

## MATERIAL SAFETY DATA SHEET

MANUFACTURER: TAYLOR TECHNOLOGIES, INC  
 31 LOVETON CIRCLE  
 SPARKS, MD 21152  
 TELEPHONE: 410-472-4340

## 1. PRODUCT IDENTIFICATION

CATALOG NO.: R-0630  
 PRODUCT NAME: Chromate Indicator  
 CHEMICAL FAMILY: Inorganic salt solution

## 2. INGREDIENTS

| INGREDIENT          | CAS NO.   | %      | NATURE OF HAZARD     |
|---------------------|-----------|--------|----------------------|
| *Potassium chromate | 7789-00-6 | 5      | Carcinogen, oxidizer |
| Deionized water     | 7732-18-5 | to 100 | None                 |

\*This chemical is subject to the reporting requirements of SARA Title III Section 313 and 40 CFR 372.

Potassium chromate is not listed specifically in the NTP Annual Report on Carcinogens (latest edition) but would be included under "chromium and certain chromium compounds".

## 3. PHYSICAL/CHEMICAL CHARACTERISTICS

STATE: Liquid APPEARANCE: Clear, yellow ODOR: None  
 BOILING PT (F): 212-215 pH: 9.1 SPECIFIC GRAVITY: 1.04  
 VAPOR PRESSURE (mm Hg): 17 VAPOR DENSITY (AIR=1): .6  
 PERCENT VOLATILE BY VOLUME: 95 SOLUBILITY IN WATER: Soluble

## 4. FIRE, EXPLOSION HAZARD AND REACTIVITY DATA

FLASH PT: NA METHOD: NA  
 FLAMMABLE LIMITS: LEL: NA UEL: NA  
 EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, water spray or foam  
 SPECIAL PROCEDURES: Wear self-contained (positive pressure if available) breathing apparatus and full-protective clothing  
 FIRE/EXPLOSION HAZARDS AND HAZARDOUS DECOMPOSITION PRODUCTS: Contact with combustible materials may increase fire intensity. May emit toxic fumes.  
 NFPA CODE: Health: 3 Flammability: 0 Reactivity: 3 Special: OX  
 CONDITIONS TO AVOID: Extreme heat, temperatures. Contact with strong reducing agents, combustible materials.

## 5. HEALTH HAZARD DATA

INGREDIENT: Potassium chromate  
 TOXICITY: LDLo(orl-hmn): 50 mg/kg  
 PEL: 5 ug/m3 (as Cr(VI))  
 STEL: NE

TLV: 52 ug/m3 (as Cr(VI))

**5. HEALTH HAZARD DATA - continued**

ROUTE(S) OF ENTRY: Inhalation    Ingestion X    Skin X

TARGET ORGAN(S): Eyes, skin, kidneys

CARCINOGENICITY: NTP Yes    IARC Yes    OSHA Yes

HEALTH HAZARDS AND SYMPTOMS OF EXPOSURE:

EYES: Irritant. Contact may cause conjunctivitis.

SKIN: Irritant. Contact may cause dermatitis.

INGESTION: May cause severe gastrointestinal irritation, circulatory collapse, coma, toxic nephritis.

INHALATION: NA

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Eye and skin conditions

**6. PRECAUTIONARY MEASURES**

PROTECTIVE EQUIPMENT: General purpose gloves, safety glasses, lab coat

HANDLING: Avoid contact with eyes, skin, and clothing. Avoid breathing chemical. Wash thoroughly after handling.

STORAGE: Cool, dry area. Avoid direct sunlight.

**7. EMERGENCY AND FIRST AID PROCEDURES**

EYE AND SKIN CONTACT: Immediately flush eyes with water for 20 minutes or until chemical is removed. Call physician. Wash skin thoroughly with soap and water.

INGESTION: Give large amounts of water. Call physician. Induce vomiting under direction of physician. DO NOT induce vomiting or give anything by mouth to a person who is unconscious, rapidly losing consciousness, or convulsing.

INHALATION: NA

**8. SPILL AND DISPOSAL PROCEDURES**

SPILL OR RELEASE: Absorb with vermiculite or other inert material. Containerize for later disposal.

DISPOSAL: To comply with all local, state, and federal regulations.

NA = Not applicable

ND = Not determined

NE = Not established

This Material Safety Data Sheet has been prepared in accordance with 29 CFR Part 1910.1200 and contains information believed to be accurate and complete at the date of preparation. However, no warranty is expressed or implied. Advice given under "Spill and Disposal Procedures" assumes compliance with federal, state, and local regulations regarding the disposal of hazardous waste.

DATE PREPARED: January 2010