Safety Data Sheet

SECTION 1: Identification

Product Name	Potassium Dichromate, ACS
Product Code	C2282500
Other Identifiers	Potassium bichromate
Recommended Uses	General Laboratory Reagent/Chemical.
Uses Advised Against	Not intended for drug, food or household use.

Address	3825 Parrott Drive Charlotte, NC 28214 USA
Email	orders@tcpanalytical.com
Fax	1-888-843-4384
Telephone	1-800-732-8484
Website	www.reagents.com

24-Hour Emergency Telephone

CHEMTREC (USA) 800-424-9300
CHEMTREC (International) 1 + 730-527-3887

SECTION 2: Hazard(s) Identification

Acute toxicity Dermal (Category 4)
Acute toxicity Inhalation (Category 2)
Acute toxicity Oral (Category 3)
Hazardous to the aquatic environment, short-term (Category Acute 1)
Hazardous to the aquatic environment, long-term (Category Chronic 1)
Carcinogenicity (Category 1)
Serious eye damage/eye irritation (Category 1)
Germ cell mutagenicity (Category 1)
Oxidizing solids (Category 2)
Respiratory sensitizer (Category 1)
Skin corrosion/irritation (Category 1)
Skin sensitizer (Category 1)
Specific target organ toxicity, repeated exposure (Category 1)

Hazards not otherwise classified or covered by GHS

None identified.

Signal Word

DANGER

Hazard Statements

Toxic if swallowed. Harmful in contact with skin. Fatal if inhaled. Causes severe skin burns and serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause genetic defects. May cause cancer. May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. May intensify fire; oxidizer. Very toxic to aquatic life with long lasting effects.

Precautionary Statements

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. - No smoking. Keep away from clothing and other combustible materials. Keep container tightly closed. Do not breathe mist, vapors or spray. Wash areas of contact/exposure thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves and clothing and eye protection. Wear respiratory protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing and wash it before reuse. Rinse skin/hair with water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. IF exposed or concerned: Get medical attention. Call a POISON CENTER or doctor if you feel unwell. IF skin irritation or rash occurs: Get medical attention. IF experiencing respiratory symptoms: Call a POISON CENTER or doctor. In case of fire: Use dry chemical, foam or carbon dioxide (CO_2) for extinction. Collect spillage. Store in a well-ventilated place. Store locked up. Dispose of contents/container in accordance with local, state, federal and international regulations.

SECTION 3: Composition / Information on Ingredients

Component Name	Component Number CAS	Component Number EC	Component Weight %
Potassium Dichromate	7778-50-9	231-906-6	100

SECTION 4: First-Aid Measures

General Advice	Show this SDS to attending physician if medical treatment is needed.
Skin Contact	Immediately flush affected area with plenty of water while removing contaminated clothing . Seek medical attention if you are concerned or feel unwell. Sensitizer
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. Seek immediate medical attention.
Inhalation	Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or physician. Seek medical attention if there are any signs of an allergic reaction (swelling, redness, hives, difficulty breathing or other allergy or asthma symptoms).
Ingestion	Immediately call a poison center or physician. Induce vomiting only if advised by medical personnel to do so. Keep victim at rest in a comfortable position for breathing.
Symptoms/effects	The most important known symptoms/effects are described in Section 2 of this Safety Data Sheet.
Treatment	Treat symptomatically.

SECTION 5: Fire-Fighting Measures

Extinguishing Media	Substance is not flammable, use agent most appropriate to extinguish surrounding fire (water, carbon dioxide, dry chemical, sand/earth, foam).
Specific Hazards	Thermal decomposition may produce toxic or irritating fumes.
Actions for Firefighters	Wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

SECTION 6: Accidental Release Measures

Precautions and Procedures	Ensure adequate ventilation. Use personal protective equipment as required. Evacuate unprotected personnel to safe areas. Keep people away from and upwind of spill/leak.
Environmental Precautions	Take all precautions to avoid release to the environment.
Containment and Clean Up	Remove all sources of ignition. Have fire extinguishing agent available. Use only non-sparking tools and explosion-proof equipment. Wear respiratory protection, gloves, eye protection and protective clothing. Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable lidded container for disposal.

Section 7: Handling and Storage

Handling	Follow good hygiene procedures when handling chemical materials. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use personal items when handling this substance. Wear respiratory protection, gloves, protective clothing and eye protection when handling this substance.
Storage	Keep containers tightly closed in a cool, dry and well-ventilated place. Protect from freezing and physical damage. Store separately from incompatible materials. Store locked up.

Section 8: Exposure Controls / Personal Protection

Engineering Controls	As part of safe chemical handling, emergency eye wash fountains and safety showers should be available in handling areas. Provide sufficient ventilation measures to keep the airborne concentration below the applicable workplace exposure limits.			
Exposure Limits	Chromium (VI) compound	PEL-TWA	5 µg/m³	US-OSHA
Exposure Limits	Chromium (VI) compound	REL-TWA	0.2 µg/m³	US-NIOSH
Exposure Limits	Chromium (VI) compound	TLV-TWA	0.2 µg/m³	US-ACGIH
Exposure Limits	Chromium (VI) compound	TLV-STEL	0.5 µg/m³	US-ACGIH
Eye Protection	Wear safety glasses with side shields or safety goggles. Wear face shield if there is risk of splashes.			
Skin Protection	Wear chemical resistant gloves and protective clothing.			
Respiratory Protection	Wear respiratory protection.			

Section 9: Physical and Chemical Properties

Physical State	Solid
Appearance/Color	Orange-red
Odor	Odorless
Odor Threshold	Not applicable.
Melting/Freezing Point	398°C
Boiling Point/Range	Decomposes
Flammability	Not flammable
Flammable/Explosive Limits	Not applicable
Flash Point	Not applicable
Auto-Ignition Temperature	Not applicable
Decomposition Temperature	500°C
pH	Data not available
Viscosity	Not applicable

Solubility (in water)	115 - 130 g/L at 20°C
Partition Coefficient (n-octanol/water)	Data not available
Relative Density	2.676
Vapor Pressure	< 1 Pa at 25°C
Vapor Density	Not applicable
Evaporation Rate	Not applicable.
Particle Characteristics	Data not available

Section 10: Stability and Reactivity

Reactivity	Contact with hydrazine causes explosion.
Chemical Stability	Stable under normal conditions of handling and storage.
Hazardous Reactions	Based on available data, no reaction hazards have been identified that would occur during normal handling and storage.
Conditions to Avoid	Avoid contact with incompatible materials.
Incompatible Materials	Organic materials, powdered metals, strong reducing agents, hydrazine.
Hazardous Decomposition	Thermal decomposition can produce carbon oxides, potassium oxide, chromium oxides.

Section 11: Toxicological Information

Acute Toxicity - Oral	LD50 (rat) 96 mg/kg
Acute Toxicity - Dermal	LD50 (rabbit) 1100 mg/kg
Acute Toxicity - Inhalation	No empirical data could be found. Toxicity level is determined by Chromium (VI) studies.
Skin Corrosion/Irritation	Harmful in contact with skin. Causes severe skin damage.
Eye Damage/Irritation	This material can cause serious eye damage.
Respiratory Sensitization	May cause respiratory sensitization, resulting in allergy or asthma symptoms or breathing difficulties.
Skin Sensitization	May cause skin sensitization, resulting in allergy or asthma symptoms or breathing difficulties.
Germ Cell Mutagenicity	Based on available data, this substance is known or presumed to cause germ cell mutagenicity.
Carcinogenicity	This substance contains a chemical classified as carcinogenic to humans (IARC: Group 1; NTP: Known to be Human Carcinogen; OSHA: subpart Z).
Reproductive Toxicity	Studies indicate that this material may damage fertility or the unborn child.
STOT Single Exposure	None known.
STOT Repeated Exposure	Prolonged inhalation may cause nasal ulceration. Ingestion or inhalation may lead to kidney damage.
Aspiration Hazard	This substance is not considered to be an aspiration hazard.
Other Information	No additional information available.

Safety Data Sheet

Section 12: Ecological Information

Toxicity Values	LC50 (Oncorhynchus mykiss) 51.5 mg/L/48H
Persistence/Biodegradability	The methods for determining biological degradability do not apply to inorganic substances.
Bioaccumlation Potential	BCF is 2.8 (based on chromium) indicating that bioconcentration in aquatic organisms is low.
Mobility in Soil	Data is not available for this substance that does not meet the criteria of ecotoxin.
Other Adverse Effects	None known.

Section 13: Disposal Considerations

Discharge, treatment, or disposal may be subject to national, state, regional or local laws. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Since emptied containers retain product residue, follow label warnings even after container is emptied. Dispose in accordance with national, state, regional and local regulations.

Section 14: Transport Information

UN Number	UN3086
Proper Shipping Name, Hazard Class	TOXIC SOLIDS, OXIDIZING, N.O.S., (POTASSIUM DICHROMATE), 6.1 (5.1)
Packing Group	II
Marine Pollutant	Not classified as a marine pollutant.

Section 15: Regulatory Information

USA TSCA	On or in compliance with the inventory.
USA SARA 302/304	Potassium bichromate, TPQ 4540 kg (10,000 lbs) RQ 4.54 kg (10 lbs)
USA SARA 311/312	Potassium bichromate
USA SARA 313 (TRI)	Potassium bichromate
Canada DSL/NDSL	On or in compliance with DSL.
California Proposition 65	This product contains a chemical on the list.

Section 16: Other Information

Acronyms

ACGIH	American Conference of Governmental Industrial Hygienists (USA)
ATE	Acute Toxicity Estimate (calculated toxicity value)
BCF	Bioconcentration Factor
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act (USA)
DOT	Department of Transportation (USA)
DSL	Domestic Substances List (Canada)
EHS	Extremely Hazardous Substance
EPA	Environmental Protection Agency (United States)
GHS	Globally Harmonized System
IARC	International Agency for Research on Cancer
IDLH	Immediately Dangerous to Life and Health
NTP	National Toxicology Program (USA)
OSHA	Occupational Safety and Health Administration (USA)
PEL	Permissible Exposure Limit
PNOR	Particulates Not Otherwise Classified
PPE	Personal Protective Equipment
ppb	Parts per billion
ppm	Parts per million
RQ	Reportable Quantity
SARA	Superfund Amendments and Reauthorization Act (USA)
TLV	Threshold Limit Value
TPQ	Threshold Planning Quantity
TRI	Toxic Release Inventory (USA)
TSCA	Toxic Substances Control Act (USA)
TWA	Time Weighted Average
UN	United Nations

Revision Date 06/21/23 Issue Date: 6/21/2023

The information contained herein is believed to be accurate and represents the best data currently available to Reagents but does not purport to be all inclusive. This document is intended only as a guide to the appropriate precautionary handling of the material by properly trained personnel using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. Reagents makes no representations or warranties, either express or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, Reagents will not be responsible for damages resulting from use of or reliance upon this information.