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**Effective Date:** 8/2/05

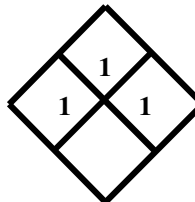
**Material Safety Data Sheet**

MSDS No: 6731

**1. PRODUCT IDENTIFICATION**

**Trade Name:** RP 38 Aluminum Granules

**Chemical Family:** Aluminum Metal



NFPA RATING

<b>Health:</b>	<b>1</b>
<b>Flammability:</b>	<b>1</b>
<b>Reactivity:</b>	<b>1</b>
<b>Personal Protection:</b>	

HMIS RATING

**Intended Use or Product Type:** Aluminum granules

**2. COMPOSITION / INFORMATION ON INGREDIENTS**

O S H A	CAS No.	CHEMICAL IDENTITY	EXPOSURE LIMITS				MFR.	CARCINOGEN STATUS		
			ACGIH		OSHA			IARC	NTP	OSHA
			TWA	STEL	PEL	STEL				
*	7429-90-5	Aluminum	2 mg/m3	NE	5 mg/m3	NE	NE	NR	NR	NR
*	7440-21-3	Silicon	10 mg/m3	NE	5 mg/m3	NE	NE	NR	NR	NR
*	7440-50-8	Copper	0.2 mg/m3	NE	0.1 mg/m3	NE	NE	NR	NR	NR
	1314-13-2	Zinc Oxide	5 mg/m3	10 mg/m3	5 mg/m3	10 mg/m3	NE	NR	NR	NR

NE = Not Established NR = Not Reviewed \* = OSHA Hazardous Ingredient

**3. HAZARDS IDENTIFICATION**

**Emergency Overview:** Dust hazard. Avoid dusty conditions. Avoid breathing dust. Use with adequate ventilation. In accord with good industrial practice, handle with due care.

**Primary Route(s) of Entry:** Dermal or inhalation

**4. FIRST AID MEASURES**

**Ingestion:** If conscious, give 2 - 4 glasses of water to drink. Do not induce vomiting. Call a physician.

**Skin:** Immediately wash with soap and water. Remove contaminated clothing and launder before reuse. Destroy contaminated shoes.

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**Inhalation:** Remove to fresh air. Call a physician.

**Eyes:** Immediately flush eyes with water for at least 15 minutes. Call a physician.

**Overexposure Effects:** Aluminum is practically inert with little degree of toxicity.

**Medical Conditions Aggravated by Exposure:** Skin and eye conditions.

**Additional Information:** Referral to a physician is recommended if there is any question about the seriousness of any injury.

## **5. FIRE FIGHTING MEASURES**

<b>Flash Point:</b>	Not Applicable
<b>Flammable Limits in Air (Lower - % by volume):</b>	Not established
<b>Flammable Limits in Air (Upper - % by volume):</b>	Not established

**Fire Fighting Extinguishing Media:** Carbon dioxide, dry chemical, foam.

**Fire Fighting Equipment:** Use self-contained breathing apparatus.

**Fire and Explosion Hazards:** Aluminum dust can be ignited by static discharge.

## **6. ACCIDENTAL RELEASE MEASURES**

**Accidental Release Measures:** Sweep up into approved disposal container. Thoroughly vacuum area. Do not create dusty condition.

## **7. HANDLING AND STORAGE**

**Signal Word:** Caution!

**Precautions:** Dust hazard. Avoid dusty conditions. Avoid breathing dust. Use with adequate ventilation. Use normal industrial hygiene practices. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.

**Other Handling Information:** Nuisance dust may be generated when sanding or sawing cured material.

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Skin Protection:** Wear canvas gloves as a standard handling procedure.

**Respiratory Protection:** Use NIOSH approved dust mask, if required during machining.

**Eye Protection:** Wear safety glasses to protect against dust particles during machining.

**Engineering Controls:** General mechanical and local exhaust in accordance with ACGIH recommendations.

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

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<b>Appearance:</b>	Fine (145 Mesh) Aluminum
<b>Odor:</b>	No Odor
<b>Physical State:</b>	Granules
<b>Solubility in Water:</b>	Insoluble
<b>Boiling Point:</b>	Not Determined
<b>Evaporation Rate:</b>	Not Determined
<b>Vapor Density:</b>	Not Determined
<b>pH:</b>	Not Determined

**Percent Volatile:** 0%

## **10. STABILITY AND REACTIVITY**

**Conditions to Avoid:** Contact with water, acids or foreign materials.**Stability:** Stable.**Incompatibility:** Water, acids, alkalies and oxidizing agents**Hazardous Decomposition Products:** Hydrogen - generated by reaction with acids, bases or water**Hazardous Polymerization:** Will not occur.

## **11. TOXICOLOGICAL INFORMATION**

**Eye Irritation:** Nuisance dust may cause irritation.

## **12. ECOLOGICAL INFORMATION**

## **13. DISPOSAL CONSIDERATIONS**

**Waste Disposal Method:** Consult qualified local or corporate personnel for method that will comply with local, state and federal health and environmental regulations.

## **14. TRANSPORT INFORMATION**

**DOT: Non-Bulk****Proper Shipping Name:** Aluminum scrap, n.o.i.**Department of Transportation:** Not regulated as a hazardous material by the U.S. Dept. of Transportation (DOT) 49 CFR 172.101 hazardous materials table.

## **15. REGULATORY INFORMATION**

**US Federal Regulations:**

**Occupational Safety and Health Act (OSHA):** This Material Safety Data Sheet (MSDS) has been prepared in compliance with the federal OSHA Hazard Communication Standard 29 CFR 1910.1200. This product is considered to be a hazardous chemical under that standard.

**Resource Conservation and Recovery Act (RCRA):** Not a hazardous waste under RCRA (40 CFR 261).

**SARA Title III: Section 313 Toxic Chemical List (TCL):** This product contains a toxic chemical(s) for routine annual toxic chemical release reporting under section 313 (40 CFR 372). This information must be included in all MSDS's copied or distributed for this material.

Chemical Name: Aluminum  
Percent in Composition: 92 % by wt  
Comment:

Chemical Name: Copper  
Percent in Composition: 1.6244 % by wt  
Comment:

**TSCA Section 8(b) - Inventory Status:** All chemical components of this product are in compliance with TSCA inventory requirements.

**TSCA Section 12(b) - Export Notification:** This product does not contain any chemical(s) that are subject to a Section 12(b) export notification.

**State Regulations:**

**California Proposition 65:** The following is required composition information. This product contains the following chemical(s) which are currently listed on the California list of Known Carcinogens and Reproductive Toxins:

Chemical Name: Nickel  
CAS Number: 7440-02-0  
Percent in Composition: 0.0406 % by wt  
Comment: Warning! This chemical is known to the State of California to cause cancer.

Chemical Name: Lead  
CAS Number: 7439-92-1  
Percent in Composition: 0.0406 % by wt  
Comment: Warning! This chemical is known to the State of California to cause cancer and birth defects or other reproductive harm.

**Pennsylvania Right-to-Know:** The following is required composition information:

Chemical Name: Aluminum  
CAS Number: 7429-90-5  
Comment: Environmental Hazardous Substance

Chemical Name: Zinc Oxide  
CAS Number: 1314-13-2  
Comment: Environmental Hazardous Substance

Chemical Name: Copper

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CAS Number: 7440-50-8  
Comment: Environmental Hazardous Substance

Chemical Name: Silicon  
CAS Number: 7440-21-3  
Comment: Hazardous Substance

Chemical Name: Nickel  
CAS Number: 7440-02-0  
Comment: Special Hazardous Substance

## **16. OTHER INFORMATION**

<b>MSDS No:</b>	6731
<b>Approved By:</b>	Dianne Blessing
<b>Title:</b>	EH&S Specialist

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