



FLEXCOAT

MSDS No.:7120

MSDS Preparation Date: January 3, 2007

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MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name : **FLEXCOAT**

Product Use : Coating - Flame retardant

Chemical Family : Not available.

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>
Aqueous acrylic emulsion	Mixt-ur-e	30.0 - 60.0	N/Av	N/Av	N/Av	N/Av
Ammonia	7664-41-7	0.1 - 1.0	25 ppm TWA	35 ppm STEL	50 ppm TWA; 35 mg/m3 TWA	35 ppm STEL; 27 mg/m3 STEL
Calcium carbonate	471-34-1	15.0 - 40.0	10 mg/m3 TWA (particulate matter containing no asbestos and <1% crystalline silica)	N/Av	N/Av	N/Av
Aluminum trihydroxide	21645-51-2	7.0 - 13.0	N/Av	N/Av	N/Av	N/Av
Titanium dioxide	13463-67-7	1.0 - 5.0	10 mg/m3 TWA	N/Av	15 mg/m3 TWA (total dust)	N/Av
Amorphous silica	7631-86-9	1.0 - 5.0	N/Av	N/Av	N/Av	N/Av
Aluminum hydroxide	21645-51-2	1.0 - 5.0	N/Av	N/Av	N/Av	N/Av

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW



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Appearance: liquid, thixotropic. Ammonia odor. Severe eye irritant. Harmful if inhaled or swallowed.

POTENTIAL HEALTH EFFECTS

Target organs : Eyes and respiratory system
Routes of exposure : *Inhalation:* YES *Skin Absorption:* NO *Skin & Eyes:* YES *Ingestion:* YES

Potential acute health effects :

Eyes: Causes severe eye irritation. Vapors may irritate eyes. Mists may cause irritation.
Skin: May cause slight irritation.
Inhalation: Possible headache, nausea. May cause lung irritation. Irritation of the nose and throat.
Ingestion: Abdominal pain, Nausea, Vomiting.

Potential chronic health effects

: None known or reported by the manufacturer.

Medical conditions aggravated by overexposure

: Pre-existing skin and respiratory disorders.

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 : Remove and wash contaminated clothing before re-use. Wash affected areas with soap and water. If irritation occurs or persists, seek medical attention.
Eye contact : Immediately flush eyes with running water for at least 20 minutes. If irritation persists, seek prompt medical attention.
Ingestion : Do not induce vomiting without medical advice. Call a physician immediately. Clean mouth with water and drink afterwards plenty of water.
Notes For Physician : Low degree of toxicity.

SECTION 5 - FIRE FIGHTING MEASURES

Fire hazards/conditions of flammability

: Not flammable under normal conditions of handling.

Flammability classification (OSHA 29 CFR 1910.1200)

: Not flammable.

Flash point

: 96 °C

Flash point Method

: Seta Flash CC

Auto-ignition temperature : Not available.

Lower flammable limit (% by vol.)

: Not applicable.

Upper flammable limit (% by vol.)

: Not applicable.

Suitable extinguishing media

: Does not sustain combustion. 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 expected to be sensitive to mechanical impact or static discharge.

Special fire-fighting procedures/equipment

: None reported by the manufacturer.

Hazardous combustion products

: Oxides of carbon.

Oxidizing properties

: None known or reported by the manufacturer.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions : Caution! Spilled material may be slippery. Use care to avoid falling. Wear suitable protective clothing (see Section 8).



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- Environmental precautions** : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.
- Spill response/cleanup** : Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Water spray: Dilute with water. Flush any residue in the spill area with water. Dispose of rinse water in accordance with local and national regulations.
- Containment** : Transfer liquid to containers for recovery or disposal. Dispose of in accordance with local regulations.

SECTION 7 - HANDLING AND STORAGE

- Safe Handling procedures** : Use and store in a cool, dry, well-ventilated area. Avoid breathing vapors. Avoid contact with eyes, skin and clothing. Do not ingest. Keep containers closed when not in use.
- Storage requirements** : Store in a cool, dry, well-ventilated area. Inspect periodically for damage or leaks. Do not freeze.
- Incompatible materials** : Strong oxidizers (e.g. Chlorine, Peroxides, etc.).
- Special packaging materials** : Liquid-proof glass, plastic or non-corrodible metal containers are recommended.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

- Ventilation and engineering measures** : Local exhaust is preferable. Use with adequate ventilation. 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** : None required under normal conditions.
- Skin protection** : Gloves impervious to the material are recommended.
- Eye / face protection** : Use safety goggles. If splashing is anticipated, splash goggles and a face shield are recommended.
- Other protective equipment** : Emergency showers and eyewash facilities should be nearby.
- General hygiene considerations** : Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

- | | |
|--|--|
| Physical state : Liquid. | Appearance : Thixotropic. |
| Odor : Sweet ammonia odor. | Odor threshold : Not available. |
| pH : Not available. | |
| Boiling point : 100 °C | Specific gravity : 1.43 |
| Melting/Freezing point : N/Av | Coefficient of water/oil distribution : Not available. |
| Vapor pressure (mmHg @ 20° C / 68° F) : Not available. | Solubility in water : Appreciable. (10.0 - 99.9%) |
| Vapor density (Air = 1) : Less than 1.0 (Air = 1.0) | Evaporation rate (n-Butyl acetate = 1) : Not available. |
| Volatile organic Compounds (VOC's) (lbs/gal;g/l) : 6.0 g/l | 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.



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Hazardous polymerization : Will not occur.
Conditions to avoid : Not applicable.

Materials To Avoid And Incompatibility
 : Oxidizing agents. Incompatible materials (see Section 7).

Hazardous decomposition products
 : Carbon dioxide, carbon monoxide and other unidentified organic compounds. Acrylic monomers.

SECTION 11 - TOXICOLOGICAL INFORMATION

<u>Ingredients</u>	<u>LC₅₀(4hr)</u> <u>inh. rat</u>	<u>LD₅₀</u>	
		<u>oral</u>	<u>dermal</u>
Aqueous acrylic emulsion	N/Av	N/Av	N/Av
Ammonia	N/Av	N/Av	N/Av
Calcium carbonate	N/Av	6450 mg/kg (rat)	N/Av
Aluminum trihydroxide	N/Av	>5000 mg/kg (rat)	N/Av
Titanium dioxide	N/Av	>10000 mg/kg (rat)	N/Av
Amorphous silica	N/Av	> 5000 mg/kg (rat)	> 2000 mg/kg (rabbit)
Aluminum hydroxide	N/Av	> 5000 mg/kg (rat)	N/Av

Toxicological data : Low order of toxicity for normal industrial handling.
Carcinogenic status : Contains the following chemical(s) listed as carcinogenic or possibly carcinogenic by IARC: titanium dioxide.
Reproductive effects : Not expected to have other reproductive effects.
Teratogenicity : Contains substances that may damage genetic material or cause embryotoxic/ fetotoxic effects. This product contains: Aluminum trihydroxide, Aluminum hydroxide.
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 reported by the manufacturer.

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.

SECTION 13 - DISPOSAL CONSIDERATIONS

Handling for Disposal : See Section 7 (Handling and Storage) section for further details.
Methods of Disposal : 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



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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.

Canadian Regulations:

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

Canadian WHMIS Classification: Class D2A (Materials Causing Other Toxic Effects, Very Toxic Material); 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.





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