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| <b>Product Name:</b> Sodium<br><b>Synonyms:</b> Sodium; Natrium<br><b>CAS No.:</b> 7440-23-5<br><b>Molecular Weight:</b> 22.99<br><b>Chemical Formula:</b> Na<br><b>Catalog Codes:</b> SLS3505<br><b>CAS#:</b> 7440-23-5<br><b>RTECS:</b> VY0686000<br><b>TSCA:</b> TSCA 8(b) inventory: Sodium<br><b>CI#:</b> Not applicable. | <b>Contact Information:</b><br><b>ExplosiveMetals.com</b><br>US Sales: 1-480-593-4027<br>Order Online: <a href="http://www.explosivemetals.com">http://www.explosivemetals.com</a><br><b>CHEMTREC (24HR Emergency Telephone), call:</b><br>1-800-424-9300<br><b>International CHEMTREC, call:</b> 1-703-527-3887<br><b>For non-emergency assistance, call:</b> 1-480-593-4027 |
|--|---|

**14. Transport Information**

**Domestic (Land, D.O.T.)**

**Proper Shipping Name:** SODIUM  
**Hazard Class:** 4.3  
**UN/NA:** UN1428

**Packing Group:** I

**Information reported for product/size:** 1LB

**International (Water, I.M.O.)**

**Proper Shipping Name:** SODIUM  
**Hazard Class:** 4.3  
**UN/NA:** UN1428

**Packing Group:** I

**Information reported for product/size:** 1LB

**HAZARDOUS - DO NOT SHIP WITHOUT AUTHORIZATION**

**15. Regulatory Information**

| -----\Federal, State & International Regulations - Part 1\----- |            |     |                    |                |
|---|------------|-----|--------------------|----------------|
| Ingredient  | -SARA 302- |     | -----SARA 313----- |                |
|   | RQ         | TPQ | List               | Chemical Catg. |
| Sodium (7440-23-5)  | No         | No  | No                 | No             |

| -----\Federal, State & International Regulations - Part 2\----- |        |        |       |
|---|--------|--------|-------|
| Ingredient  | -RCRA- | -TSCA- |       |
|   | CERCLA | 261.33 | 8 (d) |
| Sodium (7440-23-5)  | 10     | No     | No    |

Chemical Weapons Convention: No      TSCA 12(b): No      CDTA: No  
SARA 311/312: Acute: Yes      Chronic: Yes      Fire: Yes      Pressure: No  
Reactivity: Yes      (Pure / Solid)

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

**16. Other Information**

**NFPA Ratings:** Health: 3 Flammability: 3 Reactivity: 2 Other: Water reactive

**Hazard Warning:**

DANGER! FLAMMABLE SOLID. CORROSIVE. WATER REACTIVE. CATCHES FIRE IF EXPOSED TO AIR. HARMFUL OR FATAL IF SWALLOWED. HARMFUL IF INHALED OR ABSORBED THROUGH SKIN. CONTACT MAY CAUSE BURNS TO ALL BODY TISSUE.

**Precautions:**

|  |   |
|--|---|
| Do not get in eyes, on skin, or on clothing. | Do not get wet.                                 |
| Do not breathe vapor.                        | Keep away from heat, sparks and flame.          |
| Use only with adequate ventilation.          | Wash thoroughly after handling.                 |
| Store in a tightly closed container.         | Remove and wash contaminated clothing promptly. |

**First Aid:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. In case of contact, wipe off excess material from skin then immediately flush eyes or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. In all cases get medical attention immediately.

**Product Use:**

Laboratory Reagent.

**Revision Information:**

No Changes.

**Disclaimer:**

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**Alan Halls provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. ALAN HALLS MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, ALAN HALLS WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION OR PRODUCT.**  
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Phone Number: (480) 593-4027 (U.S.A.)

**Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep patient quiet in half upright position. Get medical attention immediately.

**Ingestion:**

If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**Skin Contact:**

Wipe off excess material from skin then immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

**Eye Contact:**

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

**5. Fire Fighting Measures****Fire:**

Autoignition temperature: > 115C (> 239F)

Flammable solid, water reactive. Can react vigorously with water, steam, acids to release flammable/explosive hydrogen. Dangerous in presence of oxidants. May ignite spontaneously in moist air or oxygen. May re-ignite after fire is extinguished.

( Autoignition temperature given in dry air.)

**Explosion:**

Reactions with water forms sodium hydroxide and hydrogen gas which may explode. Burns violently accompanied by explosions which cause spattering of the molten material.

**Fire Extinguishing Media:**

Use dry soda ash, dry salt, sand, graphite powder or metal-fire-extinguishing dry powder such as Met-L-X®. Do not use water, foam, carbon dioxide, dry chemical, or chlorinated fire extinguishers.

**Special Information:**

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

**6. Accidental Release Measures**

Collect spilled material quickly and transfer to a container of kerosene, light oil or similar hydrocarbon fluid for recovery. Minimize exposure to air. Do not use water on metal.

If the spilled sodium has come into contact with water, proceed cautiously. The reaction can rapidly proceed to self-ignition of hydrogen and spattering of molten sodium. Evacuate the area, put on protective equipment and proceed as with a metal fire.

Waste sodium should be packaged under a hydrocarbon fluid and sent to an approved disposal facility.

US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

**7. Handling and Storage**

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Keep away from water or locations where water may be needed for fire. Avoid high temperatures. Store under nitrogen or kerosene. Never store under halogenated hydrocarbons. A detached fire-resistive building is recommended for quantity storage. Isolate from air, acids, and oxidizing materials. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

**8. Exposure Controls/Personal Protection****Airborne Exposure Limits:**

None established.

**Ventilation System:**

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

**Personal Respirators (NIOSH Approved):**

For conditions of use where exposure to the dust or mist is apparent, a full-face dust/mist respirator should be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

**Skin Protection:**

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

**Eye Protection:**

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

**9. Physical and Chemical Properties**

**Appearance:**

Light, silvery-white metal.

**Odor:**

Odorless.

**Solubility:**

Decomposes violently in water.

**Density:**

0.968 @ 20C / 4C.

**pH:**

Water solution alkaline (pH > 7).

**% Volatiles by volume @ 21C (70F):**

0

**Boiling Point:**

881.4C (1618F)

**Melting Point:**

97.8C (208F)

**Vapor Density (Air=1):**

0.003 @ 900C.

**Vapor Pressure (mm Hg):**

1.2 @ 400C (752F)

**Evaporation Rate (BuAc=1):**

No information found.

**10. Stability and Reactivity**

**Stability:**

Unstable. Reacts violently with water.

**Hazardous Decomposition Products:**

Does not decompose but can form flammable hydrogen in contact with air.

**Hazardous Polymerization:**

Will not occur.

**Incompatibilities:**

Water, oxygen, carbon dioxide, carbon tetrachloride, halogens, acetylene, metal halides, ammonium salts, oxides, oxidizing agents, acids, alcohols, chlorinated organic compounds, many other substances.

**Conditions to Avoid:**

Air, heat, flames, ignition sources and incompatibles.

**11. Toxicological Information**

| -----\Cancer Lists\----- |                      |             |               |
|--------------------------|----------------------|-------------|---------------|
| Ingredient               | ---NTP Carcinogen--- |             | IARC Category |
|                          | Known                | Anticipated |               |
| Sodium (7440-23-5)       | No                   | No          | None          |

**12. Ecological Information**

**Environmental Fate:**

No information found.

**Environmental Toxicity:**

No information found.

**13. Disposal Considerations**

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

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