

SDS Preparation Date: February 7, 2019 SDS Review Date: September 1, 2021 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 Product Use Chemical Family	 Blackwrap®, Cinefoil[™], Photofoil[™] Decorative or protective wrapping materials : Metal :Rosco Laboratories Inc.
Supplier's name and address	
	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	: *- Chronic Hazard 0 – Minimal 1 – Slight 2 – Moderate 3 – Serious 4 – Severe
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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Medical conditions aggr	avated by overexp	Dosure
		xposure to dust or fume may aggravate an existing dermatitis or neurological condition; sthma; emphysema; or other respiratory diseases.
Addition health hazards		product is heated, inhalation of fumes released from product may cause 'polymer fume ever', a flu-like illness.
Potential environmental	effects : N	one 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.



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Eye contact	: If in eyes, rinse with water for 15 minutes. Life upp ensure complete removal of chemical. If irritation p attention.	5 5
Ingestion	 Not a likely route of exposure for the finished meta get medical attention. If large amounts of dust are dilute. Consult a physical if symptoms develop. 	, s
Notes for physician	: There is no specific antidote or treatment for the in symptomatically.	ngredients in this product. Treat

Fire hazards/conditions of flammab	ility				
	: Not flammable under normal condition	ons of handling.			
Flammability classification (OSHA 2	29 CFR 1910. 1200)				
	: 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					
Explosion data: Sensitivity to mecha	anical impact / static discharge				
	: Not expected to be sensitive to mech	hanical impact or static discharge.			
Special fire-fighting procedures/equ	ipment				
	: None reported by the manufacturer.				
Hazardous combustion products	: Oxides of carbon.				
Oxidizing properties	zing properties : None known or reported by the manufacturer.				
SECTION 6 – ACCIDENTAL RELEASE MEASURES					
Personal precautions	: Wear suitable protective clothing (se	ee Section 8).			
		: No special environmental precautions required.			
Environmental precautions		•			
Environmental precautions Spill response/cleanup		ns required. I CHEMTREC at 1-800-424-9300. For spilled solid,			
	: For all transportation accidents, call pick up foil for reuse or recycling. In	CHEMTREC at 1-800-424-9300. For spilled solid, dust form, this product may be an explosion hazard.			
	: For all transportation accidents, call pick up foil for reuse or recycling. In Remove all sources of ignition. Dus	CHEMTREC at 1-800-424-9300. For spilled solid, dust form, this product may be an explosion hazard. t or fumes may be suppressed by the use of a local			
	: For all transportation accidents, call pick up foil for reuse or recycling. In Remove all sources of ignition. Dus exhaust system. Recover free liquid	CHEMTREC at 1-800-424-9300. For spilled solid, dust form, this product may be an explosion hazard.			
Spill response/cleanup	: For all transportation accidents, call pick up foil for reuse or recycling. In Remove all sources of ignition. Dus exhaust system. Recover free liquid appropriate container for disposal.	CHEMTREC at 1-800-424-9300. For spilled solid, dust form, this product may be an explosion hazard. t or fumes may be suppressed by the use of a local			
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Spill response/cleanup	 For all transportation accidents, call pick up foil for reuse or recycling. In Remove all sources of ignition. Dus exhaust system. Recover free liquid appropriate container for disposal. No special containment required. SECTION 7 – HANDLING ANI Do not ingest. Avoid dust cloud form.	CHEMTREC at 1-800-424-9300. For spilled solid, dust form, this product may be an explosion hazard. t or fumes may be suppressed by the use of a local d or cover with inert absorbent material and place into D STORAGE mation. Do not shake clothing, rags or other items to			
Spill response/cleanup Containment Safe Handling procedures	 For all transportation accidents, call pick up foil for reuse or recycling. In Remove all sources of ignition. Dust exhaust system. Recover free liquid appropriate container for disposal. No special containment required. SECTION 7 – HANDLING ANI Do not ingest. Avoid dust cloud for remove dust. Dust should be remover.	CHEMTREC at 1-800-424-9300. For spilled solid, dust form, this product may be an explosion hazard. t or fumes may be suppressed by the use of a local d or cover with inert absorbent material and place into D STORAGE mation. Do not shake clothing, rags or other items to red by washing or HEPA vacuuming.			
Spill response/cleanup Containment	 For all transportation accidents, call pick up foil for reuse or recycling. In Remove all sources of ignition. Dus exhaust system. Recover free liquid appropriate container for disposal. No special containment required. SECTION 7 – HANDLING ANI Do not ingest. Avoid dust cloud forr remove dust. Dust should be remove Store in a cool, dry, well-ventilated appropriate appropriate appropriate appropriate appropriate contain appropriate. 	CHEMTREC at 1-800-424-9300. For spilled solid, dust form, this product may be an explosion hazard. t or fumes may be suppressed by the use of a local d or cover with inert absorbent material and place into D STORAGE mation. Do not shake clothing, rags or other items to			
Spill response/cleanup Containment Safe Handling procedures Storage requirements	 For all transportation accidents, call pick up foil for reuse or recycling. In Remove all sources of ignition. Dus exhaust system. Recover free liquid appropriate container for disposal. No special containment required. SECTION 7 – HANDLING ANI Do not ingest. Avoid dust cloud forr remove dust. Dust should be remove Store in a cool, dry, well-ventilated a (see section 10). 	CHEMTREC at 1-800-424-9300. For spilled solid, dust form, this product may be an explosion hazard. t or fumes may be suppressed by the use of a local d or cover with inert absorbent material and place into D STORAGE mation. Do not shake clothing, rags or other items to red by washing or HEPA vacuuming.			
Spill response/cleanup Containment Safe Handling procedures	 For all transportation accidents, call pick up foil for reuse or recycling. In Remove all sources of ignition. Dus exhaust system. Recover free liquid appropriate container for disposal. No special containment required. SECTION 7 – HANDLING ANI Do not ingest. Avoid dust cloud forr remove dust. Dust should be remove Store in a cool, dry, well-ventilated appropriate appropriate appropriate appropriate appropriate contain appropriate. 	CHEMTREC at 1-800-424-9300. For spilled solid, dust form, this product may be an explosion hazard. t or fumes may be suppressed by the use of a local d or cover with inert absorbent material and place into D STORAGE mation. Do not shake clothing, rags or other items to red by washing or HEPA vacuuming.			

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.



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Respiratory protection	: None required under normal conditions. If dusting occurs of the PEL/TLV, use a NIOSH-approved half-face or full-face efficiency particulate (HEPA) filter cartridges.	-
Skin protection	: None required under normal conditions. If handler is sensi impermeable gloves such as rubber, nitrile or neoprene ar	,
Eye / face protection	: None required under normal conditions. In dusty condition goggles.	s, wear safety 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.	
рН	: Not applicable.			
Boiling point	: Not applicable.	Specific gravity	: Greater than 3	
Melting/Freezing point	: 482-642°C (900-1200 °F)	Coefficient of water/oil dis	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 acetate = 1)		
,			: Not applicable.	
Volatile organic Compounds (VOC's) (lbs/gal: g/l) : Not applicable.	Volatiles (% by weight)	: Not applicable.	
Viscosity	: Not applicable.			
Cracial Demortes On Fire Herende	Not florence blo un dor no	rmal conditions of use		

Special Remarks On Fire Hazards : Not flammable under normal conditions of use.

SECTION 10 - REACTIVITY AND STABILITY DATA

5101		
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

	LC ₅₀ (4hr)	LD50		
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	



COATED ALUMINUM FOIL			SDS No.:7120	
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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 norma hazardous.	: Low order of toxicity for normal industrial handling. The finished alloy metal is not hazardous.		
Carcinogenic status	caused an increase in lung ar	In laboratory animal studies, chronic exposure to high concentrations of nickel has caused an increase in lung and nasal tumors. IARC has classified nickel as possibly carcinogenic to humans, Group 2B. The NTP classifies nickel as a known human carcinogen.		
Reproductive effects	Exposure of male rats to high However, symptoms of syster	: This product is not known or reported to cause reproductive or developmental effects. Exposure of male rats to high concentrations of nickel caused testicular degeneration. However, symptoms of systemic toxicity, including severe weight loss, were also observed that the same concentrations, indicating that the testicular effects were		
Teratogenicity	, ,	: Not expected to be a teratogen.		
Mutagenicity	: Not expected to be mutagenic	c in humans.		
Reproductive effects	: This product is not known or reported to cause reproductive or developmental effects. Exposure of male rats to high concentrations of nickel caused testicular degeneration. However, symptoms of systemic toxicity, including severe weight loss, were also			

However, symptoms of systemic toxicity, including severe weight loss, were also
observed that the same concentrations, indicating that the testicular effects were
secondary to the general toxicity.
: Direct contact causes severe irritation and possibly eye injury Possible inhalation irritant.
Irritating to skin.
: Exposure to nickel is known to cause skin and respiratory sensitization.
: None reported by the manufacturer.

Neurological effects: This product is not known or reported to cause neurological effects. Chronic exposure to very high concentrations for manganese dust has caused nervous system effects, including muscle weakness, tremors and behavioral changes in humans. Chronic exposure to aluminum has been suspected as a possible cause of neurological damage.

	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 chara	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.

	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.	·	I		1
49CFR/DOT	None	Not regulated.	Not regulated	-None-	\oslash
49CFR/DOT Additional information	None.	·	I		1
ICAO/IATA	None	Not regulated.	Not regulated	-None-	\bigotimes
ICAO/IATA Additional information	None.	·	I		1
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
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
References	: Information obtained from sources including original supplier's Safety Data Sheet, and reference including RTECS and CCOHS Cheminfo.

CECTION 1/ OTHER INCOMATION

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



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