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Rosco Laboratories Inc.
 52 Harbor View Avenue
 Stamford, CT, United States
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 Telephone: (203) 708 8900
 MSDS No.: SF/DF/PA

ROSCOFLAMEX SF/DF/PA
MSDS Reviewed Date Nov. 9, 2009

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MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name **ROSCOFLAMEX SF, ROSCOFLAMEX DF, ROSCOFLAMEX PA**

Product Use Coating - Flame retardant

Chemical Family N/Av

Supplier's name and address:
Rosco Laboratories Inc.
 52 Harbor View Avenue
 Stamford, CT, United States
 06902

24 Hr. Emergency Tel # (800) 424-9300

HMIS Rating * - Chronic hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe

Health: 1 *Flammability:* 0 *Reactivity:* 0

WHMIS Classes:



TOXIC

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredients</u>	<u>CAS #</u>	<u>% (weight)</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
			<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Ammonium bromide	12124-97-9	5.00 - 10.00	N/Av	N/Av	N/Av	N/Av

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Straw-colored liquid. Little or no odor. Irritating to eyes and skin.

POTENTIAL HEALTH EFFECTS

Target organs None reported by the manufacturer.

Routes of exposure *Inhalation:* YES *Skin Absorption:* NO *Skin & Eyes:* YES *Ingestion:* YES

Potential acute health effects

Eyes: Contact with eyes may cause irritation. May cause burning sensation, redness and tearing (watering).

Skin: May cause irritation.



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Inhalation: May cause irritation to upper respiratory system. Symptoms may include coughing, chest pain and shortness of breath. May decompose to form toxic/corrosive gasses if exposed to high heat.

Ingestion: Swallowing large amounts may be harmful. Swallowing may cause irritation, nausea and vomiting.

Potential chronic health effects

Contact dermatitis can result from prolonged overexposure.

Medical conditions aggravated by overexposure

Pre-existing skin conditions.

Additional health hazards

None reported by the manufacturer.

Potential environmental effects

None reported by the manufacturer.

SECTION 4 - FIRST AID MEASURES

Inhalation

If inhaled, move to fresh air. If irritation persists, seek prompt medical attention.

Skin contact

Wash affected areas with soap and water. Remove and wash contaminated clothing before re-use.

Eye contact

Rinse immediately with plenty of water for at least 15 minutes. If irritation persists, seek prompt medical attention.

Ingestion

Call a physician or Poison Control Centre immediately. Dilute with large quantities of water or milk. Never give anything by mouth to an unconscious person. Induce vomiting if and as directed by medical personnel.

Notes For Physician

Low degree of toxicity.

SECTION 5 - FIRE FIGHTING MEASURES

Fire hazards/conditions of flammability

Not flammable under normal conditions of handling. May decompose to form toxic/corrosive gasses if exposed to high heat.

Flammability classification (OSHA 29 CFR 1910.1200)

Not flammable.

Flash point

Not applicable.

Flash point Method

Not applicable.

Auto-ignition temperature

Not available.

Lower flammable limit (% by vol.)

Not applicable.

Upper flammable limit (% by vol.)

Not applicable.

Suitable extinguishing media

Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

Explosion data: Sensitivity to mechanical impact / static discharge

Not sensitive to static discharge or mechanical impact under normal conditions of use and handling.

Special fire-fighting procedures/equipment

In case of fire, evacuate area. Firefighters should wear self-contained breathing apparatus (SCBA). In confined spaces or where the risk of skin exposure is much higher (e.g. handling bulk material), impervious clothing should also be worn. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas or for large spill clean-up sites.

Hazardous combustion products

Thermal decomposition products include: Ammonia.

Oxidizing properties

None.



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SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear suitable protective clothing (see Section 8).
Environmental precautions	If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.
Spill response/cleanup	Absorb material with mop or sponge. Place contaminated material in sealed containers for disposal. Wash area thoroughly with a detergent solution and rinse well with water.
Containment	Place in an approved metal container. Seal the container.

SECTION 7 - HANDLING AND STORAGE

Safe Handling procedures	Do not ingest. Avoid prolonged, direct contact with skin. Keep containers closed when not in use. Use with adequate ventilation. Do not breathe vapors or spray mist. Avoid contact with eyes.
Storage requirements	Store in a cool, dry, well-ventilated area. Do not freeze. Inspect periodically for damage or leaks.
Incompatible materials	Incompatible with strong acids and bases.
Special packaging materials	Liquid-proof glass, plastic or non-corrodable metal containers are recommended.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ventilation and engineering measures	General mechanical ventilation is sufficient for use with this product. Provide adequate cross air circulation. Ensure fresh air during application and drying (for example, by opening all windows and doors or using mechanical ventilation).
Respiratory protection	Not required under normal conditions of handling. Use NIOSH/MSHA approved full-face respirator with an organic vapor cartridge if the recommended exposure limit is exceeded.
Skin protection	Wear impervious gloves, such as neoprene or nitrile rubber.
Eye / face protection	Safety glasses with side shields should be used with this product. Chemical splash goggles are recommended.
Other protective equipment	Emergency showers and eyewash facilities should be nearby. Wear appropriate impermeable clothing to prevent prolonged and repeated skin contact.
General hygiene considerations	Wash hands thoroughly after using this product, and before eating, drinking or smoking. Wash hands before breaks and at the end of workday.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid	Appearance	Pale straw-colored liquid
Odor	Little or no odor.	Odor threshold	Not available.
pH	7.1	Specific gravity	1
Boiling point	100 °C	Coefficient of water/oil distribution	Not available.
Melting/Freezing point	0 °C		



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Vapor pressure (mmHg @ 20° C / 68° F)	Equal to water	Solubility in water	Complete
Vapor density (Air = 1)		Evaporation rate (n-Butyl acetate = 1)	Equal to water
Volatile organic Compounds (VOCs) (lbs/gal;g/l)	0 %	Volatiles (% by weight)	Not available.
Viscosity	Not available.		
Special Remarks On Fire Hazards	Not flammable under normal conditions of use.		

SECTION 10 - REACTIVITY AND STABILITY DATA

Stability and reactivity	Stable under normal conditions.
Hazardous polymerization	Will not occur.
Conditions to avoid	None reported by the manufacturer.
Materials To Avoid And Incompatibility	Incompatible with strong acids and oxidizing agents.
Hazardous decomposition products	Thermal decomposition products include: Ammonia.

SECTION 11 - TOXICOLOGICAL INFORMATION

<u>Ingredients</u>	LC ₅₀ (4hr)		LD ₅₀	
	<u>inh, rat</u>	<u>oral</u>	<u>dermal</u>	
Ammonium bromide	N/Av	2700 mg/kg	N/Av	
Toxicological data	Low order of toxicity for normal industrial handling.			
Carcinogenic status	No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.			
Reproductive effects	Not expected to have other reproductive effects.			
Teratogenicity	Not expected to be a teratogen.			
Mutagenicity	Not expected to be mutagenic in humans.			
Reproductive Effects	Not expected to have other reproductive effects.			
Irritancy	Irritating to eyes, respiratory system and skin.			
Sensitization to material	Not expected to be a sensitizer.			
Synergistic materials	None known.			

SECTION 12 - ECOLOGICAL INFORMATION

Environmental effects	None known or reported by the manufacturer. However, it is recommended not to allow the material to enter the environment.
Important environmental characteristics	None known or reported by the manufacturer.
Ecotoxicological	No data is available on the product itself.



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SECTION 13 - DISPOSAL CONSIDERATIONS

Handling for Disposal
Methods of Disposal

See Section 7 (Handling and Storage) section for further details.
Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.

SECTION 14 - TRANSPORTATION INFORMATION

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

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.
SARA Section 313: This material is not subject to SARA notification requirements, since it does not contain any Toxic Chemical Constituents above de minimus concentrations.

US State Right to Know Laws:

California Proposition 65: To the best of our knowledge, this product does not contain any chemicals known to the State of California to cause cancer or reproductive harm.



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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 MSDS contains all of the information required by the CPR.

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 Material Safety Data Sheet, and references including RTECS and CCOHS Cheminfo.



Prepared for:

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