SAFETY DATA SHEET

ROCKMOUNT Welding Alloys

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: GALV-COAT

ROCKMOUNT RESEARCH & ALLOYS, INC.
11909 N. E. 95th Street
Vancouver, WA 98668
Phone: 360-254-2020
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EMERGENCY TELEPHONE NUMBER: 360-254-2020

2. HAZARDS IDENTIFICATION

Emergency Overview: May be harmful if inhaled. May cause respiratory track, eye and skin irritation. My 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):
Skin Irritation, Category 3
Carcinogenicity, Category 2
Specific Target Organ Toxicity (Repeated Exposure), Category 1
Ingestion, Category 4
Eye Irritation, Category 2A

Labelling:

Symbols:

Signal Word: Danger
Hazard Statements:
H225 – Highly flammable liquid and vapor.
H305 - May be harmful if swallowed and enters airways. Can cause lung damage.
H315 + H319 + H 335 - May cause skin, eye and respiratory irritation.
H333 - May be harmful if inhaled.
H351 – Suspected of causing cancer.
H371 - May cause damage to the following organs: Lungs, central nervous system, digestive system, respiratory system, skin, eyes, blood, kidneys, liver.

Precautionary Statements:

P210 – Keep away from heat/sparks/open flames/hot surfaces - No smoking.
P211 - Do not spray on an open flame or other ignition source.
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 – Wash skin and hair thoroughly after handling.
P272 – Contaminated work clothing should not be allowed out of the workplace.
P280 – Wear protective gloves/eye protection/face protection
P281 – Use personal protective equipment as required.
P301 + P331 - IF SWALLOWED: Do NOT induce vomiting.
P302 + P352 – IF ON SKIN: Wash with plenty of soap and water.
P305 + P338 + P351 – IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do, continue rinsing. If exposed or concerned: Get medical advice/attention.
P333 + P313 - IF skin irritation or rash occurs: Get medical advice/attention.
P363 – Wash contaminated clothing before reuse.
P405 – Store locked up.
P410 + P403 - Protect from sunlight. Store in a well ventilated place.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Identity	CAS #	Range %	OSHA PEL (mg/m3)	ACGIH-TLV (mg/m3)	Carcinogenicity	EU Classification (67/548/EEC)	GHS Classification (Haszcom 2012)
#Zinc Dust	7440-66-6	65	15	10	Yes	N/A	See Section 2
Aromatic Hydrocarbon Solvent	64742-95-6	10	100 PPM	150 PPM	No	N/A	See Section 2
#N-Butyl Acetate	123-86-4	<5	150 PPM	150 PPM	Yes	N/A	See Section 2
MICA	12001-26-2	<5	3	3	No	N/A	See Section 2
Sodium Silicoaluminate	1344-00-9	<5	NOT ESTB.	NOT ESTB	No	N/A	See Section 2
#Mineral Spirits	8052-41-2	>5	100 PPM	50 PPM	Yes	N/A	See Section 2
#1,2,4-Tri-methylbenzene	95-63-6	<5	25 PPM	25 PPM	Yes	N/A	See Section 2
#Toluene	108-88-3	5	N/A	50 PPM	No	N/A	See Section 2

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.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Film Forming Foam, Carbon Dioxide, Dry Chemical, Water Fog.
Unsuitable Extinguishing Media: Not applicable
Flash Point: 50 degrees F (Setaflash method), FLAMMABLE LIQUID.
Flammability Limits in Air by Volume: LOWER: .09% UPPER 6.4%.
Incompatibility: Incompatible with strong oxidizing agents, strong acids and strong alkalis.
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 and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers. Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust.

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: Isolate from heat, electrical equipment, sparks and open flame. Do not store above 120 degrees F. Store large quantities in buildings designed and protected for storage that comply with OSHA 1910.106

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: Liquid.
Color: Gray
Odor: Typical paint solvent odor.
Odor Threshold: Not Available
pH Value: Not Available
Freezing Point: Not Available
Boiling Point/Boiling Range: 228 degrees F.
Flash point: Not Available
Evaporation Rate: Slower than ether
VOC Emitted (lb./gal): 4.17
Explosion limits: Not Available
Vapor pressure: Not Available
Vapor density: Heavier than air
Density at 20ºC: Not Available
Specific Gravity: (water = 1.0): 1.5
Solubility: Negligible.
Partition coefficient: Not Available
Auto-ignition temperature: Not Available
Decomposition temperature: Not Available
Other Information: No available data.

10. STABILITY AND REACTIVITY

Hazardous Decomposition Byproducts: May produce hazardous fumes when heated to decomposition as in welding.
Hazardous Polymerization: Hazardous polymerization does not occur.
Incompatible Materials: Oxidizing materials.
Conditions to Avoid: High temperatures.

11. TOXICOLOGICAL INFORMATION

LD/LC50 Values that are relevant for classification		
Zinc 7440-66-6		
Oral	LD50	NE
Inhalation	LC50	NE
Dermal	LD50	NE

LD/LC50 Values that are relevant for classification		
Aluminum Flake		
Oral	LD50	NE

LD/LC50 Values that are relevant for classification		
Toluene 108-88-3		
Oral	LD50	636mg/kg (Rat, Oral)
Inhalation	LD50	26700 ppm (Rat, Inhalation, 1 hr.)

LD/LC50 Values that are relevant for classification		
Aromatic Hydrocarbon Solvent 64742-95-6		
Acute oral toxicity	LD50	1596 mg/kg (Mouse)
Acute dermal toxicity	LC50	13131 mg/kg (Rat)

12. ECOLOGICAL INFORMATION

Product is a mixture of listed components.
Aromatic hydrocarbon solvents are moderately toxic to freshwater fish, invertebrate and algae.

13. DISPOSAL CONSIDERATIONS

Recover free liquid and transfer to intact disposal container. Dispose of in accordance with all Federal, State and Local Environmental regulations.

14. TRANSPORT INFORMATION

DOT Hazard Classification: Flammable Liquid N.O.S., 3, UN1993, PGIII

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
Toluene	108-88-3

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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