1 Identification

· Product identifier
· Trade name: OMS-12
· Article number: OMS-12

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.

(Contd. on page 2)
Trade name: OMS-12

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 99.76%

- Chemical identification of the substance/preparation
  - 7429-90-5 aluminium 0.02%
  - 7439-89-6 iron 0.02%
  - 7439-92-1 lead 0.02%
  - 7439-95-4 magnesium 0.02%
  - 7440-02-0 nickel 0.02%
  - 7440-21-3 silicon 0.02%
  - 7440-22-4 silver 0.02%
  - 7440-23-5 sodium 0.02%
  - 7440-31-5 tin 0.02%
  - 7440-32-6 titanium 0.02%
  - 7440-47-3 chromium 0.02%
  - 7440-50-8 copper 0.02%

4 First-aid measures

- Description of first aid measures
  - After inhalation: Supply fresh air; consult doctor in case of complaints.
Trade name: OMS-12

- **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:**
  - Dilute with plenty of water.
  - 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**

<table>
<thead>
<tr>
<th>PAC-1:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>7439-89-6 iron</td>
<td>3.2 mg/m³</td>
</tr>
<tr>
<td>7439-92-1 lead</td>
<td>0.15 mg/m³</td>
</tr>
<tr>
<td>7439-95-4 magnesium</td>
<td>18 mg/m³</td>
</tr>
<tr>
<td>7440-02-0 nickel</td>
<td>4.5 mg/m³</td>
</tr>
<tr>
<td>7440-21-3 silicon</td>
<td>45 mg/m³</td>
</tr>
<tr>
<td>7440-22-4 silver</td>
<td>0.3 mg/m³</td>
</tr>
<tr>
<td>7440-23-5 sodium</td>
<td>13 mg/m³</td>
</tr>
<tr>
<td>7440-31-5 tin</td>
<td>6 mg/m³</td>
</tr>
<tr>
<td>7440-32-6 titanium</td>
<td>30 mg/m³</td>
</tr>
<tr>
<td>7440-47-3 chromium</td>
<td>1.5 mg/m³</td>
</tr>
<tr>
<td>7440-50-8 copper</td>
<td>3 mg/m³</td>
</tr>
</tbody>
</table>
7 Handling and storage

- **Handling:**
- Precautions for safe 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.

9 Physical and chemical properties

- Information on basic physical and chemical properties
- General Information
- Appearance:
  - Form: Liquid
  - Color: colorless
- Odor: Characteristic
- Odor threshold: Not determined.
- pH-value: Not determined.

- Change in condition
  - Melting point/Melting range: Undetermined.
  - Boiling point/Boiling range: Undetermined.
- Flash point: >112 °C (>233.6 °F)
**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:
    - Carcinogenic categories

<table>
<thead>
<tr>
<th>IARC (International Agency for Research on Cancer)</th>
<th>Carcinogenic categories</th>
</tr>
</thead>
<tbody>
<tr>
<td>7439-92-1 lead</td>
<td>2B</td>
</tr>
<tr>
<td>7440-02-0 nickel</td>
<td>2B</td>
</tr>
<tr>
<td>7440-47-3 chromium</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NTP (National Toxicology Program)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7439-92-1 lead</td>
</tr>
<tr>
<td>7440-02-0 nickel</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OSHA-Ca (Occupational Safety &amp; Health Administration)</th>
</tr>
</thead>
<tbody>
<tr>
<td>None of the ingredients is listed.</td>
</tr>
</tbody>
</table>

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.
  - **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- **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** not regulated
  - **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.

- **UN "Model Regulation":** not regulated

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**

- **Sara**

  - **Section 355 (extremely hazardous substances):**
    None of the ingredients is listed.

  - **Section 313 (Specific toxic chemical listings):**
    - 7429-90-5 aluminium
    - 7439-92-1 lead
    - 7440-02-0 nickel
    - 7440-22-4 silver

(Contd. on page 9)
<table>
<thead>
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<th>Trade name: OMS-12</th>
</tr>
</thead>
</table>

| 7440-47-3 | chromium |
| 7440-50-8 | copper |

- TSCA (Toxic Substances Control Act):
  - All components have the value ACTIVE.

- Hazardous Air Pollutants
  - 7439-92-1 lead

- Proposition 65
  - Chemicals known to cause cancer:
    - 7439-92-1 lead
    - 7440-02-0 nickel
  - Chemicals known to cause reproductive toxicity for females:
    - 7439-92-1 lead
  - Chemicals known to cause reproductive toxicity for males:
    - 7439-92-1 lead
  - Chemicals known to cause developmental toxicity:
    - 7439-92-1 lead

- Carcinogenic categories
  - EPA (Environmental Protection Agency)
    - 7439-92-1 lead B2
    - 7440-22-4 silver D
    - 7440-47-3 chromium D
    - 7440-50-8 copper D
  - TLV (Threshold Limit Value established by ACGIH)
    - 7429-90-5 aluminium A4
    - 7439-92-1 lead A3
    - 7440-02-0 nickel A5
    - 7440-47-3 chromium A4
  - NIOSH-Ca (National Institute for Occupational Safety and Health)
    - 7440-02-0 nickel

- GHS label elements
  - The product is classified and labeled according to the Globally Harmonized System (GHS).
  - Hazard pictograms
    - GHS08

- Signal word Danger
Trade name: OMS-12

- **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.

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## 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:** 05/23/2020 / -
- **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
  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
  Asp. Tox. 1: Aspiration hazard – Category 1