1 Identification

- **Product identifier**
- **Trade name:** OMS standard
- **Article number:** CROMS
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
  High-Purity Standards
  7221 Investment Drive, North Charleston, SC 29418 United States
  Telephone: +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 numbers 1-800-535-5053
  Other emergency telephone numbers 1-352-323-3500

2 Hazard(s) identification

- **Classification of the substance or mixture**
  - GHS08 Health hazard
    Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
- **Label elements**
  - **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
  - **Hazard pictograms**
    - GHS08

- **Signal word** Danger
- **Hazard-determining components of labeling:**
  - White mineral oil, petroleum
- **Hazard statements**
  - H304 May be fatal if swallowed and enters airways.
- **Precautionary statements**
  - If swallowed: Immediately call a poison center/doctor.
  - Do NOT induce vomiting.
  - Store locked up.
  - Dispose of contents/container in accordance with local/regional/national/international regulations.

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Trade name: OMS standard

· Classification system:
  · NFPA ratings (scale 0 - 4)

  Health = 0
  Fire = 1
  Reactivity = 0

· HMIS-ratings (scale 0 - 4)

  Health = 0
  Fire = 1
  Reactivity = 0

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

3 Composition/information on ingredients

· Chemical characterization: Mixtures
  · Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

  8042-47-5 White mineral oil, petroleum 99.9%

· Chemical identification of the substance/preparation

  7440-47-3 chromium 0.1%

4 First-aid measures

· Description of first aid measures
  · 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.
6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions**: Do not allow to enter sewers/surface or ground water.
- **Methods and material for containment and cleaning up**: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.
- **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.
- **Protective Action Criteria for Chemicals**
  - **PAC-1**: 7440-47-3 chromium 1.5 mg/m³
  - **PAC-2**: 7440-47-3 chromium 17 mg/m³
  - **PAC-3**: 7440-47-3 chromium 99 mg/m³

7 Handling and storage

- **Handling**: No special precautions are necessary if used correctly.
- **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**: Keep receptacle tightly sealed.
- **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:
- Keep away from foodstuffs, beverages and feed.
- Wash hands before breaks and at the end of work.

#### 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.

#### 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.

### Physical and chemical properties

#### Information on basic physical and chemical properties

#### General Information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td>Liquid</td>
</tr>
<tr>
<td><strong>Form</strong></td>
<td>Liquid</td>
</tr>
<tr>
<td><strong>Color</strong></td>
<td>Green</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>Characteristic</td>
</tr>
<tr>
<td><strong>Odor threshold</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>pH-value</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Melting point/Melting range</strong></td>
<td>Undetermined</td>
</tr>
<tr>
<td><strong>Boiling point/Boiling range</strong></td>
<td>Undetermined</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>&gt;112 °C (&gt;233.6 °F)</td>
</tr>
<tr>
<td><strong>Flammability (solid, gaseous)</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Decomposition temperature</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Auto igniting</strong></td>
<td>Product is not selfigniting.</td>
</tr>
<tr>
<td><strong>Danger of explosion</strong></td>
<td>Product does not present an explosion hazard.</td>
</tr>
<tr>
<td><strong>Explosion limits</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Lower</strong></td>
<td>Not determined</td>
</tr>
</tbody>
</table>

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Upper:
Not determined.

Vapor pressure:
Not determined.

Density:
Not determined.

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/water):
Not determined.

Viscosity:
Dynamic:
Not determined.

Kinematic:
Not determined.

Solvent content:
VOC content:
0.00 %
0.0 g/l / 0.00 lb/gal

Solids content:
0.1 %

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 shows the following dangers according to internally approved calculation methods for preparations:

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Safety Data Sheet
acc. to OSHA HCS

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- Carcinogenic categories
  - IARC (International Agency for Research on Cancer)
    - 7440-47-3 chromium
      - 3
  - NTP (National Toxicology Program)
    - None of the ingredients is listed.
  - OSHA-Ca (Occupational Safety & Health Administration)
    - None of the ingredients is listed.

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:
    - Water hazard class 1 (Self-assessment): slightly hazardous for water
      Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
    - 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:
    Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packagings:
  - Recommendation: Disposal must be made according to official regulations.

14 Transport information

- UN-Number
  - DOT, ADR, IMDG, IATA: not regulated
- UN proper shipping name
  - DOT, ADR, IMDG, IATA: not regulated

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**Trade name:** OMS standard

<table>
<thead>
<tr>
<th>50.0.3 · Transport hazard class(es)</th>
<th>DOT, ADR, ADN, IMDG, IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class</td>
<td>not regulated</td>
</tr>
</tbody>
</table>

| 50.0.3 · Packing group               | DOT, ADR, IMDG, IATA      |
|                                      | not regulated             |

| 50.0.3 · Environmental hazards:     | Not applicable.           |
| 50.0.3 · Special precautions for user | Not applicable.           |

| 50.0.3 · Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | Not applicable.           |

| 50.0.3 · UN "Model Regulation": | not regulated             |

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**15 Regulatory information**

| 15.1 · Safety, health and environmental regulations/legislation specific for the substance or mixture |
| 15.1 · Sara                                                                                     |
| 15.1 · Section 355 (extremely hazardous substances):                                            |
| None of the ingredients is listed.                                                               |

| 15.1 · Section 313 (Specific toxic chemical listings):                                            |
| 7440-47-3 chromium                                                                                |

| 15.1 · TSCA (Toxic Substances Control Act):                                                      |
| All components have the value ACTIVE.                                                           |

| 15.1 · Hazardous Air Pollutants                                                                 |
| None of the ingredients is listed.                                                               |

| 15.1 · Proposition 65                                                                          |
| 15.1 · Chemicals known to cause cancer:                                                          |
| None of the ingredients is listed.                                                               |

| 15.1 · Chemicals known to cause reproductive toxicity for females:                              |
| None of the ingredients is listed.                                                               |

| 15.1 · Chemicals known to cause reproductive toxicity for males:                                |
| None of the ingredients is listed.                                                               |

| 15.1 · Chemicals known to cause developmental toxicity:                                          |
| None of the ingredients is listed.                                                               |

| 15.1 · Carcinogenic categories                                                                  |
| 15.1 · EPA (Environmental Protection Agency)                                                    |
| 7440-47-3 chromium                                                                               |

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50.0.3

· TLV (Threshold Limit Value established by ACGIH)
  7440-47-3 chromium

· NIOSH-Ca (National Institute for Occupational Safety and Health)
  None of the ingredients is listed.

· GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms

GHS08

· Signal word Danger

· Hazard-determining components of labeling:
  White mineral oil, petroleum

· Hazard statements
  H304 May be fatal if swallowed and enters airways.

· Precautionary statements
  If swallowed: Immediately call a poison center/doctor.
  Do NOT induce vomiting.
  Store locked up.
  Dispose of contents/container in accordance with local/regional/national/international regulations.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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 02/11/2020 / -

· Abbreviations and acronyms:
  ADR: Accord européen sur le transport 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
  ACGIH: American Conference of Governmental Industrial Hygienists
  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)
Trade name: OMS standard

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
Asp. Tox. 1: Aspiration hazard – Category 1

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