:**

**Quantab Signal String**

**TSCA CAS Number:** Not applicable

**Chemical Formula:** Not applicable

**GHS Classification:** Aquatic Chronic 2, H411

**Percent Range:** 100.0  
**Percent Range Units:** weight / weight  
**PEL:** 15 mg/m<sup>3</sup> as total dust; 5 mg/m<sup>3</sup> as respirable dust  
**TLV:** 10 mg/m<sup>3</sup> as inhalable dust; 3 mg/m<sup>3</sup> as respirable dust

**WHMIS Symbols:** Not applicable

**High Range Quantab Paper**

**TSCA CAS Number:** Not applicable  
**Chemical Formula:** Not applicable  
**GHS Classification:** Acute Tox.5-Oral, H303; Skin Irr. 2, H315; Eye irr. 2A, H319; Resp.Sen 1, H334; Skin Sen 1, H317; Germ Muta 1B, H340; Carc 1B, H350; Repr 1B, H360; STOT single 2, H371; Aquatic chronic 2, H411  
**Percent Range:** 100.0  
**Percent Range Units:** weight / weight  
**PEL:** Not established  
**TLV:** Not established

**WHMIS Symbols:** Acute Poison

**Silver Chromate (component of QuanTab Paper)**

**TSCA CAS Number:** 7784-01-2  
**Chemical Formula:** Ag<sub>2</sub>CrO<sub>4</sub>  
**GHS Classification:** Ox. Solid. 2, H272; Acute Tox. 3-Orl, H301;Skin Sens. 1 H317; resp. Sens 1 H334;Carc. 1A H350;STOT Single 1 H370;Aquatic Chronic 1 H410  
**Percent Range:** 1.0 - 5.0  
**Percent Range Units:** weight / weight  
**PEL:** 0.01 mg/m<sup>3</sup> as Ag; 0.1 mg/m<sup>3</sup> ceiling as CrO<sub>3</sub>  
**TLV:** 0.01 mg/m<sup>3</sup>

**WHMIS Symbols:** Other Toxic Effects

**Potassium Dichromate (component of QuanTab paper)**

**TSCA CAS Number:** 7778-50-9  
**Chemical Formula:** K<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub>  
**GHS Classification:** Ox. Sol. 2, H272; Acute Tox. 2-Orl, H300; Acute Tox. 4-Derm, H312; Skin Corr. 1B, H314; Skin Sens. 1, H317; Acute Tox. 2-Inh, H330; Resp. Sens. 1, H334; Muta. 1B, H340; Carc. 1B, H350; Repr. 1B, H360; STOT Rep. 1, H372; Aquatic Chronic 1, H410  
**Percent Range:** 0.1 - 1.0  
**Percent Range Units:** weight / weight  
**PEL:** 0.005 mg Cr(VI)/m<sup>3</sup>  
**TLV:** 0.025 mg Cr(VI)/m<sup>3</sup>

**WHMIS Symbols:** Other Toxic Effects

**Bromophenol Blue, Sodium Salt (component of Signal String)**

**TSCA CAS Number:** 34725-61-6  
**Chemical Formula:** C<sub>19</sub>H<sub>9</sub>Br<sub>4</sub>NaO<sub>5</sub>S  
**GHS Classification:** Aq.Chron. 1, H410  
**Percent Range:** 0.1 - 1.0  
**Percent Range Units:** weight / weight  
**PEL:** 15 mg/m<sup>3</sup> as inhalable dust; 5 mg/m<sup>3</sup> as respirable dust  
**TLV:** 10 mg/m<sup>3</sup> as inhalable dust; 3 mg/m<sup>3</sup> as respirable dust

**WHMIS Symbols:** Not applicable

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## 4. FIRST AID

**General Information:** In the event of exposure, show this Material Safety Data Sheet and label (where possible) to a doctor.

**Advice to doctor:** Treat symptomatically.

This product is a manufactured article as defined in 29 CFR 1910.1200.

**Eye Contact:** No first aid should be necessary.

**Skin Contact (First Aid):** No first aid should be necessary.

**Inhalation:** None required.

**Ingestion (First Aid):** No first aid should be necessary.

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## 5. FIRE FIGHTING MEASURES

**Flammable Properties:** Can burn in fire, releasing toxic vapors.

**Fire Fighting Instruction:** As in any fire, wear self-contained breathing apparatus pressure-demand and full protective gear.

**Extinguishing Media:** Use media appropriate to surrounding fire conditions

**Extinguishing Media NOT To Be Used:** Not applicable

**Fire / Explosion Hazards:** None reported

**Hazardous Combustion Products:** May emit acrid smoke and fumes.

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## 6. ACCIDENTAL RELEASE MEASURES

**Spill Response Notice:**

Only persons properly qualified to respond to an emergency involving hazardous substances may respond to a spill according to federal regulations (OSHA 29 CFR 1910.120(a)(v)) and per your company's emergency response plan and guidelines/procedures. Outside of the US, only persons properly qualified according to state or local regulations should respond to a spill involving chemicals. See Section 13, Special Instructions for disposal assistance.

**Containment Technique:** Releases of this material may contaminate the environment.

**Clean-up Technique:** Dispose of material in government approved hazardous waste facility.

**Evacuation Procedure:** Evacuate as needed to perform spill clean-up.

**DOT Emergency Response Guide Number:** Not applicable

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## 7. HANDLING / STORAGE

**Handling:** Do not disassemble, apply excessive pressure or deform. Maintain general industrial hygiene practices when using this product.

**Storage:** Do not store in direct sunlight. Protect from: extreme temperatures

**Flammability Class:** Not applicable

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## 8. EXPOSURE CONTROLS / PROTECTIVE EQUIPMENT

**Engineering Controls:** Maintain general industrial hygiene practices when using this product.

**Personal Protective Equipment:**

**Eye Protection:** Not applicable

**Skin Protection:** Not applicable

**Inhalation Protection:** adequate ventilation

**Precautionary Measures:** Protect from: Wash thoroughly after handling. light

**TLV:** NONE REPORTED

**PEL:** NONE REPORTED

**For Occupational Exposure Limits (OEL) for ingredients, see section 3 - Composition/Information on Ingredients.:**

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## 9. PHYSICAL / CHEMICAL PROPERTIES

**Appearance:** Laminated strip of gold colored paper

**Physical State:** Solid

**Molecular Weight:** Not applicable

**Odor:** None

**Odor Threshold:** Not applicable

**pH:** Not applicable

**Metal Corrosivity:**

**Corrosivity Classification:** Not classified as corrosive to metals according to GHS criteria.

**Steel:** Not applicable

**Aluminum:** Not applicable

**Specific Gravity/ Relative Density (water = 1; air =1):** Not available

**Viscosity:** Not applicable

**Solubility:**

**Water:** Insoluble

**Acid:** Not available

**Other:** Not applicable

**Partition Coefficient (n-octanol / water):** Not applicable

**Coefficient of Water / Oil:** Not applicable

**Melting Point:** Not applicable

**Decomposition Temperature:** Not available

**Boiling Point:** Not applicable

**Vapor Pressure:** Not available

**Vapor Density (air = 1):** Not available

**Evaporation Rate (water = 1):** Not applicable

**Volatile Organic Compounds Content:** Not applicable

**Flammable Properties:** Can burn in fire, releasing toxic vapors.

**Flash Point:** Not available

**Method:** Not applicable

**Flammability Limits:**

**Lower Explosion Limits:** Not available

**Upper Explosion Limits:** Not available

**Autoignition Temperature:** Not available

**Explosive Properties:**

Not classified according to GHS criteria.

**Oxidizing Properties:**

Not classified according to GHS criteria.

**Reactivity Properties:**

Not classified as self-reactive, pyrophoric, self-heating or emitting flammable gases in contact with water according to GHS criteria.

**Gas under Pressure:**

Not applicable

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## 10. STABILITY / REACTIVITY

**Chemical Stability:** Stable when stored under proper conditions.

**Mechanical Impact:** None reported

**Static Discharge:** None reported.

**Reactivity / Incompatibility:** None reported

**Hazardous Decomposition:** Acrid or harmful gas during a fire

**Conditions to Avoid:** Excess moisture Excessive heat Exposure to direct sunlight.

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## 11. TOXICOLOGICAL INFORMATION

**Toxicokinetics, Metabolism and Distribution:** Item is an article. No health effects are anticipated in normal use.

**Toxicologically Synergistic Products:** None reported

**Acute Toxicity:** Based on classification principles, the classification criteria are not met.

**Specific Target Organ Toxicity - Single Exposure (STOT-SE):** Based on classification principles, the classification criteria are not met.

**Specific Target Organ Toxicity - Repeat Exposure (STOT-RE):** Based on classification principles, the classification criteria are not met.

**Skin Corrosion/Irritation:** Based on classification principles, the classification criteria are not met.

**Eye Damage:** Based on classification principles, the classification criteria are not met.

**Sensitization:** Based on classification principles, the classification criteria are not met.  
**Carcinogenic, Mutagenic or Reproductive Toxin Effects:** Contains Listed Carcinogen  
An ingredient of this mixture is: IARC Group 1: Recognized Carcinogen  
Hexavalent Chromium Compounds  
An ingredient of this mixture is: NTP Listed Group 1: Recognized Carcinogen  
Hexavalent Chromium Compounds  
An ingredient of this product is an OSHA listed carcinogen.  
Hexavalent chromium (Cr<sup>6</sup>) compounds  
**Symptoms/Effects:**  
**Ingestion (EC):** May be harmful if swallowed  
**Inhalation (EC):** No effects anticipated  
**Skin Absorption (EC):** No effects anticipated  
**Chronic Effects:** No effects anticipated  
**Medical Conditions Aggravated:** None reported

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## 12. ECOLOGICAL INFORMATION

**Product Ecological Information:** --  
Do not place in landfill. Recycle appropriately. Do not release into the environment.  
**Ingredient Ecological Information:** Potassium Dichromate: 96 hr Lepomis macrochirus LC50 = 0.131 mg/L; 48 hr Daphnia magna EC50 = 0.035 mg/L; Zinc Acetate: Fish 96hr LD50 = 0.88 mg/l, Algea 72hr EC50 = 1.7 mg/l, Algea 96hr EC50 = 4.2 mg/l

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## 13. DISPOSAL CONSIDERATIONS

**EPA Waste ID Number:** Not applicable  
**Special Instructions (Disposal):** Dispose of material in an E.P.A. approved hazardous waste facility.  
**Empty Containers:** Rinse three times with an appropriate solvent. Dispose of empty container as normal trash.  
**NOTICE (Disposal):** These disposal guidelines are based on federal regulations and may be superseded by more stringent state or local requirements. Please consult your local environmental regulators for more information. In Europe: Chemical and analysis solutions must be disposed of in compliance with the respective national regulations. Product packaging must be disposed of in compliance with the country-specific regulations or must be passed to a packaging return system.

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## 14. TRANSPORT INFORMATION

**D.O.T.:**  
**D.O.T. Proper Shipping Name:** Not Currently Regulated  
**DOT Hazard Class:** Not applicable  
**DOT Subsidiary Risk:** Not applicable  
**DOT ID Number:** Not applicable  
**DOT Packing Group:** Not applicable  
**T.D.G.:**  
**T.D.G. Proper Shipping Name:** Not Currently Regulated  
**T.D.G. Hazard Class:** Not applicable  
**T.D.G. Subsidiary Risk:** Not applicable  
**PIN:** Not applicable  
**Group:** Not applicable  
**I.C.A.O.:**  
**I.C.A.O. Proper Shipping Name:** Not Currently Regulated  
**ICAO Hazard Class:** Not applicable  
**ICAO Subsidiary Risk:** Not applicable  
**ICAO ID Number:** Not applicable  
**ICAO Packing Group:** Not applicable  
**I.M.O.:**  
**I.M.O. Proper Shipping Name:** Not Currently Regulated  
**I.M.O. Hazard Class:** Not applicable

**I.M.O. Subsidiary Risk:** Not applicable

**I.M.O. ID Number:** Not applicable

**I.M.O. Packing Group:** Not applicable

**Marine Pollutant:** Not applicable

**Additional Information:** ALSO NOTE: If the National Competent Authority declares this product an environmental hazard by Special Provision 909 (IMDG) and Special Provision A97 (IATA) the classification may be UN3077 or UN3082.

Exemption from classification due to volume or weight of shipped package may result in this item being shipped as not regulated. If the item IS part of a set or kit, the classification would change to the following: UN3316 Chemical Kit, Class 9, PG II or III. If the item is not regulated, the Chemical Kit classification does not apply. Limited quantity radioactive material that is exempt from radioactive labeling requirements under 49CFR section 173.421. May be declared as UN3077 or UN3082 environmental hazard by some Competent Authorities.

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## 15. REGULATORY INFORMATION

### **U.S. Federal Regulations:**

**O.S.H.A.:** This product is a component of an "Article" as defined in the Hazard Communication Standard (29 CFR 1910.1200)

**E.P.A.:**

**S.A.R.A. Title III Section 311/312 Categorization (40 CFR 370):** Not applicable

**S.A.R.A. Title III Section 313 (40 CFR 372):** This product contains a chemical(s) subject to the reporting requirements of Section 313 of Title III of SARA.

Potassium bichromate, Silver nitrate, Zinc acetate

**302 (EHS) TPQ (40 CFR 355):** Not applicable

**304 CERCLA RQ (40 CFR 302.4):** Zinc Acetate 1000 lbs. Potassium bichromate: 10 lbs. Silver nitrate: 1 lb.

**304 EHS RQ (40 CFR 355):** Not applicable

**Clean Water Act (40 CFR 116.4):** Silver Nitrate - RQ = 1 lb. (0.454 kg) Potassium bichromate - RQ = 10 lbs. (4.54 kgs.) Zinc acetate - RQ 1000 lbs.

**RCRA:** Not applicable

### **State Regulations:**

**California Prop. 65:** WARNING - This product contains a chemical known to the State of California to cause cancer.

WARNING - This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

**Identification of Prop. 65 Ingredient(s):** Chromium (hexavalent compounds)

**California Perchlorate Rule CCR Title 22 Chap 33:** Not applicable

**Trade Secret Registry:** Not applicable

### **National Inventories:**

**U.S. Inventory Status:** All ingredients in this product are listed on the TSCA 8(b) Inventory (40 CFR 710).

**TSCA CAS Number:** Not applicable

**Canadian Inventory Status:** All ingredients of this product are DSL Listed.

**EEC Inventory Status:** All ingredients used to make this product are listed on EINECS / ELINCS.

**Australian Inventory Status:** All ingredients of this product are AICS Listed.

**New Zealand (ERMA) Inventory Status:** LISTED: All components of this product are either listed, exempt or excluded.

**Korean (TCCL) Inventory Status:** LISTED: All components of this product are either listed, listed as the anhydrous compound or exempt.

**Japan (CHRIP) Inventory Status:** LISTED: All components of this product are either listed, exempt or excluded.

**China (PRC) Inventory Status:** LISTED: All components of this product are either listed or exempt.

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## 16. OTHER INFORMATION

**References:** 29 CFR 1900 - 1910 (Code of Federal Regulations - Labor). IARC Monographs on the Evaluation of the Carcinogenic Risks to Humans. World Health Organization (Volumes 1-42) Supplement 7. France: 1987. List of Dangerous Substances Classified in Annex I of the EEC Directive (67/548) - Classification, Packaging and Labeling of Dangerous Substances, Amended July 1992. NIOSH Registry of Toxic Effects of Chemical Substances, 1985-86. Cincinnati: U.S. Department of Health and Human Services, April, 1987. Sixth Annual Report on Carcinogens, 1991. U.S. Department of Health and Human Services. Rockville, MD: Technical Resources, Inc. 1991. Technical Judgment. TLV's Threshold Limit Values and Biological Exposure Indices for 1992-1993. American Conference of Governmental Industrial Hygienists, 1992. Vendor Information.

**Complete Text of H phrases referred to in Section 3:** Not applicable

**Revision Summary:** New SDS

**Date of MSDS Preparation:**

**Day:** 21

**Month:** January

**Year:** 2016

**MSDS Prepared:** MSDS prepared by Product Compliance Department 515 232-2533 (3350)

**CCOHS Evaluation Note:** This SDS has been prepared in accordance with the requirements of GHS (ST/SG/AC.10/36/Add.3). It is offered under the interim policy that was established by Health Canada permitting use of GHS-formatted safety data sheets in Canada prior to revision of CPR to GHS.

**WHMIS Evaluation Note:** Not applicable

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**Legend:**

NA - Not Applicable	w/w - weight/weight
ND - Not Determined	w/v - weight/volume
NV - Not Available	v/v - volume/volume

**USER RESPONSIBILITY:** Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

**THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.**

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