



OFF BROADWAY

MSDS No.:5300 Series

MSDS Preparation Date: January 3, 2007

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MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name:

OFF BROADWAY

Off Broadway - White (No.5350)
Off Broadway - White White (No. 5351)
Off Broadway - Black (No. 5352)
Off Broadway - Yellow Ochre (No. 5353)
Off Broadway - Burnt Umber (No. 5354)
Off Broadway - Raw Sienna (No. 5355)
Off Broadway - Burnt Sienna (No. 5356)
Off Broadway - Raw Umber (No. 5357)
Off Broadway - Earth Umber (No. 5358)
Off Broadway - Ultra Blue (No. 5359)
Off Broadway - Fire Red (No. 5360)
Off Broadway - Deep Red (No. 5361)
Off Broadway - Emerald Green (No. 5364)
Off Broadway - Lemon Yellow (No. 5366)
Off Broadway - Purple (No. 5368)
Off Broadway - Magenta (No. 5369)
Off Broadway - Pthalo Green (No. 5371)
Off Broadway - Sky Blue (No. 5372)
Off Broadway - Pthalo Blue (No. 5373)

Product Use:

Paint

Chemical Family:

Mixture

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: 1

Reactivity: 0

WHMIS Classes:



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SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS



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Ingredients	CAS #	% (weight)	ACGIH TLV		OSHA PEL	
			TWA	STEL	PEL	STEL
Off Broadway - Burnt Umber						
Off Broadway - Earth Umber						
Manganese dioxide	1313-13-9	1.0 - 5.0	N/Av	N/Av	N/Av	N/Av
Silica, crystalline-quartz	14808-60-7	0.1 - 1.0	0.025 mg/m3	N/Av	(10)/(%SiO2 + 2) mg/m3	N/Av
Carbon black	1333-86-4	0.1 - 1.0	3.5 mg/m3	N/Av	3.5 mg/m3	N/Av
Off Broadway - Chrome Oxide						
Silica, crystalline-cristobalite	14464-46-1	3.0 - 7.0	0.025 mg/m3	N/Av	N/Av	N/Av
Off Broadway - Ultra Blue						
Off Broadway - Fire Red						
Off Broadway - Deep Red						
Off Broadway - Emerald Green						
Off Broadway - Purple						
Off Broadway - Magenta						
Off Broadway - Pthalo Blue						
Off Broadway - Raw Sienna						
Silica, crystalline-cristobalite	14464-46-1	3.0 - 7.0	0.025 mg/m3	N/Av	N/Av	N/Av
Off Broadway - White						
Off Broadway - White White						
Off Broadway - Black						
Off Broadway - Yellow Ochre						
Off Broadway - Burnt Sienna						
Off Broadway - Raw Umber						
Off Broadway - Lemon Yellow						
Off Broadway - Pthalo Green						
Off Broadway - Sky Blue						
Silica, crystalline-quartz	14808-60-7	0.1 - 1.0	0.025 mg/m3	N/Av	(10)/(%SiO2 + 2) mg/m3	N/Av

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Liquid. Color as per product name. Causes skin and eye irritation. Contains material which can cause cancer.

POTENTIAL HEALTH EFFECTS

Target organs:

Eyes, skin, respiratory system.

Routes of exposure:

Inhalation: YES Skin Absorption: YES Skin & Eyes: YES Ingestion: YES

Potential acute health effects:

- Eyes:* Causes eye irritation. May cause conjunctivitis, irritation, and inflammation of mucous membranes. May cause burning sensation, redness and tearing (watering). Possible severe irritation.
- Skin:* Irritating to skin. Possible irritation, defatting or dermatitis (rash). Components of the product may be absorbed into the body through the skin. May cause central nervous system depression.
- Inhalation:* Can cause irritation of the respiratory tract. Prolonged exposure to vapours may be harmful to health. If higher concentrations are inhaled, additional symptoms may include coughing, shortness of breath, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. May cause mucous membrane irritation. Other adverse effects: Asphyxia. Severe lung irritation or lung damage, loss of appetite. Sanding and grinding dusts may be harmful if inhaled. Contains particles which may cause lung damage if inhaled in large quantities. No. 5350: Pneumoconiosis, or "dusty lung" disease, may result from chronic exposure to any dust.
- Ingestion:* Lung aspiration hazard. This product may be aspirated (inhaled) into the lungs during ingestion. May cause lung inflammation. May cause mucous membrane irritation. Ingestion may cause symptoms similar to inhalation. May cause gastrointestinal irritation. Gastrointestinal irritation may include abdominal pain, nausea, diarrhea and vomiting. Other adverse effects: intoxication. No. 5350: Will irritate mouth and throat.



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Potential chronic health effects:

Prolonged skin contact may defat the skin and produce dermatitis. Harmful by skin absorption. May cause central nervous system depression. Prolonged inhalation of vapors may cause lung damage, including chronic bronchitis. Contains crystalline silica; prolonged exposure by inhalation of particles can cause serious lung damage, including silicosis.

Medical conditions aggravated by overexposure:

None expected, when used as intended.

Additional health hazards:

Exposure to respirable silica is not possible under normal conditions of use. Crystalline Silica has been classified as a carcinogen in dry powder form only.

Potential environmental effects:

None reported by the manufacturer.

SECTION 4 - FIRST AID MEASURES

Inhalation: If breathed in, move person into fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Seek immediate medical attention/advice.

Skin contact: Flush with plenty of water. Wash off with soap and plenty of water. Remove and wash contaminated clothing before re-use. If irritation persists, seek prompt medical attention.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If irritation persists, seek prompt medical attention.

Ingestion: Call a physician or Poison Control Centre immediately. Do NOT induce vomiting. Guard against aspiration into lungs by having the individual turn on their left side.

Notes For Physician: Treat symptomatically.

SECTION 5 - FIRE FIGHTING MEASURES

Fire hazards/conditions of flammability:
Not flammable under normal conditions of handling. Toxic fumes may be released during a fire.

Flammability classification (OSHA 29 CFR 1910.1200):
OSHA Combustible Liquid IIIB.

Flash point: Not available.

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:
Dry chemical, foam, carbon dioxide and water fog.

Explosion data: Sensitivity to mechanical impact / static discharge:
Not expected to be sensitive to mechanical impact or static discharge.

Special fire-fighting procedures/equipment:
Firefighters should wear an approved full-face, self-contained breathing apparatus (SCBA) and impervious clothing. Water may be ineffective on fire, but may be helpful in cooling unburned containers. Do not use a solid water stream as it may scatter and spread fire. If water is used, fog nozzles are preferable.

Hazardous combustion products:
Oxides of carbon, nitrogen, and sulfur. Oxygen. Acrid fumes, toxic gases.

Oxidizing properties: None expected.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions: All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Avoid breathing vapors. Wear resistant clothing and boots.

Environmental precautions: Prevent product from entering drains, sewers, waterways and soil.



Spill response/cleanup: Eliminate all ignition sources if safe to do so. Ventilate area of release. Use only non-sparking tools and equipment in the clean-up process. 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).

Containment: Should not be released into the environment. Recover free liquid or cover with inert absorbent material and place into appropriate container for disposal.

SECTION 7 - HANDLING AND STORAGE

Safe Handling procedures: Use with adequate ventilation. Avoid breathing vapour or mist. Avoid contact with skin and eyes. Wash hands thoroughly after using this product, and before eating, drinking or smoking. Avoid breathing of dust created by cutting, sanding, or grinding. Sanding and grinding dusts may be harmful if inhaled. Do not re-use empty containers. Do not puncture container. Keep in properly labeled containers. Wear suitable protective equipment. Do not ingest.

Storage requirements: Store in a cool, dry, well-ventilated area. Keep away from excessive heat, open flames, sparks and other possible sources of ignition. Do not freeze. Keep container tightly closed when not in use. Store in upright position only. Keep out of the reach of children. Empty product containers may contain hazardous product residue. Keep away from oxidizing materials.

Incompatible materials: Oxidizing agents. Acids and bases. Aluminum. Ammonium salts. Other: magnesium, chlorinated rubber. Strong acids, bases and oxidizing or reducing agents. No. 5350: Hydrofluoric acid

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: Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits. Use explosion-proof equipment. Discharge exhaust only in area away from ignition sources.

Respiratory protection: Use NIOSH/MSHA approved full-face respirator with an organic vapour cartridge if the recommended exposure limit is exceeded. In order to avoid inhalation of spray-mist and sanding dust, all spraying and sanding must be done wearing adequate respirator. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02.

Skin protection: Gloves impervious to the material are recommended.

Eye / face protection: Safety glasses with side-shields or chemical splash goggles.

Other protective equipment: Emergency showers and eyewash facilities should be nearby. Depending on conditions of use, safety shoes and additional protective clothing may also be necessary.

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	: Colour as per product name
Odour	: Not available.	Odour threshold	: Not available.
pH	: Not available.		
Boiling point	: 100 °C	Specific gravity	: 1.2 - 1.5
Melting/Freezing point	: Not available.	Coefficient of water/oil distribution	: Not available.
		Solubility in water	: Soluble
Vapour pressure (mmHg @ 20° C / 68° F)			



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- : 1.0 (No. 5350-5352, 5359)
- 83 -760 (No. 5353, 5372, 5354, 5358)
- 0.6 - 760.0 (No. 5356, 5360, 5371)
- 0.06 - 760 (No. 5366)
- 760 (No. 5361, 5364, 5368, 5369, 5373, 5355, 5357, 5361)

Vapour density (Air = 1) : Heavier than air.

Evaporation rate (n-Butyl acetate = 1)

: Slower than n-butyl acetate

Volatile organic Compounds (VOC's) (lbs/gal;g/l)

Volatiles (% by weight)

: 50.14 (No. 5350-5352, 5356, 5359)

- : 0.79 / 94.70 (No. 5350)
- 0.83/100.11 (No.5351)
- 0.79 / 95.4 (No.5352)
- 0.79 / 95.6 (No. 5353)
- 1.00/121.04 (No. 5356)
- 0.85 / 102.4 (No. 5357)
- 0.81 / 97.88 (No. 5366)
- 0.86/103.70 (No. 5371)
- 0.94/113.88 (No. 5372)
- 0.97/117.29 (No. 5359)
- 1.02/123.38 (No. 5360)
- 1.05/126.06 (No. 5361)
- 1.08/130.78 (No. 5364)
- 1.06/127.69 (No. 5368)
- 1.04/125.28 (No. 5369)
- 1.08/130.03 (No. 5373)
- 1.13/136.05 (No. 5355)
- 1.23/147.9 (No. 5354, 5358)

- 44.67 (No. 5353)
- 45.95 (No. 5357)
- 46.7 (No. 5366)
- 49.39 (No. 5371)
- 47.01 (No. 5372)
- 59.95 (No. 5360)
- 60.08 (No. 5361)
- 59.34 (No. 5364)
- 61.6 (No. 5368)
- 61.04 (No. 5369)
- 59.82 (No. 5373)
- 56.51 (No. 5355)
- 62.16 (No. 5354, 5358)

Viscosity : Not available.

Special Remarks On Fire Hazards

- : Not flammable under normal conditions of use. This product will not burn, due to its water content. May spatter if the temperature exceeds the boiling point. Vapors may irritate eyes. May irritate skin.

SECTION 10 - REACTIVITY AND STABILITY DATA

Stability and reactivity : Stable under normal conditions.

Hazardous polymerization : Will not occur.

Conditions to avoid : High temperatures. Keep away from excessive heat, open flames, sparks and other possible sources of ignition. Oxidizing agents. Do not freeze.

Materials To Avoid And Incompatibility

- : See Section 7 (Handling and Storage) section for further details.

Hazardous decomposition products

- : See hazardous combustion products.

SECTION 11 - TOXICOLOGICAL INFORMATION



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<u>Ingredients</u>	<u>LC₅₀(4hr)</u> <u>inh, rat</u>	<u>LD₅₀</u>	
		<u>oral</u>	<u>dermal</u>
Off Broadway - Burnt Umber Off Broadway - Earth Umber			
Manganese dioxide	N/Av	3478 mg/kg (rat)	N/Av
Silica, crystalline-quartz	N/Av	N/Av	N/Av
Carbon black	6750 mg/m3/4H (rat)	>15,400 mg/kg (rat)	>3000 mg/kg (rabbit)
Off Broadway - Chrome Oxide			
Silica, crystalline-cristobalite	N/Av	N/Av	N/Av
Off Broadway - Ultra Blue Off Broadway - Fire Red Off Broadway - Deep Red Off Broadway - Emerald Green Off Broadway - Purple Off Broadway - Magenta Off Broadway - Pthalo Blue Off Broadway - Raw Sienna			
Silica, crystalline-cristobalite	N/Av	N/Av	N/Av
Off Broadway - White Off Broadway - White White Off Broadway - Black Off Broadway - Yellow Ochre Off Broadway - Burnt Sienna Off Broadway - Raw Umber Off Broadway - Lemon Yellow Off Broadway - Pthalo Green Off Broadway - Sky Blue			
Silica, crystalline-quartz	N/Av	N/Av	N/Av

- Toxicological data** : Low order of toxicity for normal industrial handling.
- Carcinogenic status** : Contains Crystalline silica. Crystalline silica is classified as carcinogenic by IARC (Group 1), the ACGIH (Category A2) and the NTP (Group 1 - Known human carcinogen). Contains crystalline silica; prolonged exposure by inhalation of particles can cause serious lung damage, including silicosis. Crystalline Silica has been classified as a carcinogen in dry powder form only. Exposure to respirable silica is not possible under normal conditions of use.
No. 5354, 5358:This product contains Carbon black, an IARC Group 2B carcinogen.
- Reproductive effects** : Not expected to have other reproductive effects.
- Teratogenicity** : Not expected to be a teratogen.
- Mutagenicity** : Contains Carbon black. Carbon black is suspected of causing mutations in non-reproductive cells, based on animal data.
- Reproductive Effects** : Not expected to have other reproductive effects.
- Irritancy** : Eyes, skin, respiratory system and digestive system.
- 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.
- 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** : 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. Do not puncture or incinerate. Contact waste disposal services.

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:

All ingredients are listed on the TSCA Inventory, or are exempted materials.

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: This product contains a chemical known to the State of California to cause cancer and/or reproductive harm. This product contains: Crystalline silica, carbon black.

Canadian Regulations:

Canadian Environmental Protection Act (CEPA): All ingredients are listed on the DSL, or are exempted materials.

Canadian WHMIS Classification: D2A, D2B.

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



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- 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.

<p>Prepared for: Rosco Laboratories Inc. 52 Harbor View Avenue Stamford, CT, USA, 06902 Phone: (203) 708 8900 http://http://www.rosco.com/</p>	
<p>Prepared by: ICC The Compliance Center Inc. Canada: 1-888-977-4834 USA: 1-888-442-9628 http://www.thecompliancecenter.com</p>	

DISCLAIMER OF LIABILITY

Every effort has been made to ensure that the safety information on this sheet is accurate, but because Rosco Laboratories, Inc. has no control over the conditions under which the product will be used, liability is limited exclusively to replacement or refund of the purchase price of this product. Except as stated herein, there are no express or implied warranties, including implied warranties of merchantability or fitness for a particular purpose. Rosco Laboratories, Inc. assumes no liability for injury or incidental or consequential damages arising out of storage, handling or use of this product.

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MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name : **OFF BROADWAY**
 Off Broadway - Chrome Oxide (No.5365)
 Off Broadway - Bright Gold (No. 5383)
 Off Broadway - Gold (No. 5384)
 Off Broadway - Antique Gold (No. 5387)

Product Use : Paint

Chemical Family : Mixture

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:* 1 *Reactivity:* 0

WHMIS Classes:



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SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS



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Ingredients	CAS #	% (weight)	ACGIH TLV		OSHA PEL	
			TWA	STEL	PEL	STEL
Off Broadway - Bright Gold						
Copper	7440-50-8	7.0 - 13.0	0.2 mg/m3 (fume); 1 mg/m3 (dusts and mists)	N/Av	0.1 mg/m3 (fume); 1 mg/m3 (dusts and mists)	N/Av
Zinc dust	7440-66-6	1.0 - 5.0	N/Av	N/Av	N/Av	N/Av
Isopropyl alcohol	67-63-0	1.0 - 5.0	200 ppm	400 ppm	400 ppm (980 mg/m3)	500 ppm (1225 mg/m3)
Off Broadway - Chrome Oxide						
Cristobalite	14464-46-1	3.0 - 7.0	0.025 mg/m3	N/Av	N/Av	N/Av
Chromium oxide	1308-38-9	7.0 - 13.0	N/Av	N/Av	N/Av	N/Av
Off Broadway - Gold, Off Broadway - Antique Gold						
Zinc dust	7440-66-6	1.0 - 5.0	N/Av	N/Av	N/Av	N/Av
Copper	7440-50-8	7.0 - 13.0	0.2 mg/m3 (fume); 1 mg/m3 (dusts and mists)	N/Av	0.1 mg/m3 (fume); 1 mg/m3 (dusts and mists)	N/Av

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Liquid. Color as per product name. Causes skin and eye irritation. No. 5365: Contains material which can cause cancer.

*****POTENTIAL HEALTH EFFECTS*****

Target organs : Eyes, skin, respiratory system.
Routes of exposure : *Inhalation:* YES *Skin Absorption:* YES *Skin & Eyes:* YES *Ingestion:* YES

Potential acute health effects :

Eyes: Causes eye irritation. May cause conjunctivitis, irritation, and inflammation of mucous membranes. May cause burning sensation, redness and tearing (watering). Possible severe irritation.

Skin: Irritating to skin. Possible irritation, defatting or dermatitis (rash). Components of the product may be absorbed into the body through the skin. May cause central nervous system depression.

Inhalation: Can cause irritation of the respiratory tract. Prolonged exposure to vapors may be harmful to health. If higher concentrations are inhaled, additional symptoms may include coughing, shortness of breath, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. May cause mucous membrane irritation. Other adverse effects: Asphyxia. Severe lung irritation or lung damage, loss of appetite. Sanding and grinding dusts may be harmful if inhaled. Contains particles which may cause lung damage if inhaled in large quantities.

Ingestion: Lung aspiration hazard. This product may be aspirated (inhaled) into the lungs during ingestion. May cause lung inflammation. May cause mucous membrane irritation. Ingestion may cause symptoms similar to inhalation. May cause gastrointestinal irritation. Gastrointestinal irritation may include abdominal pain, nausea, diarrhea and vomiting. Other adverse effects: intoxication.

Potential chronic health effects

: Prolonged skin contact may defat the skin and produce dermatitis. Harmful by skin absorption. May cause central nervous system depression. Prolonged inhalation of vapors may cause lung damage, including chronic bronchitis. No. 5365: Contains crystalline silica; prolonged exposure by inhalation of particles can cause serious lung damage, including silicosis.

Medical conditions aggravated by overexposure

: None expected, when used as intended.



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Additional health hazards : No. 5365: Exposure to respirable silica is not possible under normal conditions of use. Crystalline Silica has been classified as a carcinogen in dry powder form only.

Potential environmental effects : None reported by the manufacturer.

SECTION 4 - FIRST AID MEASURES

- Inhalation** : If breathed in, move person into fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Seek immediate medical attention/advice.
- Skin contact** : Flush with plenty of water. Wash off with soap and plenty of water. Remove and wash contaminated clothing before re-use. If irritation persists, seek prompt medical attention.
- Eye contact** : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If irritation persists, seek prompt medical attention.
- Ingestion** : Call a physician or Poison Control Centre immediately. Do NOT induce vomiting. Guard against aspiration into lungs by having the individual turn on their left side.
- Notes For Physician** : Treat symptomatically.

SECTION 5 - FIRE FIGHTING MEASURES

Fire hazards/conditions of flammability

- : Not flammable under normal conditions of handling. Toxic fumes may be released during a fire.

Flammability classification (OSHA 29 CFR 1910.1200)

- : OSHA Combustible Liquid IIIB.

Flash point

- : Not available.

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

- : Dry chemical, foam, carbon dioxide and water fog.

Explosion data: Sensitivity to mechanical impact / static discharge

- : Not expected to be sensitive to mechanical impact or static discharge.

Special fire-fighting procedures/equipment

- : Firefighters should wear an approved full-face, self-contained breathing apparatus (SCBA) and impervious clothing. Water may be ineffective on fire, but may be helpful in cooling unburned containers. Do not use a solid water stream as it may scatter and spread fire. If water is used, fog nozzles are preferable.

Hazardous combustion products

- : Oxides of carbon, nitrogen, and sulphur. Oxygen. Acrid fumes, toxic gases, metal oxides.

Oxidizing properties

- : None expected.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions

- : All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Avoid breathing vapors. Wear resistant clothing and boots.

Environmental precautions

- : Prevent product from entering drains, sewers, waterways and soil.

Spill response/cleanup

- : Eliminate all ignition sources if safe to do so. Ventilate area of release. Use only non-sparking tools and equipment in the clean-up process. 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).

Containment

- : Should not be released into the environment. Recover free liquid or cover with inert absorbent material and place into appropriate container for disposal.



SECTION 7 - HANDLING AND STORAGE

- Safe Handling procedures** : Use with adequate ventilation. Avoid breathing vapor or mist. Avoid contact with skin and eyes. Wash hands thoroughly after using this product, and before eating, drinking or smoking. Avoid breathing of dust created by cutting, sanding, or grinding. Sanding and grinding dusts may be harmful if inhaled. Do not re-use empty containers. Do not puncture container. Keep in properly labeled containers. Wear suitable protective equipment. Do not ingest.
- Storage requirements** : Store in a cool, dry, well-ventilated area. Keep away from excessive heat, open flames, sparks and other possible sources of ignition. Do not freeze. Keep container tightly closed when not in use. Store in upright position only. Keep out of the reach of children. Empty product containers may contain hazardous product residue. Keep away from oxidizing materials.
- Incompatible materials** : Oxidizing agents. Acids and bases. Aluminum. Ammonium salts. Other: magnesium, chlorinated rubber. Strong acids, bases and oxidizing or reducing agents.
- 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** : Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits. Use explosion-proof equipment. Use non-sparking equipment. Discharge exhaust only in area away from ignition sources.
- Respiratory protection** : Use NIOSH/MSHA approved full-face respirator with an organic vapor cartridge if the recommended exposure limit is exceeded. In order to avoid inhalation of spray-mist and sanding dust, all spraying and sanding must be done wearing adequate respirator. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02.
- Skin protection** : Gloves impervious to the material are recommended.
- Eye / face protection** : Safety glasses with side-shields or chemical splash goggles.
- Other protective equipment** : Emergency showers and eyewash facilities should be nearby. Depending on conditions of use, safety shoes and additional protective clothing may also be necessary.
- 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 : Color as per product name |
| Odor : Not available. | Odor threshold : Not available. |
| pH : Not available. | |
| Boiling point : 100 °C | Specific gravity : 1.2 |
| Melting/Freezing point : Not available. | Coefficient of water/oil distribution : Not available. |
| Vapor pressure (mmHg @ 20° C / 68° F) : 1.4 (No. 5384, 5387)
0.5 (No. 5383)
1.0 (No. 5365) | Solubility in water : Soluble |
| Vapor density (Air = 1) : Heavier than air. | Evaporation rate (n-Butyl acetate = 1) : Slower than n-butyl acetate |
| Volatile organic Compounds (VOC's) (lbs/gal;g/l) : 0.80/96.14(No. 5384)
1.30/156.58 (No.5387)
2.13/256.67 (No.5383)
0.81/97.66 (No. 5365) | Volatiles (% by weight) : 58.14 (No. 5384)
67.56 (No. 5387)
70.56 (No.5383)
50.14 (No.5365) |
| Viscosity : Not available. | |



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Special Remarks On Fire Hazards

- : Not flammable under normal conditions of use. This product will not burn, due to its water content. May spatter if the temperature exceeds the boiling point. Vapors may irritate eyes. May irritate skin.

SECTION 10 - REACTIVITY AND STABILITY DATA

- Stability and reactivity** : Stable under normal conditions.
- Hazardous polymerization** : Will not occur.
- Conditions to avoid** : High temperatures. Keep away from excessive heat, open flames, sparks and other possible sources of ignition. Oxidizing agents. Do not freeze.
- Materials To Avoid And Incompatibility** : See Section 7 (Handling and Storage) section for further details.
- Hazardous decomposition products** : See hazardous combustion products.

SECTION 11 - TOXICOLOGICAL INFORMATION

<u>Ingredients</u>	<u>LC₅₀(4hr)</u> <u>inh, rat</u>	<u>LD₅₀</u>	
		<u>oral</u>	<u>dermal</u>
Off Broadway - Bright Gold			
Copper	N/Av	N/Av	N/Av
Zinc dust	N/Av	N/Av	N/Av
Isopropyl alcohol	17,000 ppm/4H (rat)	4720 mg/kg (rat)	12,890 mg/kg (rabbit)
Off Broadway - Chrome Oxide			
Cristobalite	N/Av	N/Av	N/Av
Chromium oxide	N/Av	N/Av	N/Av
Off Broadway - Gold, Off Broadway - Antique Gold			
Zinc dust	N/Av	N/Av	N/Av
Copper	N/Av	N/Av	N/Av

- Toxicological data** : Low order of toxicity for normal industrial handling.
- Carcinogenic status** : No.5365:Contains Crystalline silica. Crystalline silica is classified as carcinogenic by IARC (Group 1), the ACGIH (Category A2) and the NTP (Group 1 - Known human carcinogen). Contains crystalline silica; prolonged exposure by inhalation of particles can cause serious lung damage, including silicosis. Crystalline Silica has been classified as a carcinogen in dry powder form only. Exposure to respirable silica is not possible under normal conditions of use.
 No. 5354, 5358:This product contains Carbon black, an IARC Group 2B carcinogen.
- Reproductive effects** : No. 5383, 5384, 5387: Contains a chemical or chemicals that may cause male and/or female reproductive toxicity. This product contains: copper.
- Teratogenicity** : No.5383:Contains a chemical or chemicals which may be teratogenic. This product contains: isopropyl alcohol.
- Mutagenicity** : Not expected to be mutagenic in humans.
- Reproductive Effects** : No. 5383, 5384, 5387: Contains a chemical or chemicals that may cause male and/or female reproductive toxicity. This product contains: copper.
- Irritancy** : Eyes, skin, respiratory system and digestive system.
- Sensitization to material** : No. 5383, 5384, 5387: Contains a chemical or chemicals that may cause skin sensitization. This product contains: copper.
 No.5383: Contains a chemical or chemicals that may cause skin sensitization. This product contains: isopropyl alcohol.
 No.5365:Contains a chemical or chemicals that may cause skin sensitization. This product contains: Chromium oxide.



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Synergistic materials : No.5383,5384,5387: Contains an ingredient which interacts with other trace elements when absorbed into the body, and competes with other metals. This product contains: Zinc.

SECTION 12 - ECOLOGICAL INFORMATION

Environmental effects : None known or reported by the manufacturer.

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. Do not puncture or incinerate. Contact waste disposal services.

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:

All ingredients are listed on the TSCA Inventory, or are exempted materials.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This product may be subject to SARA notification requirements, since it contains Toxic Chemical constituents above their de minimus concentrations. This product contains: Copper, Zinc (No. 5383, 5384, 5387).

CERCLA Reportable Quantity (RQ) (40 CFR 117.302): Copper (5,000 lbs/2270 kg); Zinc (1,000 lbs/ 454 kg) (No. 5383, 5384, 5387).



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US State Right to Know Laws:

California Proposition 65: This product contains a chemical known to the State of California to cause cancer and/or reproductive harm. This product contains: Crystalline silica, cristobalite (No. 5365).

Canadian Regulations:

Canadian Environmental Protection Act (CEPA): All ingredients are listed on the DSL, or are exempted materials.
Canadian WHMIS Classification: D2A, D2B.

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.

<p>Prepared for: Rosco Laboratories Inc. 52 Harbor View Avenue Stamford, CT, USA, 06902 Phone: (203) 708 8900 http://http://www.rosco.com/</p>	
<p>Prepared by: ICC The Compliance Center Inc. Canada: 1-888-977-4834 USA: 1-888-442-9628 http://www.thecompliancecenter.com</p>	

DISCLAIMER OF LIABILITY

Every effort has been made to ensure that the safety information on this sheet is accurate, but because Rosco Laboratories, Inc. has no control over the conditions under which the product will be used, liability is limited exclusively to replacement or refund of the purchase price of this product. Except as stated herein, there are no express or implied warranties, including implied warranties of merchantability or fitness for a particular purpose. Rosco Laboratories, Inc. assumes no liability for injury or incidental or consequential damages arising out of storage, handling or use of this product.

Preparation Date: January 3, 2007



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MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name : **OFF BROADWAY**
 Off Broadway - Orange (No. 5363)
 Off Broadway - Golden Yellow (No. 5367)
 Off Broadway - Silver (No. 5385)

Product Use : Paint

Chemical Family : Mixture.

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>
No hazardous ingredients	N/A-v	N/Av	N/Av	N/Av	N/Av	N/Av

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Liquid. Color as per product name. No special hazards exist with this product. As with any chemical substance, caution and care will prevent unnecessary accidents and safety problems. Read instructions on label before use.

POTENTIAL HEALTH EFFECTS

Target organs : None reported by the manufacturer.

Routes of exposure : *Inhalation:* YES *Skin Absorption:* YES *Skin & Eyes:* YES *Ingestion:* YES

Potential acute health effects :

Eyes: Causes eye irritation. May cause conjunctivitis, irritation, and inflammation of mucous membranes. May cause burning sensation, redness and tearing (watering). Possible severe irritation.

Skin: Irritating to skin. Possible irritation, defatting or dermatitis (rash). Components of the product may be absorbed into the body through the skin. May cause central nervous system depression.

Inhalation: Can cause irritation of the respiratory tract. Prolonged exposure to vapors may be harmful to health. If higher concentrations are inhaled, additional symptoms may include coughing, shortness of breath, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. May cause mucous membrane irritation. Other adverse effects : Asphyxia. Severe lung irritation or lung damage, loss of appetite. Sanding and grinding dusts may be harmful if inhaled. Contains particles which may cause lung damage if inhaled in large quantities.



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Ingestion: Lung aspiration hazard. This product may be aspirated (inhaled) into the lungs during ingestion. May cause lung inflammation. May cause mucous membrane irritation. Ingestion may cause symptoms similar to inhalation. May cause gastrointestinal irritation. Gastrointestinal irritation may include abdominal pain, nausea, diarrhea and vomiting. Other adverse effects : intoxication.

Potential chronic health effects

: Prolonged skin contact may defat the skin and produce dermatitis. Harmful by skin absorption. May cause central nervous system depression. Prolonged inhalation of vapors may cause lung damage, including chronic bronchitis.

Medical conditions aggravated by overexposure

: None expected, when used as intended.

Additional health hazards

: None reported by the manufacturer.

Potential environmental effects

: None reported by the manufacturer.

SECTION 4 - FIRST AID MEASURES

- Inhalation** : If breathed in, move person into fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Seek immediate medical attention/advice.
- Skin contact** : Flush with plenty of water. Wash off with soap and plenty of water. Remove and wash contaminated clothing before re-use. If irritation persists, seek prompt medical attention.
- Eye contact** : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If irritation persists, seek prompt medical attention.
- Ingestion** : Call a physician or Poison Control Centre immediately. Do NOT induce vomiting. Guard against aspiration into lungs by having the individual turn on their left side.
- Notes For Physician** : Treat symptomatically.

SECTION 5 - FIRE FIGHTING MEASURES

Fire hazards/conditions of flammability

: Not flammable under normal conditions of handling. This product will not burn, due to its water content.

Flammability classification (OSHA 29 CFR 1910.1200)

: OSHA Combustible Liquid IIIB.

Flash point

: Not available.

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

: Dry chemical, foam, carbon dioxide and water fog.

Explosion data: Sensitivity to mechanical impact / static discharge

: Not expected to be sensitive to mechanical impact or static discharge.

Special fire-fighting procedures/equipment

: Firefighters should wear an approved full-face, self-contained breathing apparatus (SCBA) and impervious clothing. Water may be ineffective on fire, but may be helpful in cooling unburned containers. Do not use a solid water stream as it may scatter and spread fire. If water is used, fog nozzles are preferable.

Hazardous combustion products

: Oxides of carbon, nitrogen, and sulphur. Oxygen. Acrid fumes, toxic gases.

Oxidizing properties

: None reported by the manufacturer.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

- Personal precautions** : All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Avoid breathing vapors. Wear resistant clothing and boots.
- Environmental precautions** : Prevent product from entering drains, sewers, waterways and soil.



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- Spill response/cleanup** : Eliminate all ignition sources if safe to do so. Ventilate area of release. Use only non-sparking tools and equipment in the clean-up process. 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).
- Containment** : Should not be released into the environment. Recover free liquid or cover with inert absorbent material and place into appropriate container for disposal.

SECTION 7 - HANDLING AND STORAGE

- Safe Handling procedures** : Use with adequate ventilation. Avoid breathing vapor or mist. Avoid contact with skin and eyes. Wash hands thoroughly after using this product, and before eating, drinking or smoking. Avoid breathing of dust created by cutting, sanding, or grinding. Sanding and grinding dusts may be harmful if inhaled. Do not re-use empty containers. Do not puncture container. Keep in properly labeled containers. Wear suitable protective equipment. Do not ingest. Keep out of direct sunlight.
- Storage requirements** : Store in a cool, dry, well-ventilated area. Keep away from excessive heat, open flames, sparks and other possible sources of ignition. Do not freeze. Keep container tightly closed when not in use. Store in upright position only. Keep out of the reach of children. Empty product containers may contain hazardous product residue. Store out of direct sunlight.
- Incompatible materials** : Oxidizing agents. Acids and bases. Aluminum. Ammonium salts. Other: magnesium, chlorinated rubber.
- 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** : Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits. Use explosion-proof equipment. Use non-sparking equipment. Discharge exhaust only in area away from ignition sources.
- Respiratory protection** : Use NIOSH/MSHA approved full-face respirator with an organic vapor cartridge if the recommended exposure limit is exceeded. In order to avoid inhalation of spray-mist and sanding dust, all spraying and sanding must be done wearing adequate respirator. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02.
- Skin protection** : Wear impervious gloves, such as neoprene or nitrile rubber.
- Eye / face protection** : Safety glasses with side-shields or chemical splash goggles.
- Other protective equipment** : Emergency showers and eyewash facilities should be nearby. Depending on conditions of use, safety shoes and additional protective clothing may also be necessary.
- 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 | : Color as per product name |
| Odor | : Not available. | Odor threshold | : Not available. |
| pH | : Not available. | | |
| Boiling point | : 100°C | Specific gravity | : 1.3 (No. 5363)
1.4 (No. 5367)
1.1 (No. 5385) |
| Melting/Freezing point | : Not available. | Coefficient of water/oil distribution | : Not available. |
| Vapor pressure (mmHg @ 20° C / 68° F) | : 760 (No. 5363, 5385)
0.06 - 760 (No. 5367) | Solubility in water | : Soluble |
| Vapor density (Air = 1) | : Heavier than air. | Evaporation rate (n-Butyl acetate = 1) | : Slower than n-butyl acetate |



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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-	
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:

All ingredients are listed on the TSCA Inventory, or are exempted materials.

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: D2B.

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





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References : Information obtained from sources including original supplier's Material Safety Data Sheet, and references including RTECS and CCOHS Cheminfo.

<p>Prepared for: Rosco Laboratories Inc. 52 Harbor View Avenue Stamford, CT, USA, 06902 Phone: (203) 708 8900 http://http://www.rosco.com/</p>	
<p>Prepared by: ICC The Compliance Center Inc. Canada: 1-888-977-4834 USA: 1-888-442-9628 http://www.thecompliancecenter.com</p>	

DISCLAIMER OF LIABILITY

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Preparation Date: January 3, 2007

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MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name : **OFF BROADWAY**
Off Broadway - Copper (No.5386)

Product Use : Paint

Chemical Family : Mixture.

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:* 1 *Reactivity:* 0

WHMIS Classes:



POISON



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>
Copper	7440-50-8	7.0 - 13.0	0.2 mg/m3 (fume); 1 mg/m3 (dusts and mists)	N/Av	0.1 mg/m3 (fume); 1 mg/m3 (dusts and mists)	N/Av
2-Butoxyethanol (Glycol Ether)	111-76-2	1.0 - 5.0	20 ppm	N/Av	50 ppm (240 mg/m3) (skin)	N/Av

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Liquid. Color as per product name. Irritating to eyes, respiratory system and skin. Harmful if inhaled or swallowed.

POTENTIAL HEALTH EFFECTS

Target organs : Reproductive system. Eyes, skin, respiratory system. Kidneys.

Routes of exposure : *Inhalation:* YES *Skin Absorption:* YES *Skin & Eyes:* YES *Ingestion:* YES

Potential acute health effects :

Eyes: Causes eye irritation. May cause conjunctivitis, irritation, and inflammation of mucous membranes. May cause burning sensation, redness and tearing (watering). Possible severe irritation.

Skin: Irritating to skin. Possible irritation, defatting or dermatitis (rash). Components of the product may be absorbed into the body through the skin. May cause central nervous system depression. Possible toxic effects if absorbed.



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Inhalation: Can cause irritation of the respiratory tract. If higher concentrations are inhaled, additional symptoms may include coughing, shortness of breath, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. May cause mucous membrane irritation. Other adverse effects: Asphyxia. Severe lung irritation or lung damage, loss of appetite. Sanding and grinding dusts may be harmful if inhaled. Contains particles which may cause lung damage if inhaled in large quantities. Very toxic in particulate form upon inhalation. May result in unconsciousness and possibly death.

Ingestion: Lung aspiration hazard. This product may be aspirated (inhaled) into the lungs during ingestion. May cause lung inflammation. May cause mucous membrane irritation. Ingestion may cause symptoms similar to inhalation. May cause gastrointestinal irritation. Gastrointestinal irritation may include abdominal pain, nausea, diarrhea and vomiting. Other adverse effects: intoxication. May cause central nervous system depression.

Potential chronic health effects

: Prolonged skin contact may defat the skin and produce dermatitis. Harmful by skin absorption. May cause central nervous system depression. Prolonged inhalation of vapors may cause lung damage, including chronic bronchitis. Contains a chemical which may cause kidney damage. This product contains: 2-butoxyethanol. May cause adverse reproductive effects. May cause skin sensitization.

Medical conditions aggravated by overexposure

: None expected, when used as intended.

Additional health hazards

: None reported by the manufacturer.

Potential environmental effects

: None reported by the manufacturer.

SECTION 4 - FIRST AID MEASURES

Inhalation : If breathed in, move person into fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Seek immediate medical attention/advice.

Skin contact : Flush with plenty of water. Wash off with soap and plenty of water. Remove and wash contaminated clothing before re-use. If irritation persists, seek prompt medical attention.

Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If irritation persists, seek prompt medical attention.

Ingestion : Call a physician or Poison Control Centre immediately. Do NOT induce vomiting. Guard against aspiration into lungs by having the individual turn on their left side.

Notes For Physician : Treat symptomatically.

SECTION 5 - FIRE FIGHTING MEASURES

Fire hazards/conditions of flammability

: Not flammable under normal conditions of handling. Toxic fumes may be released during a fire.

Flammability classification (OSHA 29 CFR 1910.1200)

: OSHA Combustible Liquid IIIB.

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

: Dry chemical, foam, carbon dioxide and water fog.

Explosion data: Sensitivity to mechanical impact / static discharge

: Not expected to be sensitive to mechanical impact or static discharge.

Special fire-fighting procedures/equipment

: Firefighters should wear an approved full-face, self-contained breathing apparatus (SCBA) and impervious clothing. Water may be ineffective on fire, but may be helpful in cooling unburned containers. Do not use a solid water stream as it may scatter and spread fire. If water is used, fog nozzles are preferable.

Hazardous combustion products

: Oxides of carbon, nitrogen, and sulphur. Oxygen. Acrid fumes, toxic gases, copper oxides.

Oxidizing properties

: None expected.



SECTION 6 - ACCIDENTAL RELEASE MEASURES

- Personal precautions** : All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Avoid breathing vapors. Wear resistant clothing and boots.
- Environmental precautions** : Prevent product from entering drains, sewers, waterways and soil.
- Spill response/cleanup** : Eliminate all ignition sources if safe to do so. Ventilate area of release. Use only non-sparking tools and equipment in the clean-up process. 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).
- Containment** : Should not be released into the environment. Recover free liquid or cover with inert absorbent material and place into appropriate container for disposal.

SECTION 7 - HANDLING AND STORAGE

- Safe Handling procedures** : Use with adequate ventilation. Avoid breathing vapor or mist. Avoid contact with skin and eyes. Wash hands thoroughly after using this product, and before eating, drinking or smoking. Avoid breathing of dust created by cutting, sanding, or grinding. Sanding and grinding dusts may be harmful if inhaled. Do not re-use empty containers. Do not puncture container. Keep in properly labeled containers. Wear suitable protective equipment. Do not ingest.
- Storage requirements** : Store in a cool, dry, well-ventilated area. Keep away from excessive heat, open flames, sparks and other possible sources of ignition. Do not freeze. Keep container tightly closed when not in use. Store in upright position only. Keep out of the reach of children. Empty product containers may contain hazardous product residue. Keep away from oxidizing materials.
- Incompatible materials** : Oxidizing agents. Acids and bases. Aluminum. Ammonium salts. Other: magnesium, chlorinated rubber. Strong acids, bases and oxidizing or reducing agents.
- 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** : Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits. Use explosion-proof equipment. Use non-sparking equipment. Discharge exhaust only in area away from ignition sources.
- Respiratory protection** : Use NIOSH/MSHA approved full-face respirator with an organic vapor cartridge if the recommended exposure limit is exceeded. In order to avoid inhalation of spray-mist and sanding dust, all spraying and sanding must be done wearing adequate respirator. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02.
- Skin protection** : Gloves impervious to the material are recommended.
- Eye / face protection** : Safety glasses with side-shields or chemical splash goggles.
- Other protective equipment** : Emergency showers and eyewash facilities should be nearby. Depending on conditions of use, safety shoes and additional protective clothing may also be necessary.
- 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 | : Color as per product name |
| Odor | : Not available. | Odor threshold | : Not available. |
| pH | : Not available. | | |



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- Boiling point** : 100 May cause sensitization of susceptible persons. °C
- Specific gravity** : 1.12
- Melting/Freezing point** : Not available.
- Coefficient of water/oil distribution** : Not available.
- Vapor pressure (mmHg @ 20° C / 68° F)** : 0.5
- Solubility in water** : Soluble
- Vapor density (Air = 1)** : Heavier than air.
- Evaporation rate (n-Butyl acetate = 1)** : Slower than n-butyl acetate
- Volatile organic Compounds (VOC's) (lbs/gal;g/l)** : 1.02 / 122.90
- Volatiles (% by weight)** : 65.16
- Viscosity** : Not available.
- Special Remarks On Fire Hazards** : Not flammable under normal conditions of use. This product will not burn, due to its water content. May spatter if the temperature exceeds the boiling point. Vapors may irritate eyes. May irritate skin.

SECTION 10 - REACTIVITY AND STABILITY DATA

- Stability and reactivity** : Stable under normal conditions.
- Hazardous polymerization** : Will not occur.
- Conditions to avoid** : High temperatures. Keep away from excessive heat, open flames, sparks and other possible sources of ignition. Oxidizing agents. Do not freeze.
- Materials To Avoid And Incompatibility** : See Section 7 (Handling and Storage) section for further details.
- Hazardous decomposition products** : See hazardous combustion products.

SECTION 11 - TOXICOLOGICAL INFORMATION

<u>Ingredients</u>	<u>LC50(4hr)</u>	<u>LD50</u>	
	<u>inh, rat</u>	<u>oral</u>	<u>dermal</u>
Copper	N/Av	N/Av	N/Av
2-Butoxyethanol (Glycol Ether)	450 ppm/4H (rat)	470 mg/kg (rat); 320 mg/kg (rabbit)	400 mg/kg (rabbit)

- 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** : Contains a chemical or chemicals which may cause male and/or female reproductive toxicity. This product contains: copper.
- Teratogenicity** : Not expected to be a teratogen.
- Mutagenicity** : Not expected to be mutagenic in humans.
- Reproductive Effects** : Contains a chemical or chemicals which may cause male and/or female reproductive toxicity. This product contains: copper.
- Irritancy** : Eyes, skin, respiratory system and digestive system.
- Sensitization to material** : Contains a chemical or chemicals which may cause skin sensitization. This product contains: copper.
- Synergistic materials** : None known.

SECTION 12 - ECOLOGICAL INFORMATION

- Environmental effects** : None known or reported by the manufacturer.
- Important environmental characteristics** : None known or reported by the manufacturer.



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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. Do not puncture or incinerate. Contact waste disposal services.

SECTION 14 - TRANSPORTATION INFORMATION

Table with 6 columns: Regulatory Information, UN Number, Shipping Name, Class, Packing Group, Label. Rows include TDG, 49CFR/DOT, ICAO/IATA, and IMDG with 'None' or 'Not regulated' entries and hazard labels.

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

All ingredients are listed on the TSCA Inventory, or are exempted materials. SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This product may be subject to SARA notification requirements, since it contains Toxic Chemical constituents above their de minimus concentrations. This product contains: Copper. CERCLA Reportable Quantity (RQ) (40 CFR 117.302): Copper (5,000 lbs/2270 kgs).

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): All ingredients are listed on the DSL, or are exempted materials. Canadian WHMIS Classification: D1A, D2A, D2B. 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.



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

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DISCLAIMER OF LIABILITY

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