

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: NEPTUNE S

ROCKMOUNT RESEARCH & ALLOYS, INC.
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2. HAZARDS IDENTIFICATION

Emergency Overview: May be harmful if inhaled. May cause respiratory track, eye and skin irritation. May be harmful if swallowed. Aspiration hazard if swallowed. Can enter lungs and cause damage. May cause damage to the following organs: lungs, central nervous system, digestive system, respiratory track, skin, eyes, blood, kidneys, liver.

GHS Classification (Hazcom 2012):

Acute Toxicity, Oral, Category 3

Acute Toxicity, Inhalation, Category 1

Germ cell mutagenicity, Category 2

Carcinogenicity, Category 1

Reproduction Toxicity, Category 1

Specific target organ toxicity, repeated exposure, Category 1

Hazardous to the aquatic environment, acute hazard, Category 1

Hazardous to the aquatic environment, long term hazard, Category 1

Labelling:

Symbols:



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Signal Word: Danger

Hazard Statements:

- H300** - Fatal if swallowed.
- H301** - Toxic if swallowed.
- H302** - Harmful if swallowed.
- H315** - Causes skin irritation.
- H331** - Toxic if inhaled.
- H350** - May cause cancer.
- H360** - May damage fertility or the unborn child.
- H373** - May cause damage to organs through prolonged or repeated exposure.
- H410** - Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

- P201** - Obtain special instructions before use.
- P202** - Do not handle until all safety precautions have been read and understood.
- P260** - Do not breathe dust, fume.
- P264** - Wash skin and hair thoroughly after handling.
- P270** - Do not eat, drink or smoke when using this product.
- P280** - Wear protective gloves/eye protection/face protection.
- P281** - Use personal protective equipment as required.
- P301 + P312** - IF SWALLOWED: Call a POISON CENTER, a doctor/physician.
- P301 + P330 + P331** - If swallowed: rinse mouth, DO NOT induce vomiting.
- P302 + P352** - IF ON SKIN: Wash with plenty of soap and water.
- P303 + P361 + P353** - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304 + P340** - If inhaled: Remove person to fresh air and keep comfortable for breathing.
- P305 + P351 + P338** - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do, continue rinsing.
- P310** - Immediately call a doctor.
- P330** - Rinse mouth.
- P363** - Wash contaminated clothing before reuse.
- P403** - Store in a well-ventilated place.
- P405** - Store locked up.
- P501** - Dispose of contents/container to an approved waste disposal plant.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Identity	CAS #	Range %	OSHA PEL (mg/m3)	ACGIH-TLV (mg/m3)
Zinc	7440-66-6	27-93	N/A	N/A
#Copper	7440-50-8	2-5	0.1	0.2
#Aluminum	7429-90-5	1-9	15	10
Cadmium	7440-43-9	<1-33	TWA 0.005	N/A

Important: This section covers the materials of which the products manufactured. The fumes and gases produced during normal use of this product are covered in section 10. The term "Hazardous" in "Hazardous Material" should be interpreted as a term required and defined in OSHA Hazard Communication Standard 29CFR 1910-1200 and it does not necessarily imply the existence of hazard. The chemicals or compounds reportable by Section 313 of SARA are marked by the symbol #.

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If continued difficulty is experienced get medical attention immediately.

Skin: Flush skin with large amounts of water. If irritation develops and persists, get medical attention.

Eye: Flush eyes with water for at least 15 minutes. Get medical attention.

Ingestion: Aspiration hazard. Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention.

SEE SECTION 2: HAZARD STATEMENTS AND PRECAUTIONARY STATEMENTS

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Film Forming Foam, Carbon Dioxide, Dry Chemical, Water Fog.

Unsuitable Extinguishing Media: None known.

Flash Point: N/A

Flammability Limits in Air by Volume: N/A

Incompatibility: N/A

Protective Equipment: Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Steps To Be Taken if Material Is Released Or Spilled:

Remove all sources of ignition, ventilate area. Contain spill, absorb, sweep-up. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers. Contain spilled liquid with sand or earth.

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7. HANDLING AND STORAGE

Precautions for Safe Handling: Wash thoroughly after handling. Wash hands before eating. Use only in a well ventilated area.

Follow all SDS/label precautions even after container is emptied because it may retain product residues.

Storage: Store locked up. Store in a well-ventilated place.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Controls: Use a NIOSH-approved respirator to prevent overexposure, when exposure exceeds limits (Section 2). Use either an atmosphere-supplying respirator or an air-purifying respirator for organic vapors in compliance with 29 CFR 1910.134, with provisions for mist removal if conditions so indicate. All application areas should be ventilated in accordance to OSHA 29 CFR 1910.94, 1910.107, 1910.108. Remove decomposition products formed during welding or flame cutting on surface coated with this product. If baking, vent fumes.

Personal protection:

Safety eyewear including splashguards or side shields recommended. Protective outerwear. Vapor respirator, NIOSH-approved. Gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Solid

Color: Metallic Gray

Odor: Odorless

Odor Threshold: Not Applicable

pH Value: Not Applicable

Melting Point: >650 Degrees F (>343 degrees C)

Boiling Point/Boiling Range: Not available.

Flash point: Not Applicable

Evaporation Rate: Not Applicable

VOC Emitted (lb./gal): Not Applicable

Explosion limits: Not Applicable

Vapor pressure: Not Applicable

Vapor density: Not Applicable

Density at 20°C: Not Applicable

Specific Gravity: (water = 1.0): Not Applicable

Solubility: Insoluble.

Partition coefficient: Not Applicable

Auto-ignition temperature: Not Applicable

Decomposition temperature: Not Applicable

Other Information: No available data.

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10. STABILITY AND REACTIVITY

Chemical Stability: This product is stable under normal conditions. Avoid Incompatible products.

Hazardous Decomposition Byproducts: Thermal decomposition generates corrosive vapors.

Hazardous Polymerization: Hazardous polymerization does not occur.

Incompatible Materials: Oxidizing materials. Strong acids. Strong bases. Halogens.

Conditions to Avoid: High or low temperatures.

11. TOXICOLOGICAL INFORMATION

LD/LC50 Values that are relevant for classification		
Aluminum 7429-90-5		
Oral	LD50, >15900 mg/kg (rat)	
Inhalation	LC50, >.888 mg/l/4h (rat)	
	LC50, .12mg/l (96)(rainbow trout)	

LD/LC50 Values that are relevant for classification		
Cadmium 7440-43-9		
Oral	LD50, 890 mg/kg (mouse)	
Inhalation	LC50, 0.025 mg/l, 900 days, (rat)	

12. ECOLOGICAL INFORMATION

Toxicity

Cadmium 7440-43-9		
EC50 Crustacea, Water flea	0.0491 mg/l, 48 hours	
LC50 Fish, Rainbow trout, Donaldson trout	0.0024-0.0029 mg/l, 96 hours	

Mobility in soil: No additional information available.

Other adverse effects: No additional information available.

13. DISPOSAL CONSIDERATIONS

Dispose in a safe manner in accordance with local/national regulations. Do not dispose of waste into sewer. Avoid release to the environment.

14. TRANSPORT INFORMATION

UN NUMBER: Not regulated

Proper Shipping Name: N/A

DOT Hazard Classification: N/A

Packaging Group: N/A

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15. REGULATORY INFORMATION

TSCA - The product on this SDS, or all of its components, is listed under TSCA.

CERCLA-SARA Hazard Category

This product has been reviewed according to the EPA "Hazard Categories" Promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories: IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD.

SARA SECTION 313:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	CAS Number
Zinc	7440-66-6
Aluminum	7429-90-5
Copper	7440-50-8
Cadmium	7440-43-9

16. OTHER INFORMATION

The information in this document is believed to be correct as of the date issued. However, no warranty is expressed to be implied regarding the accuracy or completeness of this information. This information and product are furnished on the condition that the person receiving them shall make his own determinations as to the suitability of the product for his particular purpose and on the condition that he assumes the risk of his use thereof.

This Safety Data Sheet complies with the EC directives 91/155/EEC and 93/112/EEC, including modifications 2001/58/EC. Complies with OSHA Communication Standard 29 CFR 1910.1200 and Superfund Amendments and Reauthorization Act (SARA) of 1986 Public Law 99-499

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