

Printing date 05/27/2022

Reviewed on 05/27/2022

Page 1/8

Product identifier	
Trade name: <u>Chromium +6 (10μg/mL in H2O)</u>	
Article number: 10-12-7	
Details of the supplier of the safety data sheet	
Manufacturer/Supplier:	
High-Purity Standards	
7221 Investment Drive, North Charleston, SC 29418 United States	
<i>Telephone:</i> +1-843-767-7900	
Fax: +1-843-767-7906	
highpuritystandards.com	
Email: info@highpuritystandards.com	
Information department: Product safety department	
Emergency telephone number:	
INFOTRAC	
Emergency telephone numbers1-800-535-5053	
Other emergency telephone numbers 1-352-323-3500	

• *Classification of the substance or mixture The product is not classified, according to the Globally Harmonized System (GHS).*

· Label elements

- · GHS label elements Void
- · Hazard pictograms Void
- Signal word Void
- · Hazard statements Void
- · Classification system:
- NFPA ratings (scale 0 4)



· HMIS-ratings (scale 0 - 4)

 HEALTH
 Image: O
 Health = 0

 FIRE
 Image: O
 Fire = 0

 REACTIVITY
 Reactivity = 0

- · Other hazards
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.

(Contd. on page 2)



Printing date 05/27/2022

Reviewed on 05/27/2022

Trade name: Chromium +6 (10μg/mL in H2O)

(Contd. of page 1)

99.999%

0.001%

Page 2/8

3 Composition/information on ingredients

· Chemical characterization: Mixtures

- Description: Mixture of the substances listed below with nonhazardous additions.
- · Dangerous components: Void
- · Chemical identification of the substance/preparation
- 7732-18-5 water, distilled, conductivity or of similar purity

7440-47-3 chromium

4 First-aid measures

· Description of first aid measures

- General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Not required.

• Environmental precautions: No special measures required.

• *Methods and material for containment and cleaning up:* Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

 $(Contd. \ on \ page \ 3)$

05

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Printing date 05/27/2022

Reviewed on 05/27/2022

Page 3/8

Trade name: Chromium +6 (10µg/mL in H2O)

Protective Action Criteria for Chemicals	(Contd. of page 2
· PAC-1:	
7440-47-3 chromium	1.5 mg/m ³
· PAC-2:	
7440-47-3 chromium	17 mg/m³
• PAC-3:	
7440-47-3 chromium	99 mg/m ³

7 Handling and storage

- · Handling:
- · Precautions for safe handling No special measures required.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.
- *Specific end use(s) No further relevant information available.*

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- Components with limit values that require monitoring at the workplace:
- The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:
- The usual precautionary measures for handling chemicals should be followed.
- · Breathing equipment: Not required.
- Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation · *Material of gloves*

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

(Contd. on page 4)

US



Printing date 05/27/2022

Reviewed on 05/27/2022

(Contd. of page 3)

US

Trade name: Chromium +6 (10µg/mL in H2O)

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection: Goggles recommended during refilling.

Information on basic physical and c	hemical properties	
General Information		
Appearance:	T · · · 1	
Form:	Liquid	
Color: Odor:	According to product specification Characteristic	
Odor: Odor threshold:	Not determined.	
pH-value:	Not determined.	
	noi determinea.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
Density at 20 °C (68 °F):	1.00006 g/cm ³ (8.3455 lbs/gal)	
Bulk density:	1,000 kg/m ³	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
Partition coefficient (n-octanol/wate	r): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	

Page 4/8



Printing date 05/27/2022

Reviewed on 05/27/2022

Trade name: Chromium +6 (10μg/mL in H2O)

		(Contd. of page 4)
Solvent content: Water:	100.0 %	
VOC content:	0.00 % 0.0 g/l / 0.00 lb/gal	
Solids content:	0.0 %	
• Other information	No further relevant information available.	

10 Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

- Acute toxicity:
- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

7440-47-3 chromium

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

(Contd. on page 6)

3

US

Page 5/8



Printing date 05/27/2022

Reviewed on 05/27/2022

Trade name: Chromium +6 (10µg/mL in H2O)

(Contd. of page 5)

Page 6/8

12 Ecological information

· Toxicity

- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes: Not hazardous for water.
- · Results of PBT and vPvB assessment
- *PBT:* Not applicable.
- **vPvB:** Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- Recommendation: Smaller quantities can be disposed of with household waste.
- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

UN-Number		
DOT, ADR, IMDG, IATA	not regulated	
UN proper shipping name DOT, ADR, IMDG, IATA	not regulated	
Transport hazard class(es)		
DOT, ADR, ADN, IMDG, IATA		
Class	not regulated	
Packing group		
DOT, ADR, IMDG, IATA	not regulated	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex	II of	
MARPOL73/78 and the IBC Code	Not applicable.	

US –



Printing date 05/27/2022

Reviewed on 05/27/2022

(Contd. of page 6)

Trade name: Chromium +6 (10µg/mL in H2O)

· UN "Model Regulation":

not regulated

15 Regulatory information

Section 355 (extr	emely hazardous substances):	
None of the ingre	• /	
Section 313 (Spe	ific toxic chemical listings):	
7440-47-3 chron	ium	
TSCA (Toxic Sul	stances Control Act):	
All components h	ive the value ACTIVE.	
Hazardous Air P	llutants	
None of the ingre	lients is listed.	
Proposition 65		
Chemicals know	to cause cancer:	
None of the ingre	lients is listed.	
Chemicals know	to cause reproductive toxicity for females:	
None of the ingre	lients is listed.	
Chemicals know	to cause reproductive toxicity for males:	
None of the ingre	lients is listed.	
Chemicals know	to cause developmental toxicity:	
None of the ingre	lients is listed.	
Carcinogenic cat	zories	
•	ntal Protection Agency)	
7440-47-3 chron	ium	
TLV (Threshold	imit Value)	
7440-47-3 chron	ium	1
NIOSH-Ca (Nati	onal Institute for Occupational Safety and Health)	
None of the ingre		
GHS label eleme	nts Void	

US

Page 7/8



Printing date 05/27/2022

Reviewed on 05/27/2022

Trade name: Chromium +6 (10µg/mL in H2O)

(Contd. of page 7)

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

• Department issuing SDS: Environment protection department.

· Contact:

High-Purity Standards Tel: 843-767-7900 Fax: 843-767-7906 · Date of preparation / last revision 05/27/2022 / -• Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit