Dear Customer,

**This File Contains Both The ANSI Material Safety Data Sheet and The GHS Safety Data Sheet For The Same Product**

Spectrum is currently transitioning all chemical product labeling from the ANSI \(^1\) format to the GHS \(^2\) format (see note below). In order to ensure that you receive complete labeling during the transition, we have included both the ANSI MSDS and the GHS SDS in a single file. The ANSI MSDS is given first, followed by the GHS SDS. Please use whichever matches the container label.

**Why It Matters:**

The complete precautionary labeling for this chemical consists of BOTH the label on the container AND the matching Material Safety Data Sheet (for ANSI labels) or Safety Data Sheet (for GHS labels). Both elements of the labeling [Label + (M)SDS] are written to be read and understood together, so as to provide complete precautionary information. It is intended for you to read and understood BOTH before handling or using the chemical.

**Picking the Right One: 2 Easy Ways To Tell Whether Your Container Has an ANSI Label or a GHS Label**

1) GHS labels: any pictogram displayed in the upper left-hand corner will be inside a red diamond. ANSI labels: pictograms, if present, will be inside individual black boxes.

2) GHS labels: on the bottom of the right-hand panel of the label, locate the Lot Number. Directly to the left will be a string of control characters, followed by a single letter. For GHS labels, the string of characters will end in "GHS:"

---

**Label in ANSI Format**

---

**CORPORATE OFFICES**

14422 South San Pedro Street
Gardena, California 90248
PHONE 310.516.8000
FAX 310.516.9843

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www.spectrumchemical.com
\(^1\) American National Standards Institute  
\(^2\) Globally Harmonized System for Hazard Communication  

Sincerely,

Regulatory Affairs
# MATERIAL SAFETY DATA SHEET

<table>
<thead>
<tr>
<th>NFPA</th>
<th>HMIS</th>
<th>Personal Protective Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>![NFPA Symbol]</td>
<td>![HMIS Symbols]</td>
<td>![Protective Equipment]</td>
</tr>
</tbody>
</table>

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th><strong>Product code:</strong></th>
<th>S1100</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Name:</strong></td>
<td>SODIUM METAL, INGOT, REAGENT</td>
</tr>
<tr>
<td><strong>Chemical Name:</strong></td>
<td>Sodium</td>
</tr>
<tr>
<td><strong>Synonyms:</strong></td>
<td>Natrium</td>
</tr>
<tr>
<td><strong>Recommended use:</strong></td>
<td>Chemical intermediate.</td>
</tr>
<tr>
<td><strong>CAS #:</strong></td>
<td>7440-23-5</td>
</tr>
<tr>
<td><strong>RTECS #:</strong></td>
<td>VY0686000</td>
</tr>
<tr>
<td><strong>Formula:</strong></td>
<td>Na</td>
</tr>
<tr>
<td><strong>Ci#:</strong></td>
<td>Not available</td>
</tr>
</tbody>
</table>
| **Supplier:**      | Spectrum Chemicals and Laboratory Products, Inc.  
14422 South San Pedro St.  
Gardena, CA  90248  
(310) 516-8000 |
| **Order Online At:** | [https://www.spectrumchemical.com](https://www.spectrumchemical.com) |
| **Emergency Telephone Number:** | CHEMTREC: 1-800-424-9300 |
| **Contact Person:** | Regina Wachenheim (East Coast) |
| **Contact Person:** | Martin LaBenz (West Coast) |

## 2. HAZARDS IDENTIFICATION

See Section 8.
2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER!
Water Reactive
Reacts with water to release flammable gas. May cause fire
The product causes burns of eyes, skin and mucous membranes

Odor: None. Odorless.
Physical state: Solid.
Appearance: Metal.
Color: Silver-white. Metallic.

OSHA Regulatory Status
This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

POTENTIAL HEALTH EFFECTS

Principal Routes of Exposure:
Skin. Eyes. Ingestion.

Acute Potential Health Effects:

Skin Contact:
Causes skin burns.

Eye Contact:
Causes eye burns.

Inhalation:
This material in the form of ingots is unlikely to cause respiratory tract irritation and is not expected to be an inhalation hazard.

Ingestion:
Can burn mouth, throat, and stomach.

Chronic Potential Health Effects:

Component
Sodium Metal
7440-23-5 (100)

Carcinogen Status:
No information available

Target Organs: Eyes. Skin.
Mutagenic Effects: No information available
Teratogenic Effects: No information available
Aggravated Medical Conditions: No information available

See Section 11 for additional Toxicological Information

POTENTIAL ENVIRONMENTAL EFFECTS

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Product code: S1100

Product name: SODIUM METAL, INGOT, REAGENT
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Metal</td>
<td>7440-23-5</td>
<td>100</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

General Advice: Poison information centres in each State capital city can provide additional assistance for scheduled poisons (13 1126). Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Continue flushing with plenty of water for at least 15 minutes. Immediate medical attention is required. Call a physician or Poison Control Centre immediately.

Eye Contact: Flush eye with water for 15 minutes. Immediate medical attention is required. Call a physician immediately.

Inhalation: Sodium metal in ingot form is not a direct inhalation hazard. If fumes from reactions are inhaled, move to fresh air immediately.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Immediate medical attention is not required. Call a physician or Poison Control Centre immediately.

Notes to Physician: Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flammable Properties

Flashpoint (°C/°F): No information available.

Flash Point Tested according to: Not available

Lower Explosion Limit (%): No information available

Upper Explosion Limit (%): No information available

Autoignition Temperature (°C/°F): 120-125 °C/248-257 °F


Hazardous Combustion Products: Sodium oxides; hydrogen gas

Specific hazards: Dangerous when wet
Combustible material
May ignite on contact with water or moist air
Evolves flammable hydrogen gas on contact with water
Dousing metallic fires with water may generate hydrogen gas, an extremely dangerous explosion hazard, particularly if fire is in a confined environment
Heated Sodium is spontaneously flammable in air
Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Specific Methods: Do not use water on material itself. Do not get water inside containers. Cool affected containers with flooding quantities of water.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:
Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Use personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Remove all sources of ignition. Do not get water inside containers. Do not expose spill to water.

Environmental Precautions:
Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas. Do not get water inside the containers. Do not get water on spilled substance.

Methods for Cleaning Up:
Cover with Dry earth, Dry sand or other non-combustible material followed with plastic sheet to minimize spreading or contact with water. Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Clean contaminated surface thoroughly. Do not flush with water.

7. HANDLING AND STORAGE

Handling

Technical Measures/Precautions:
Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials. Do not allow contact with water.

Safe Handling Advice:
Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe vapours/dust. Protect from moisture. Never add water to this product. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

Storage

Technical Measures/Storage Conditions:
Dangerous when wet. Protect from moisture. Moisture sensitive. Keep containers dry and tightly closed to avoid moisture absorption and contamination. Keep in a well-ventilated place. Store at room temperature in the original container. Store under inert gas or in mineral oil. Store away from incompatible materials. Store in a segregated and approved area.

Incompatible Materials:

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Product code: S1100
Product name: SODIUM METAL, INGOT, REAGENT
Engineering measures to reduce exposure: Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protective Equipment

Eye protection: Goggles. Face-shield.


Respiratory protection: Respiratory protection is not necessary for normal handling. Good room ventilation or use of local exhaust (fume hood) is sufficient. Use a vapor respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapor, inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

National occupational exposure limits

United States

<table>
<thead>
<tr>
<th>Components</th>
<th>OSHA</th>
<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WHEEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Metal - 7440-23-5</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
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</tbody>
</table>

Canada

<table>
<thead>
<tr>
<th>Components</th>
<th>Alberta</th>
<th>British Columbia</th>
<th>Ontario</th>
<th>Quebec</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Metal 7440-23-5</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
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</table>

Australia and Mexico

<table>
<thead>
<tr>
<th>Components</th>
<th>Australia</th>
<th>Mexico</th>
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</thead>
<tbody>
<tr>
<td>Sodium Metal 7440-23-5</td>
<td>None</td>
<td>None</td>
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</tbody>
</table>

9. PHYSICAL AND CHEMICAL PROPERTIES
### 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Physical state:</th>
<th>Appearance:</th>
<th>Color:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Odor:</th>
<th>Molecular/Formula weight:</th>
<th>Taste</th>
</tr>
</thead>
<tbody>
<tr>
<td>None. Odorless.</td>
<td>22.99</td>
<td>No information available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Flash point (°C):</th>
<th>Lower Explosion Limit (%):</th>
<th>Upper Explosion Limit (%):</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available</td>
<td>No information available</td>
<td>No information available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Autoignition Temperature (°C/°F):</th>
<th>Melting point/range(°C/°F):</th>
<th>Boiling point/range(°C/°F):</th>
</tr>
</thead>
<tbody>
<tr>
<td>120-125 °C/248-257 °F</td>
<td>97.5-97.82 °C/207.5-208.1 °F</td>
<td>880-889 °C/1616-1632.2 °F</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>pH:</th>
<th>Specific gravity:</th>
<th>Density (g/cm3):</th>
</tr>
</thead>
<tbody>
<tr>
<td>No information available</td>
<td>No information available</td>
<td>0.97 @ 20 °C</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Decomposition temperature(°C/°F):</th>
<th>Bulk density:</th>
<th>Vapor pressure @ 20°C (kPa):</th>
</tr>
</thead>
<tbody>
<tr>
<td>No information available</td>
<td>No information available</td>
<td>No information available</td>
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<table>
<thead>
<tr>
<th>Evaporation rate:</th>
<th>Vapor density:</th>
<th>VOC content (g/L):</th>
</tr>
</thead>
<tbody>
<tr>
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<td>No information available</td>
<td>No information available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Odor threshold (ppm):</th>
<th>Partition coefficient (n-octanol/water):</th>
<th>Miscibility:</th>
</tr>
</thead>
<tbody>
<tr>
<td>No information available</td>
<td>No information available</td>
<td>No information available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Solubility:</th>
<th>Partition coefficient (n-octanol/water):</th>
<th>Miscibility:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reacts with water</td>
<td>No information available</td>
<td>No information available</td>
</tr>
<tr>
<td>Insoluble in Benzene</td>
<td>No information available</td>
<td>No information available</td>
</tr>
<tr>
<td>Insoluble in Kerosene</td>
<td>No information available</td>
<td>No information available</td>
</tr>
<tr>
<td>Insoluble in Naphtha</td>
<td>No information available</td>
<td>No information available</td>
</tr>
</tbody>
</table>

### 10. STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Stability:</th>
<th>Stable at normal conditions</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Conditions to avoid:</th>
<th>Exposure to moisture. Exposure to moist air. Exposure to water. Exposure to air. Incompatible materials.</th>
</tr>
</thead>
</table>

|------------------------|----------------------------------------------------------------------------------------------|

<table>
<thead>
<tr>
<th>Hazardous decomposition products:</th>
<th>Sodium oxides. Hydrogen.</th>
</tr>
</thead>
</table>
Possibility of Hazardous Reactions:
- Reacts with water
- May react vigorously or explosively on contact with water
- May ignite spontaneously on exposure to moist air or water
- Evolves flammable hydrogen gas on contact with water
- Violently decomposes water, forming sodium hydroxide and hydrogen gas which may ignite spontaneously.
- May produce corrosive solutions on contact with water.
- Heated sodium is spontaneously flammable in air
- When triphosphoryl fluoride is passed over heated sodium, the metal ignites
- Gaseous sodium reacts with vapors of phosphoryl chloride and phosphorus trichloride with luminescence at 270 deg. C.
- A mixture of sodium and chromium tetrachloride creates a very violent explosion on impact
- Mixtures of Sodium with silver iodate or sodium iodate explode when initiated by shock
- A rigorous reaction occurs on heating sodium metal with dimethylformamide
- Bromoazide explodes on contact with Sodium
- Sodium reacts with ammonium nitrate to form sodium hyponitrite, an explosive compound
- A highly luminous reaction occurs at room temperature between iodiine and sodium
- Maleic anhydride decomposes explosively in the presence of alkali metals
- The reaction between nitrosyl fluoride and sodium forms sodium fluoride with incandescence
- Stannic oxide is reduced by sodium with incandescence
- Sodium in contact with either potassium ozonide or potassium superoxide produces an explosive reaction
- Mixtures of sodium and nitromethane, trichloronitromethane, nitrobenzene, dinitrobenzene, dinitronaphthalene, ethyl nitrite, ethyl nitrate or glyceryl nitrate are shock-sensitive

Polymerization: Hazardous polymerisation does not occur

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component Information

Sodium Metal - 7440-23-5
- LD50/oral/rat = No information available
- LD50/oral/mouse = No information available
- LD50/dermal/rat = No information available
- LD50/dermal/rabbit = No information available
- LC50/inhalation/rat = No information available
- LC50/inhalation/mouse = No information available
- Other LD50 or LC50 information = No information available

Product Information
- LC50/inhalation/rat No information available
- LC50/Inhalation/mouse No information available
- LD50/dermal/rabbit No information available

Product code: S1100  Product name: SODIUM METAL, INGOT, REAGENT
LD50/dermal/rat = No information available  
LD50/oral/mouse = No information available  
LD50/oral/rat = No information available

Local Effects

Skin irritation: Corrosive. Causes burns.
Eye irritation: Corrosive. Causes burns.
Inhalation: This material in the form of ingots is unlikely to cause respiratory tract irritation and is not expected to be an inhalation hazard.
Ingestion: Corrosive. Causes digestive or gastrointestinal tract burns.
Sensitization: No information available

Chronic Toxicity

Chronic Toxicity No information available
Carcinogenic effects: Not considered carcinogenic

<table>
<thead>
<tr>
<th>Components</th>
<th>NTP</th>
<th>IARC</th>
<th>OSHA HCS - Carcinogens</th>
<th>ACGIH - Carcinogens</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Metal</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

Mutagenic Effects: No information available
Reproductive Effects: No information available
Teratogenic Effects: No information available
Target Organs: Eyes. Skin.

12. ECOLOGICAL INFORMATION

ECOTOXICITY

Toxicity to terrestrial and aquatic plants and animals: No information available

Ecotoxicity effects: No data available.
Aquatic toxicity: No information available
Mobility: No information available
Persistence and degradability: No information available
Bioaccumulative potential: No information available

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:  
Waste must be disposed of in accordance with Federal, State and Local regulation.
Contaminated packaging:
Empty containers should be taken for local recycling, recovery or waste disposal

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Metal</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

DOT
- UN-No: UN1428
- Proper Shipping Name: Sodium
- Hazard Class: 4.3
- Packing Group: I
- Subsidiary Risk: Not applicable
- Marine Pollutant: No data available
- ERG No: 138
- DOT RQ (lbs): No information available
- Symbol(s): R2

TDG (Canada)
- UN-No: UN1428
- Proper Shipping Name: Sodium
- Hazard Class: 4.3
- Packing Group: I
- Subsidiary Risk: No information available
- Description: No information available

ADR
- UN-No: UN1428
- Proper Shipping Name: Sodium
- Hazard Class: 4.3
- Packing Group: I
- Subsidiary Risk: No information available
- Classification Code: No information available
- Description: No information available
- CEFIC Tremcard No: No information available

IMO / IMDG
- UN-No: UN1428
- Proper Shipping Name: Sodium
- Hazard Class: 4.3
- Packing Group: I
- Subsidiary Risk: No information available
- Description: No information available
- IMDG Page: No information available
- Marine Pollutant: No information available
- EMS: F-G
- MFAG: No information available
- Maximum Quantity: No information available

RID
- UN-No: UN1428
- Proper Shipping Name: Sodium
- Hazard Class: 4.3
- Packing Group: I
- Subsidiary Risk: 4.3
- Classification Code: No information available

Product code: S1100  Product name: SODIUM METAL, INGOT, REAGENT
Description: No information available

ICAO
UN-No: UN1428
Proper Shipping Name: Sodium
Hazard Class: 4.3
Packing Group: I
Subsidiary Risk: No information available
Description: No information available

IATA
UN-No: UN1428
Proper Shipping Name: Sodium
Hazard Class: 4.3
Packing Group: I
Subsidiary Risk: No information available
ERG Code: 4W
Description: No information available

15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Components</th>
<th>U.S. TSCA</th>
<th>Philippines (PICCS)</th>
<th>KOREA KECL</th>
<th>Japan ENCS</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Metal</td>
<td>Present</td>
<td>Present</td>
<td>Present KE-31338</td>
<td>Present (6)-1195</td>
<td>Present</td>
<td>Present</td>
<td>Present 231-132-9</td>
</tr>
</tbody>
</table>

U.S. Regulations

Sodium Metal

Massachusetts RTK: Present
New Jersey RTK Hazardous Substance List: Present
New Jersey - Discharge Prevention - List of Hazardous Substances: Present
Pennsylvania RTK: Environmental hazard
Pennsylvania RTK - Environmental Hazard List: Present
RI RTK - Hazardous Substances List: Present
New York Release Reporting - List of Hazardous Substances:
10 lb RQ
Louisiana Reportable Quantity List for Pollutants: 10lbfinal RQ
4.54kgfinal RQ
California Directors List of Hazardous Substances: Present


Chemicals Known to the State of California to Cause Cancer:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

<table>
<thead>
<tr>
<th>Components</th>
<th>Carcinogen</th>
<th>Developmental Toxicity</th>
<th>Male Reproductive Toxicity</th>
<th>Female Reproductive Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Metal</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

CERCLA/SARA

Product code: S1100
Product name: SODIUM METAL, INGOT, REAGENT
<table>
<thead>
<tr>
<th>Components</th>
<th>CERCLA - Hazardous Substances and their Reportable Quantities</th>
<th>Section 302 Extremely Hazardous Substances and TPQs</th>
<th>Section 302 Extremely Hazardous Substances and RQs</th>
<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Metal</td>
<td>10 lb final RQ 4.54 kg final RQ</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**U.S. TSCA**

<table>
<thead>
<tr>
<th>Components</th>
<th>TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)</th>
<th>TSCA 8(d) - Health and Safety Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Metal</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

**Canada**

**WHMIS hazard class:**
B6  Reactive flammable material  
E   Corrosive material  

Sodium Metal  
B6  E  

**Canada Controlled Products Regulation:**
This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

**Inventory**

<table>
<thead>
<tr>
<th>Components</th>
<th>Canada (DSL)</th>
<th>Canada (NDSL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Metal</td>
<td>Present</td>
<td>Not Listed</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>CEPA Schedule I - Toxic Substances</th>
<th>CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Metal</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

**EU Classification**

**R-phrase(s)**
R14 - Reacts violently with water.  
R15 - Contact with water liberates extremely flammable gases.  
R34 - Causes burns.  

**S-phrase(s)**
S 5 - Keep contents under .?  
S 8 - Keep container dry.  
S43 - In case of fire use DRY sand, Graphite powder, or DRY Sodium Chloride based extinguishers. Never use water, foam or CO2  
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
S 1/2 - Keep locked up and out of the reach of children.

<table>
<thead>
<tr>
<th>Components</th>
<th>Classification</th>
<th>Concentration Limits:</th>
<th>Safety Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Metal</td>
<td>R14 F; R15 C; R34</td>
<td>No information</td>
<td>S1/2 S5 S8 S43 S45</td>
</tr>
</tbody>
</table>

**Product code:** S1100  
**Product name:** SODIUM METAL, INGOT, REAGENT
The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:
F - Highly flammable.
C - Corrosive.

16. OTHER INFORMATION

The MSDS format complies with ANSI Z400.1/Z129.1-2010 standards.

Preparation Date: 15-Jan-2014

Reason for revision: Not applicable

Prepared by: Sonia Owen

Literature reference: No information available

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. The physical properties reported in this MSDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.
SAFETY DATA SHEET

Preparation Date: 1/15/2014  Revision Date: 1/15/2014  Revision Number: G1

1. IDENTIFICATION

Product identifier
Product code: S1100
Product Name: SODIUM METAL, INGOT, REAGENT

Other means of identification
Synonyms: Natrium
CAS #: 7440-23-5
RTECS #: VY0686000
CI#: Not available

Recommended use of the chemical and restrictions on use
Recommended use: Chemical intermediate.
Uses advised against: No information available

Supplier:
Spectrum Chemicals and Laboratory Products, Inc.
14422 South San Pedro St.
Gardena, CA 90248
(310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone number
Chemtrec 1-800-424-9300
Contact Person: Martin LaBenz (West Coast)
Contact Person: Regina Wachenheim (East Coast)

2. HAZARDS IDENTIFICATION

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

<table>
<thead>
<tr>
<th>Condition</th>
<th>Category/Sub-category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 1/Sub-category B</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 1</td>
</tr>
<tr>
<td>Substances or mixtures which, in contact with water, emit flammable gases</td>
<td>Category 1</td>
</tr>
</tbody>
</table>

Label elements

Product code: S1100  Product name: SODIUM METAL, INGOT, REAGENT
**Danger**

**Hazard statements**
Causes severe skin burns and eye damage
In contact with water releases flammable gases which may ignite spontaneously

**Precautionary Statements - Prevention**
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Keep away from any possible contact with water, because of violent reaction and possible flash fire
Handle under inert gas. Protect from moisture

**Precautionary Statements - Response**
Immediately call a POISON CENTER or doctor/physician
Specific treatment (see .? on this label)
In case of fire: Use dry powder such as soda ash, powdered limestone or other approved dry powder to extinguish. Do not use water, CO2 or foam to extinguish fire.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or doctor/physician.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

**Precautionary Statements - Storage**
Store locked up
Store in a dry place. Store in a closed container

**Precautionary Statements - Disposal**
Dispose of contents/container to an approved waste disposal plant

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
<th>Trade Secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Metal</td>
<td>7440-23-5</td>
<td>100</td>
<td>*</td>
</tr>
</tbody>
</table>

Product code: S1100  
Product name: SODIUM METAL, INGOT, REAGENT
4. FIRST AID MEASURES

First aid measures

General Advice: Poison information centres in each State capital city can provide additional assistance for scheduled poisons (13 1126). Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Continue flushing with plenty of water for at least 15 minutes. Immediate medical attention is required. Call a physician or Poison Control Centre immediately.

Eye Contact: Flush eye with water for 15 minutes. Immediate medical attention is required. Call a physician immediately.

Inhalation: Sodium metal in ingot form is not a direct inhalation hazard. If fumes from reactions are inhaled, move to fresh air immediately.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Immediate medical attention is not required. Call a physician or Poison Control Centre immediately.

Most important symptoms and effects, both acute and delayed

Symptoms: Severe skin and eye irritation or burns.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media


Specific hazards arising from the chemical

Hazardous Combustion Products: Sodium oxides; hydrogen gas

Specific hazards:

Dangerous when wet. Combustible material. May ignite on contact with water or moist air. Evolves flammable hydrogen gas on contact with water. Dousing metallic fires with water may generate hydrogen gas, an extremely dangerous explosion hazard, particularly if fire is in a confined environment. Heated Sodium is spontaneously flammable in air.

Special Protective Actions for Firefighters

Specific Methods:

Do not use water on material itself. Do not get water inside containers. Cool affected containers with flooding quantities of water.
Special Protective Equipment for Firefighters:
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Use personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Remove all sources of ignition. Do not get water inside containers. Do not expose spill to water.

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas. Do not get water inside the containers. Do not get water on spilled substance.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Cover with DRY earth, DRY sand or other non-combustible material followed with plastic sheet to minimize spreading or contact with water.

Methods for cleaning up Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Do not allow contact with water. Clean contaminated surface thoroughly. Do not flush with water.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions: Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials. Do not allow contact with water.

Safe Handling Advice: Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe vapours/dust. Protect from moisture. Never add water to this product. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities


8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Product code: S1100
Product name: SODIUM METAL, INGOT, REAGENT
### Appropriate engineering controls

**Engineering measures to reduce exposure:**
Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Individual protection measures, such as personal protective equipment**

#### Personal Protective Equipment

**Eye protection:**
Goggles. Face-shield.

**Skin and body protection:**

**Respiratory protection:**
Respiratory protection is not necessary for normal handling. Good room ventilation or use of local exhaust (fume hood) is sufficient. Use a vapor respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapor, inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.

**Hygiene measures:**
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

---

### 9. PHYSICAL AND CHEMICAL PROPERTIES
## 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state:</td>
<td>Solid</td>
</tr>
<tr>
<td>Odor:</td>
<td>None. Odorless</td>
</tr>
<tr>
<td>Molecular/Formula weight:</td>
<td>22.99</td>
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<tr>
<td>Flash Point Tested according to:</td>
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</tr>
<tr>
<td>Autoignition Temperature (°C/°F):</td>
<td>120-125 °C/248-257 °F</td>
</tr>
<tr>
<td>Boiling point/range(°C/°F):</td>
<td>880-889 °C/1616-1632.2 °F</td>
</tr>
<tr>
<td>Density (g/cm3):</td>
<td>0.97 @ 20 °C</td>
</tr>
<tr>
<td>Evaporation rate:</td>
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</tr>
<tr>
<td>Odor threshold (ppm):</td>
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</tr>
<tr>
<td>Miscibility:</td>
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</tr>
<tr>
<td>Appearance:</td>
<td>Metal</td>
</tr>
<tr>
<td>Taste</td>
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</tr>
<tr>
<td>Flash point (°C):</td>
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</tr>
<tr>
<td>Decomposition temperature(°C/°F):</td>
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<tr>
<td>Bulk density:</td>
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<tr>
<td>Vapor density:</td>
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</tr>
<tr>
<td>Partition coefficient (n-octanol/water):</td>
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<tr>
<td>Solubility:</td>
<td>Reacts with water</td>
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<tr>
<td>Odor:</td>
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</tr>
<tr>
<td>Taste</td>
<td>No information available</td>
</tr>
<tr>
<td>Flash point (°C):</td>
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</tr>
<tr>
<td>Decomposition temperature(°C/°F):</td>
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<tr>
<td>Bulk density:</td>
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<tr>
<td>Vapor density:</td>
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<tr>
<td>Partition coefficient (n-octanol/water):</td>
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<tr>
<td>Solubility:</td>
<td>Reacts with water</td>
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<td>Reacts with water</td>
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<td>Insoluble in Kerosene</td>
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<tr>
<td>Insoluble in Naphtha</td>
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<td>Color:</td>
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<td>Specific gravity:</td>
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<td>Melting point/range(°C/°F):</td>
<td>97.5-97.82 °C/207.5-208.1 °F</td>
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<tr>
<td>Boiling point/range(°C/°F):</td>
<td>880-889 °C/1616-1632.2 °F</td>
</tr>
<tr>
<td>Density (g/cm3):</td>
<td>0.97 @ 20 °C</td>
</tr>
<tr>
<td>Evaporation rate:</td>
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<tr>
<td>Odor threshold (ppm):</td>
<td>No information available</td>
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<tr>
<td>Miscibility:</td>
<td>No information available</td>
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<tr>
<td>Appearance:</td>
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<tr>
<td>Boiling point/range(°C/°F):</td>
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<tr>
<td>Density (g/cm3):</td>
<td>0.97 @ 20 °C</td>
</tr>
<tr>
<td>Evaporation rate:</td>
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</tr>
<tr>
<td>Odor threshold (ppm):</td>
<td>No information available</td>
</tr>
<tr>
<td>Miscibility:</td>
<td>No information available</td>
</tr>
</tbody>
</table>

## 10. STABILITY AND REACTIVITY

Reactivity
10. STABILITY AND REACTIVITY

Reacts with water
Reactive with oxidizing agents
Reactive with acids
May react vigorously or explosively on contact with water
May ignite spontaneously on exposure to moist air or water
Evolves flammable hydrogen gas on contact with water
Violently decomposes water, forming sodium hydroxide and hydrogen gas which may ignite spontaneously.
May produce corrosive solutions on contact with water.
Heated sodium is spontaneously flammible in air
When triphosphoryl fluoride is passed over heated sodium, the metal ignites
Gaseous sodium reacts with vapors of phosphoryl chloride and phosphorus trichloride with luminescence at 270 deg. C.
A mixture of sodium and chromium tetrachloride creates a very violent explosion on impact
Mixtures of Sodium with silver iodate or sodium iodate explode when initiated by shock
A rigorous reaction occurs on heating sodium metal with dimethylformamide
Sodium reacts with ammonium nitrate to form sodium hyponitrite, an explosive compound
Bromoazide explodes on contact with Sodium
A highly luminous reaction occurs at room temperature between iodine and sodium
Maleic anhydride decomposes explosively in the presence of alkali metals
The reaction between nitrosyl fluoride and sodium forms sodium fluoride with incandescence
Stannic oxide is reduced by sodium with incandescence
Sodium in contact with either potassium ozonide or potassium superoxide produces an explosive reaction
Mixtures of sodium and nitromethane, trichloronitromethane, nitrobenzene dinitrobenzene, dinitronaphthalene, ethyl nitrite, ethyl nitrate or glyceryl nitrate are shock-sensitive

---

Chemical stability
Stability: Stable at normal conditions
 Possibility of Hazardous Reactions: Hazardous polymerization does not occur
 Conditions to avoid: Exposure to moisture. Exposure to moist air. Exposure to water. Exposure to air. Incompatible materials.
 Hazardous decomposition products: Sodium oxides. Hydrogen.

Other Information
Corrosivity: No information available
Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
Principal Routes of Exposure:
Skin. Eyes. Ingestion.

Acute Toxicity

Component Information

Sodium Metal - 7440-23-5
LD50/oral/rat = No information available
LD50/oral/mouse = No information available
LD50/dermal/rabbit = No information available
LD50/dermal/rat = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50 information =
No information available

Product Information

LD50/oral/rat =
VALUE- Acute Tox Oral = No information available

LD50/oral/mouse =
Value - Acute Tox Oral = No information available

LD50/dermal/rabbit
VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat
VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat
VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse
VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: Causes skin burns.

Eye Contact: Causes eye burns.

Inhalation Irritating to respiratory system
Ingestion Corrosive. Causes digestive or gastrointestinal tract burns.

Aspiration hazard No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity No information available
Sensitization: No information available
Mutagenic Effects: No information available
Carcinogenic effects: Not considered carcinogenic

<table>
<thead>
<tr>
<th>Components</th>
<th>ACGIH - Carcinogens</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA HCS - Carcinogens</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
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</thead>
<tbody>
<tr>
<td>Sodium Metal</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
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</table>

Product code: S1100 Product name: SODIUM METAL, INGOT, REAGENT
Reproductive toxicity: No data is available

Reproductive Effects: No information available
Developmental Effects: No information available
Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure: No information available
STOT - repeated exposure: No information available
Target Organs: Eyes, Skin.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.

Persistence and degradability: No information available
Bioaccumulative potential: No information available
Mobility: No information available

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:
Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:
Empty containers should be taken for local recycling, recovery or waste disposal.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Metal</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

DOT

UN-No: UN1428
Proper Shipping Name: Sodium
Hazard Class: 4.3
Subsidiary Risk: Not applicable
Packing Group: I
Marine Pollutant: No data available
ERG No: 138
DOT RQ (lbs): No information available
Symbol(s): R2

Product code: S1100  
Product name: SODIUM METAL, INGOT, REAGENT
# 14. TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>Regulation</th>
<th>UN-No:</th>
<th>Proper Shipping Name:</th>
<th>Hazard Class:</th>
<th>Subsidiary Risk:</th>
<th>Packing Group:</th>
<th>Description:</th>
<th>CEFIC Tremcard No:</th>
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<tbody>
<tr>
<td>TDG (Canada)</td>
<td>UN1428</td>
<td>Sodium</td>
<td>4.3</td>
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<td>I</td>
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<td>ADR</td>
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<td>I</td>
<td>No information available</td>
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<tr>
<td>IMO / IMDG</td>
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<tr>
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<td>UN1428</td>
<td>Sodium</td>
<td>4.3</td>
<td>No information available</td>
<td>I</td>
<td>4W</td>
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**Product code:** S1100  
**Product name:** SODIUM METAL, INGOT, REAGENT

10 / 13
15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Components</th>
<th>U.S. TSCA</th>
<th>Philippines (PICCS)</th>
<th>KOREA KECL</th>
<th>Japan ENCS</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
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<tbody>
<tr>
<td>Sodium Metal</td>
<td>Present</td>
<td>Present</td>
<td>Present KE-31338</td>
<td>Present (6)-1195</td>
<td>Present</td>
<td>Present</td>
<td>Present 231-132-9</td>
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</tbody>
</table>

U.S. Regulations

**Sodium Metal**

- **Massachusetts RTK**: Present
- **New Jersey RTK Hazardous Substance List**: Present
- **New Jersey - Discharge Prevention - List of Hazardous Substances**: Present
- **Pennsylvania RTK**: Environmental hazard
- **Pennsylvania RTK - Environmental Hazard List**: Present
- **RI RTK - Hazardous Substances List**: Present
- **New York Release Reporting - List of Hazardous Substances**: Present
  - 10 lb RQ
  - Louisiana Reportable Quantity List for Pollutants: 10lb final RQ
  - 4.54kg final RQ
  - California Directors List of Hazardous Substances: Present

**California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.**

**Chemicals Known to the State of California to Cause Cancer:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

**Chemicals Known to the State of California to Cause Reproductive Toxicity:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

<table>
<thead>
<tr>
<th>Components</th>
<th>Carcinogen</th>
<th>Developmental Toxicity</th>
<th>Male Reproductive Toxicity</th>
<th>Female Reproductive Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Metal</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

**CERCLA/SARA**

<table>
<thead>
<tr>
<th>Components</th>
<th>CERCLA - Hazardous Substances and their Reportable Quantities</th>
<th>Section 302 Extremely Hazardous Substances and TPQs</th>
<th>Section 302 Extremely Hazardous Substances and RQs</th>
<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
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<tbody>
<tr>
<td>Sodium Metal</td>
<td>10 lb final RQ 4.54 kg final RQ</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
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</table>

**U.S. TSCA**

<table>
<thead>
<tr>
<th>Components</th>
<th>TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)</th>
<th>TSCA 8(d) - Health and Safety Reporting</th>
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<tbody>
<tr>
<td>Sodium Metal</td>
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<td>Not Applicable</td>
</tr>
</tbody>
</table>

**Canada**

**WHMIS hazard class:**

B6 Reactive flammable material

E Corrosive material

| Sodium Metal | B6 E |

**Product code:** S1100  
**Product name:** SODIUM METAL, INGOT, REAGENT
**Sodium Metal**

**Canada Controlled Products Regulation:**
This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

**Inventory**

<table>
<thead>
<tr>
<th>Components</th>
<th>Canada (DSL)</th>
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</thead>
<tbody>
<tr>
<td>Sodium Metal</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>CEPA Schedule I - Toxic Substances</th>
<th>CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Metal</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

**EU Classification**

*R-phrase(s)*
R14 - Reacts violently with water.
R15 - Contact with water liberates extremely flammable gases.
R34 - Causes burns.

*S -phrase(s)*
S5 - Keep contents under .?
S8 - Keep container dry.
S43 - In case of fire use DRY sand, Graphite powder, or DRY Sodium Chloride based extinguishers. Never use water, foam or CO2
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S1/2 - Keep locked up and out of the reach of children.

<table>
<thead>
<tr>
<th>Components</th>
<th>Classification</th>
<th>Concentration Limits:</th>
<th>Safety Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Metal</td>
<td>R14 F; R15 C; R34</td>
<td>No information</td>
<td>S1/2 S5 S8 S43 S45</td>
</tr>
</tbody>
</table>

The product is classified in accordance with Annex VI to Directive 67/548/EEC

**Indication of danger:**
F - Highly flammable.
C - Corrosive.

16. OTHER INFORMATION

**Product code:** S1100 **Product name:** SODIUM METAL, INGOT, REAGENT
16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>HMIS</th>
<th>Personal Protective Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>3</td>
<td>2</td>
</tr>
</tbody>
</table>

**See Section 8.**

**Preparation Date:** 1/15/2014  
**Revision Date:** 1/15/2014  
**Prepared by:** Sonia Owen

**Disclaimer:**

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user’s responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Material Safety Data Sheet**