



OFF BROADWAY

MSDS No.:5300 Series

MSDS Preparation Date: April 1, 2012

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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.



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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 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)

- : 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)

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

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