

SAFETY DATA SHEET

1. SUBSTANCE AND SOURCE IDENTIFICATION

Product Identifier

SRM Number: 3279

SRM Name: Chromium Dietary Supplement **Other Means of Identification:** Not applicable.

Recommended Use of This Material and Restrictions of Use

This Standard Reference Material (SRM) is intended for use in the evaluation of chemical methods of analysis for chromium and vanadium to support chemical exposure and safety compliance measurements associated with testing oral dietary supplements. A unit of SRM 3279 consists of five pouches, each containing six grams of powdered material, individually sealed in nitrogen-flushed aluminized bags.

Company Information

National Institute of Standards and Technology Standard Reference Materials Program 100 Bureau Drive, Stop 2300 Gaithersburg, Maryland 20899-2300

Telephone: 301-975-2200 Emergency Telephone ChemTrec: FAX: 301-948-3730 1-800-424-9300 (North America) E-mail: SRMMSDS@nist.gov +1-703-527-3887 (International) Website: https://www.nist.gov/srm

2. HAZARDS IDENTIFICATION

Classification

Physical Hazard: Not classified. **Health Hazard:** Not classified.

Label Elements

Symbol: No symbol\No pictogram. **Signal Word:** No signal word.

Hazard Statement(s): No applicable hazard statements.

Precautionary Statement(s): No applicable precautionary statements.

Hazards Not Otherwise Classified: None.

Ingredients(s) with Unknown Acute Toxicity: None.

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3. COMPOSITION AND INFORMATION ON HAZARDOUS INGREDIENTS

Substance: Chromium dietary supplement powder

Other Designations: Not available.

Components are listed in compliance with OSHA's 29 CFR 1910.1200. For actual values, see the Certificate of Analysis.

Hazardous Component(s)	CAS Number	EC Number (EINECS)	Nominal Mass Concentration (%)
chromium as either: chromium picolinate	16065-83-1 14639-25-9		0.13
chromium polynicotinate	64452-96-6		
chromium (VI)			0.000016
Non-Hazardous Component(s)			
Inactive ingredients	not available	not available	100

4. FIRST AID MEASURES

Description of First Aid Measures

Inhalation: If adverse effects occur, remove to well-ventilated (uncontaminated) area. If breathing is difficult, qualified personnel may administer oxygen. If not breathing, qualified personnel should give artificial respiration. Seek immediate medical attention.

Skin Contact: Rinse affected skin thoroughly with soap or mild detergent and water for at least 15 minutes. If skin irritation persists, seek medical aid and bring the container or label.

Eye Contact: Immediately flush eyes, including under the eyelids, with copious amounts of water for at least 15 minutes. Seek immediate medical attention.

Ingestion: If a large amount is swallowed, seek medical attention if concerned.

Most Important Symptoms/Effects, Acute and Delayed: No information available.

Indication of any immediate medical attention and special treatment needed, if necessary: If any of the above symptoms are present, seek immediate medical attention.

5. FIRE FIGHTING MEASURES

Fire and Explosion Hazards: Slight fire hazard; sufficient concentrations of dust/air mixtures might ignite or explode if in the presence of an ignition source.

Extinguishing Media

Suitable: Regular dry chemical, carbon dioxide, water, or regular foam.

Unsuitable: None listed.

Specific Hazards Arising from the Chemical: Not applicable.

Special Protective Equipment and Precautions for Fire-Fighters: Move container from fire area if it can be done without personal risk. Avoid inhalation of material or combustion by-products. Wear full protective clothing and NIOSH-approved self-contained breathing apparatus (SCBA).

NFPA Ratings (0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe)

Health = 0 Fire = 0 Reactivity = 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: Use suitable protective equipment; see Section 8, "Exposure Controls and Personal Protection".

Methods and Materials for Containment and Clean up: Avoid generating and accumulating dust. Collect in appropriate container for disposal.

7. HANDLING AND STORAGE

Safe Handling Precautions: See Section 8, "Exposure Controls and Personal Protection".

Storage and Incompatible Materials: Keep separated from incompatible substances and ignition sources.

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8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits: No occupational exposure limits have been established for chromium dietary supplement. This material is a particulate matter and adequate inhalation/respiratory protection should be used to minimize exposure. The exposure limits for Particulates Not Otherwise Regulated (PNOR) are applicable.

OSHA (PEL): 15 mg/m³ (TWA, total particulates) OSHA (PEL): 5 mg/m³ (TWA, respirable particulates) NIOSH (REL): 10 mg/m³ (TWA, total particulates) NIOSH (REL): 5 mg/m³ (TWA, respirable particulates)

Engineering Controls: Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

Personal Protection Measures: In accordance with OSHA 29 CFR 1910.132, subpart I, wear appropriate Personal Protective Equipment (PPE) to minimize exposure to this material.

Respiratory Protection: If workplace conditions warrant a respirator, a respiratory protection program that meets OSHA 29CFR 1910.134 must be followed. Refer to NIOSH 42 CFR 84 for applicable certified respirators.

Eye Protection: Splash resistant safety goggles and emergency eyewash are recommended.

Skin and Body Protection: Chemical resistant clothing and gloves are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Properties			
Molar Mass (g/mol)	not applicable		
Molecular Formula	not applicable		
Appearance (physical state, color, etc.)	powder		
Odor	not available		
Odor threshold	not available		
pH	not available		
Evaporation rate	not available		
Melting point/freezing point	not available		
Relative Density	not available		
Density	not available		
Vapor Pressure	not available		
Vapor Density (air = 1)	not available		
Viscosity	not available		
Solubilities	soluble in water		
Partition coefficient (n-octanol/water)	not available		
Thermal Stability Properties			
Autoignition Temperature	not available		
Thermal Decomposition	not available		
Initial boiling point and boiling range	not available		
Explosive Limits, LEL (Volume %)	not available		
Explosive Limits, UEL (Volume %)	not available		
Flash Point	not available		
Flammability (solid, gas)	not available		

10. STABILITY AND REACTIVITY

Reactivity: Stable at normal temperatures and pressure.						
Stability: X Stable	Unstable					
Possible Hazardous Reactions: Not applicable.						
Conditions to Avoid: Avoid generating dust.						
Incompatible Materials: None listed.						
Hazardous Decomposition: None listed.						
Hazardous Polymerization: Will	l Occur X Will Not Occur					

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11. TOXICOLOGICAL INFORMATION
Route of Exposure: X Inhalation X Skin X Ingestion
Symptoms Related to the Physical, Chemical and Toxicological Characteristics: Eye or skin mechanizritation.
Potential Health Effects (Acute, Chronic, and Delayed)
Inhalation: May cause irritation.
Skin Contact: May cause irritation.
Eye Contact: May cause irritation.
Ingestion: Large quantities may cause gastrointestinal distress; no other adverse effects identified.
Numerical Measures of Toxicity Acute toxicity: No data available.
Skin corrosion/irritation: No data available.
Serious eye damage/eye irritation: No data available.
Respiratory sensitization: No data available.
Skin sensitization: Chromium dietary supplement may contain trace amounts of hexavalent chromium who may cause allergic skin reactions.
Germ Cell Mutagenicity: No data available.
Carcinogenicity: Not classified. Listed as a Carcinogen/Potential Carcinogen Yes X No
Chromium (III) compounds are listed by IARC as Group 3, and is not listed by NTP or OSHA as a carcinogen/potential carcinogen.
Reproductive Toxicity: No data available.
Specific target organ toxicity, single exposure: No data available.
Specific target organ toxicity, repeated exposure: No data available.
Aspiration hazard: Not applicable.
12. ECOLOGICAL INFORMATION
Ecotoxicity Data: No data available. Persistence and Degradability: No data available. Bioaccumulative Potential: No data available. Mobility in Soil: No data available. Other Adverse effects: No data available.
13. DISPOSAL CONSIDERATIONS
Waste Disposal: Dispose in accordance with all applicable federal, state, and local regulations.
14. Transportation Information
U.S. DOT and IATA: This material is not regulated by DOT or IATA.
15. REGULATORY INFORMATION
U.S. Regulations CERCLA Sections 102a/103 (40 CFR 302.4): Not regulated. SARA Title III Section 302 (40 CFR 355.30): Not regulated.

OSHA Process Safety (29 CFR 1910.119): Not regulated.

SARA Title III Section 304 (40 CFR 355.40): Not regulated. SARA Title III Section 313 (40 CFR 372.65): Not regulated.

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SARA Title III Sections 311/312 Hazardous Categories (40 CFR 370.21)

ACUTE HEALTH: No CHRONIC HEALTH: No FIRE: No REACTIVE: No PRESSURE: No

State Regulations: Not listed.U.S. TSCA Inventory: Not listed.

TSCA 12(b), Export Notification: Not listed.

Canadian Regulations: WHMIS Information: Not provided for this material.

16. OTHER INFORMATION

Issue Date: 24 September 2019

Sources: 29 CFR Occupational Health and Safety Office (OSHA) 1910.1000, Limits for Air Contaminants,

Table Z-1; available at

http://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=STANDARDS&p_id=9992

(accessed Sep 2019).

Center for Disease Control (CDC) NIOSH Pocket Guide to Chemical Hazards, Particulates not otherwise

regulated; available at http://www.cdc.gov/niosh/npg/npgd0480.html (accessed Sep 2019).

Key of Acronyms:

ACGIH CAS	American Conference of Governmental Industrial Hygienists Chemical Abstracts Service	NTP OSHA	National Toxicology Program Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
CFR	Code of Federal Regulations	RCRA	Resource Conservation and Recovery Act
DOT	Department of Transportation	REL	Recommended Exposure Limit
EINECS	European Inventory of Existing Commercial Chemical Substances	RQ	Reportable Quantity
EPCRA	Emergency Planning and Community Right-to-Know Act	RTECS	Registry of Toxic Effects of Chemical Substances
IARC	International Agency for Research on Cancer	SARA	Superfund Amendments and Reauthorization Act
IATA	International Air Transport Association	SCBA	Self-Contained Breathing Apparatus
IDLH	Immediately Dangerous to Life and Health	SRM	Standard Reference Material
LC50	Lethal Concentration	STEL	Short Term Exposure Limit
LD50	Median Lethal Dose or Lethal Dose, 50 %	TLV	Threshold Limit Value
LEL	Lower Explosive Limit	TPQ	Threshold Planning Quantity
MSDS	Material Safety Data Sheet	TSCA	Toxic Substances Control Act
NFPA	National Fire Protection Association	TWA	Time Weighted Average
NIOSH	National Institute for Occupational Safety and Health	UEL	Upper Explosive Limit
NIST	National Institute of Standards and Technology	WHMIS	Workplace Hazardous Materials Information System
n.o.s.	Not Otherwise Specified		

Disclaimer: Physical and chemical data contained in this SDS are provided only for use in assessing the hazardous nature of the material. The SDS was prepared carefully, using current references; however, NIST does not certify the data in the SDS. The values for this material are given in the NIST Certificate of Analysis.

Users of this SRM should ensure that the SDS in their possession is current. This can be accomplished by contacting the SRM Program: telephone (301) 975-2200; fax (301) 948-3730; e-mail srmmsds@nist.gov; or via the Internet at https://www.nist.gov/srm.

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