

SDS Preparation Date: February 7, 2019

Rosco Laboratories Inc. 52 Harbor View Avenue Stamford, CT, USA, 06902 Phone: (203) 708 8900

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SAFETY DATA SHEET

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Name	: COATED ALUMNIUM FOIL
Product Use	: Decorative or protective wrapping materials
Chemical Family	: Metal
Supplier's name and address	: Rosco Laboratories Inc.
	52 Harbor View Avenue Stamford, CT, United States 06902
24 Hr. Emergency Tel #	: (800) 424-9300 Chemtrec U.S. (703) 527-3887 Chemtrec Outside U.S.
HMIS Rating	: <u>*</u> - Chronic Hazard 0 – Minimal 1 – Slight 2 – Moderate 3 – Serious 4 – Severe Health: 1
WHMIS Classes:	Health: 1 Flammability: 0 Reactivity: 0



SECTION 2 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Silvery gray, metallic solid. No odor. In solid form, this material is not hazardous. Dust and fumes are hazardous materials. Exposure to dust or fumes can cause eye, skin and respiratory tract irritation. Contains a material which may cause nervous system effects. Contains material that may cause an allergic skin and/or respiratory reaction. Contains material which may cause cancer.

POTENTIAL HEALTH EFFECTS

Target organs	: Eyes, skin, central nervous system
Routes of exposure	: Inhalation: YES Skin Absorption: NO Skin & Eyes: YES Ingestion: YES
Potential acute health effe	cts :
Eyes:	Contact with dust can cause irritation, reddening or conjunctivitis.
Skin:	Material is not expected to be absorbed through the skin. Contact with dust may cause mild irritation, consisting of redness and/or swelling.
Inhalation:	Harmful if inhaled. Inhalation of high concentrations of powder, dust or fume may cause respiratory and nasal irritation, coughing and difficulty breathing. Inhalation of high concentrations of metallic copper dusts or fumes may cause nasal irritation and/or nausea, vomiting and stomach pain.
Ingestion:	Not an expected route of entry. Ingestion of large amounts of dust may cause nausea, vomiting, constipation, cramps and/or stomach pain.
Potential chronic health ef	fects : Prolonged or repeated skin contact with dust may cause more severe irritation or dermatitis. Prolonged or repeated inhalation of dust or fume may cause more severe

dermatitis. Prolonged or repeated inhalation of dust or fume may cause more severe irritation and, possibly, lung damage. Repeated exposure may cause an allergic skin



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	reaction, consisting of itching, redness, swelling and rash or urticaria (hives) in sensitized individuals. Chronic exposure to very high concentrations of manganese dust has caused nervous system effects, including muscle weakness, tremors, and behavioral changes. Epidemiological studies in humans have shown an association between lung and nasal cancers and prolonged occupational exposures to high concentrations of nickel. Aluminum has been suspected of causing neurological damage.
Medical conditions aggravated by ove	rexposure
	: Exposure to dust or fume may aggravate an existing dermatitis or neurological condition; asthma; emphysema; or other respiratory diseases.
Addition health hazards	: If product is heated, inhalation of fumes released from product may cause 'polymer fume fever', a flu-like illness.
Potential environmental effects	: None reported by the manufacturer.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

			<u>ACGIH T</u>	LV	<u>OSHA F</u>	PEL
Ingredients	<u>CAS #</u>	<u>% (weight)</u>	<u>TWA</u>	<u>STEL</u>	PEL	<u>STEL</u>
Copper	7440-50-8	0.10 – 4.70	0.2 mg/m3 (fume); 1 mg/m3 (dust and mist, as Cu)	N/Av	0.1 mg/m3 (fume); 1 mg/m3 (dust and mist)	N/Av
Silicon	7440-21-3	1.00 – 13.50	N/Av	N/Av	15 mg/m3 (total dust); 5 mg/m3 (respirable fraction)	N/Av
Magnesium	7439-95-4	1.00 - 5.00	N/Av	N/Av	N/Av	N/Av
ron	7439-89-6	0.10 – 1.30	N/Av	N/Av	N/Av	N/Av
Aluminum	7429-90-5	81.00 – 99.00	1 mg/m3 (respirable fraction)	N/Av	15 mg/m3 (total dust); 5 mg/m3 (respirable fraction)	N/Av
Nickel	7440-02-0	1.00 - 5.00	1.5 mg/m3 (inhalable fraction)	N/Av	1 mg/m3	N/Av
Manganese	7439-96-5	1.00 - 2.00	0.2 mg/m3	N/Av	N/Av	N/Av
Coating	N/Av	0.00 - 3.00	N/Av	N/Av	N/Av	N/Av

Concentrations may not fall within WHMIS ranges, but reflect actual composition of product.

SECTION 4 – FIRST AID MEASURES Inhalation : Inhalation problems are not anticipated. Remove exposed person to fresh air if adverse effects, such a breathing difficulty arise. If irritation persists, seek prompt medical attention. Skin contact : If exposed to dust or fumes, wash skin with plenty of water. Remove and wash contaminated clothing before re-use. If skin rash or irritation develops and persists, or reoccurs, get medical attention.



Incompatible materials

Special packaging materials

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Eye contact	: If in eyes, rinse with water for 15 minutes. Life upper and lower lids due nsure complete removal of chemical. If irritation persists, seek prompattention.	
Ingestion	Not a likely route of exposure for the finished metal alloy. If large amo get medical attention. If large amounts of dust are ingested, immediat dilute. Consult a physical if symptoms develop.	,
Notes for physician	: There is no specific antidote or treatment for the ingredients in this pro symptomatically.	oduct. Treat

	SECTION 5 – FIRE FI	GHTING MEASURES	
Fire hazards/conditions of flammabi	litv		
	5	rmal conditions of handling.	
Flammability classification (OSHA 2		5	
- · · · · ·	: Not flammable.		
Flash point	: Not applicable.		
Flash point Method	: Not applicable.	Auto-ignition temperature : Not applicable.	
Lower flammable limit (% by vol.)	: Not applicable.	Upper flammable limit (% by vol.)	
		: Not applicable	
Suitable extinguishing media	 Dust may cause an ignitable and/or explosive atmosphere. For localized powder fires, smother with dry sand, dry dolomite, sodium chloride (salt) or soda ash. Use extinguishing measures that are appropriate to local circumstances and the surround environment. 		
Explosion data: Sensitivity to mecha	anical impact / static discharg	e	
	•	itive to mechanical impact or static discharge.	
Special fire-fighting procedures/equ	ipment		
	: None reported by the ma	anufacturer.	
Hazardous combustion products	: Oxides of carbon.		
Oxidizing properties	: None known or reported	by the manufacturer.	
SE	CTION 6 – ACCIDENT	AL RELEASE MEASURES	
Personal precautions	: Wear suitable protective	e clothing (see Section 8).	
Environmental precautions	: No special environment	al precautions required.	
Spill response/cleanup	pick up foil for reuse or Remove all sources of i	cidents, call CHEMTREC at 1-800-424-9300. For spilled solid, recycling. In dust form, this product may be an explosion hazard. gnition. Dust or fumes may be suppressed by the use of a local er free liquid or cover with inert absorbent material and place into r disposal.	
Containment	: No special containment	required.	
	SECTION 7 – HANDI	JING AND STORAGE	
Safe Handling procedures	-	st cloud formation. Do not shake clothing, rags or other items to Id be removed by washing or HEPA vacuuming.	
Storage requirements		-ventilated area. Do not store near any incompatible materials	

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ventilation and engineering measures : Local exhaust ventilation is recommended if significant dusting occurs or fumes are generated. Otherwise, use general exhaust ventilation.

: Strong acids, alkalis, and oxidizers.

: No special packaging required.



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Respiratory protection	: None required under normal conditions. If dusting occurs or fumes are go the PEL/TLV, use a NIOSH-approved half-face or full-face respirator equ efficiency particulate (HEPA) filter cartridges.	
Skin protection	: None required under normal conditions. If handler is sensitive to metals s impermeable gloves such as rubber, nitrile or neoprene are recommended	
Eye / face protection	: None required under normal conditions. In dusty conditions, wear safety goggles.	glasses or
Other protective equipment General hygiene considerations	None required when used as intended.Do not eat, drink or smoke when using the product in dust form.	

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES			
Physical state	: Solid	Appearance	: Silvery gray, metallic solid.
Odor	: Odorless	Odor threshold	: Not applicable.
pH	: Not applicable.		
Boiling point	: Not applicable.	Specific gravity	: Greater than 3
Melting/Freezing point	: 482-642°C (900-1200 °F)	Coefficient of water/oil dist	tribution
			: Not applicable.
Vapor pressure (mmHg @20°C/ 68°	[°] F): Not applicable.	Solubility in water	:
Vapor density (Air = 1)	: Not applicable.	Evaporation rate (n-Butyl a	acetate = 1)
,			: Not applicable.
Volatile organic Compounds (VOC's	s) (lbs/gal: g/l)	Volatiles (% by weight)	: Not applicable.
	: Not applicable.		
Viscosity	: Not applicable.		
Special Remarks On Fire Hazards	: Not flammable under no	rmal conditions of use.	

SECTION 10 – REACTIVITY AND STABILITY DATA

 Stability and reactivity	:	Stable under normal conditions.
Hazardous polymerization	:	Will not occur.
Conditions to avoid	:	Avoid contact with carbon monoxide, particularly at temperatures between 50 °C and
		300 °C, to prevent formation of nickel carbonyl, a toxic and carcinogenic chemical.
Materials to Avoid and Incompatibility	:	For finely divided aluminum: Strong oxidizers cause violent reaction with heat generation. Acids and alkalis react to generate hydrogen gas. Water and aluminum dust mixture may be hazardous in confined spaces or containers, due to generation of hydrogen gas. Halogenated hydrocarbons such as chloroform can react violently with finely divided aluminum.
Hazardous decomposition products	:	When heated to decomposition, may produce oxides of metals such as aluminum, copper and iron. Inhalation of fumes, may result in metal fume fever, a flu-like illness.

SECTION 11 - TOXICOLOGICAL INFORMATION

	LC₅₀(4hr)	LD ₅₀	
Ingredients	<u>inh, rat</u>	oral	dermal
Copper	N/Av	N/Av	N/Av
Silicon	N/Av	3160 mg/kg	N/Av
Magnesium	N/Av	230 mg/kg	N/Av
Iron	N/Av	984 mg/kg	N/Av



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Aluminum	N/Av	N/Av	N/Av	
Nickel	N/Av	> 9000 mg/kg	N/Av	
Manganese	N/Av	9 g/kg	N/Av	
Coating	N/Av	N/Av	N/Av	
Toxicological data	: Low order of toxicity for nor hazardous.	mal industrial handling. The finished	alloy metal is not	
Carcinogenic status	caused an increase in lung	, chronic exposure to high concentra and nasal tumors. IARC has classifi oup 2B. The NTP classifies nickel a	ed nickel as possibly	
Reproductive effects	Exposure of male rats to high	r reported to cause reproductive or or gh concentrations of nickel caused to	esticular degeneration.	
		emic toxicity, including severe weigh centrations, indicating that the testion xicity.		
Teratogenicity		: Not expected to be a teratogen.		
Mutagenicity	: Not expected to be mutagenic in humans.			
Reproductive effects	Exposure of male rats to hig However, symptoms of syst	r reported to cause reproductive or or gh concentrations of nickel caused to remic toxicity, including severe weigh incentrations, indicating that the testion xicity.	esticular degeneration. ht loss, were also	
Irritancy		e irritation and possibly eye injury P	ossible inhalation irritant	
Sensitization to material	5	to cause skin and respiratory sensi	tization.	
Synergistic materials	: None reported by the manu			
Neurological effects: This produ	ct is not known or reported to cause		ure to very high	
concentrations for manganese of	lust has caused nervous system effe	ects, including muscle weakness, tre	emors and behavioral	

	SECTION 12 – ECOLOGICAL INFORMATION
Environmental effects	: None expected in current form. However, it is recommended not to allow the material to enter the environment.
Important environmental char	acteristics
	: None known or reported by the manufacturer.
Ecotoxicological	: Copper: The toxicity of copper to aquatic organisms varies significantly, not only with the species, but also with the physical and chemical characteristics of the water, such as its temperature, hardness, turbidity and carbon dioxide content. Copper concentrations varying from 0.1 to 1.0 mg/L have been found by various investigators to be not toxic for most fish. However, concentrations of 0.016 to 3.0 mg/L have been reported as toxic, particularly in soft water, to many kinds of fish, crustaceans, mollusks, insects and plankton. Nickel:LC50 (96 hr) rainbow trout: 31.7 mg/L; LC50 (96 hr) fathead minnow: 3.1 mg/L; EC50 (72 hr) freshwater algae (4 species): 0.1 mg/L; LC50/96h/daphnia = 0.51 mg/L.
	GEOTION 12 DISDOCAL CONSIDERATIONS

SECTION 13 – DISPOSAL CONSIDERATIONS			
Handling for Disposal	: See Section 7 (Handling and Storage) section for further details.		
Methods of Disposal	: Care must be taken to prevent environmental contamination from the use of this material. The user of this material has the responsibility to dispose of unused material, residues and containers, in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and non-hazardous wastes. This product may be a candidate for metal reclamation.		



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SECTION 14 - TRANSPORTATION INFORMATION

Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label
TDG	None	Not regulated.	Not regulated	-None-	\oslash
TDG Additional information	None.				
49CFR/DOT	None	Not regulated.	Not regulated	-None-	\oslash
49CFR/DOT Additional information	None.				
ICAO/IATA	None	Not regulated.	Not regulated	-None-	\bigotimes
ICAO/IATA Additional information	None.				
IMDG	None	Not regulated.	Not regulated	-None-	\oslash
IMDG Additional information	None.		1		

SECTION 15 – REGULATORY INFORMATION

US Federal Information:

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

SARA 313: Copper, manganese, aluminum (fume or dust), Nickel.

CERCLA: Copper, RQ = 5000 lbs.; Nickel, RQ = 100 lbs. (No reporting is required if diameter of the pieces of metal is equal to or exceeds 100 micrometers (0.004 inches).)

US State Right to Know Laws:

This product contains nickel, a chemical know to the State of California to cause cancer.

Canadian Regulations:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

Canadian WHMIS Classification: Class D2B (Materials Causing Other Toxic Effects, Toxic Material)

This product has been classified according to the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.



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		SECTION 16 – OTHER INFORMATION		
L	Legend	: ACGIH: American Conference of Governmental Industrial Hygienists IARC: International Agency for Research on Cancer N/Ap: not applicable N/Av: not available NIOSH: National Institute of Occupational Safety and Health NTP: National Toxicology Program OSHA: Occupational Safety and Health Administration		
F	References	: Information obtained from sources including original supplier's Safety Data Sheet, and reference including RTECS and CCOHS Cheminfo.		

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http://http://www.rosco.com/



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