

MATERIAL SAFETY DATA SHEET



Date Issued: 09/30/2009
MSDS No: SC-111

SC-111

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SC-111

GENERAL USE: Polyurethane coatings

MANUFACTURER

BJB Enterprises, Inc.
14791 Franklin Avenue
Tustin, CA 92780

Customer Service Number: (714) 734-8450

Fax: (714) 734-8929

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (US Transportation): (800) 424-9300
or (703) 527-3887

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE AND ODOR: Off-white liquid with a slightly musty odor.

IMMEDIATE CONCERNS: Combustible. Keep away from heat and sources of ignition. Avoid eye and skin contact. Avoid breathing vapors. May cause eye and skin irritation. Use in well ventilated areas. Reacts slowly with water to produce carbon dioxide which may rupture closed containers. This reaction accelerates at higher temperatures.

Inhalation at levels above the occupational exposure limit could cause respiratory sensitization and risk of serious damage to respiratory system. The onset of the respiratory symptoms may be delayed for several hours after exposure. A hyper-reactive response to even minimal concentrations of diisocyanates may develop in sensitized persons.

POTENTIAL HEALTH EFFECTS

EYES: May cause moderate irritation, burning sensation, tearing, redness, and swelling. Overexposure may cause lacrimation, conjunctivitis, corneal damage and permanent injury.

SKIN: May cause irritation and possible allergic sensitivity. Skin inflammation is characterized by itching, scaling, or reddening.

INGESTION: May cause irritation with symptoms including abdominal pain, nausea, vomiting, and diarrhea.

INHALATION: Causes irritation to the nose and throat. Concentrations above recommended exposure levels may cause headache, dizziness, nausea, shortness of breath, and vomiting. Higher concentrations may cause central nervous system depression and unconsciousness.

MEDICAL CONDITIONS AGGRAVATED: Pre-existing disorders of the following organs may be aggravated by exposure to this material: skin, lung (for example, asthma-like conditions), liver, and kidney. A hyper-reactive response to even minimal concentrations of isocyanates may develop in sensitized persons. Medical supervision of all employees who handle or come in contact with isocyanates is recommended.

ROUTES OF ENTRY: Eye and skin contact, inhalation of vapors, or accidental ingestion.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt. %	CAS
N-Methylpyrrolidone	5 - 10	872-50-4
Urea formaldehyde	1 - 5	9011-05-6
Benzene	0.1 - 1	71-43-2

4. FIRST AID MEASURES

EYES: Immediately rinse with water. Remove contact lenses. Hold eyelids apart and flush eyes with water for at least 15 minutes. Get immediate medical attention.

SKIN: Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

INGESTION: If swallowed, call a physician immediately. Do NOT induce vomiting. Provided the patient is conscious, wash out mouth with water. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

NOTES TO PHYSICIAN: Symptomatic and supportive therapy as needed. Following severe exposure medical follow-up should be monitored for at least 48 hours.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: > 93.3°C (200°F) Pensky-Martens CC

GENERAL HAZARD: Combustible

EXTINGUISHING MEDIA: Carbon dioxide or dry chemical.

EXPLOSION HAZARDS: Do not reseal containers if contaminated with water, resin will react with water to release carbon dioxide. As a result of the water contamination, pressure will build up in the sealed container causing it to rupture.

FIRE FIGHTING PROCEDURES: Cool fire exposed containers with water spray. Remove containers from the fire area if possible. Do not release runoff from fire control methods to sewers or waterways.

FIRE FIGHTING EQUIPMENT: Firefighters should wear positive pressure self-contained breathing apparatus (SCBA) and consider use of unmanned hose holders or monitor nozzles for fighting large fires.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Eliminate sources of ignition. Evacuate the area. Clean-up should only be performed by trained personnel. People dealing with a major spill should wear full protective clothing including appropriate respiratory protection. Prevent product spill from entering sewers or waterways. Neutralize small spills with a decontaminant.

LARGE SPILL: Contain and absorb large spills onto an inert, non-flammable adsorbent carrier (earth or sand). Do not use combustible materials such as saw dust. Use only spark resistant and explosion proof recovery devices. Shovel into open-top drums or plastic bags for further decontamination, if necessary. Wash the spill area clean with a liquid decontaminant. Remove and properly dispose of residues. Notify applicable government authorities if release is reportable. (See CERCLA in Section 15).

RELEASE NOTES: US regulations require reporting spills of this material that could reach any surface waters. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Combustible liquid. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Avoid breathing vapor over open containers. Avoid open container exposure to damp air. Avoid breathing aerosols, mists, and vapors.

HANDLING: Use appropriate personal protective equipment as specified in Section 8. Handle in a well ventilated area. Handle and use in a manner consistent with good industrial/manufacturing techniques and practices.

STORAGE: Store in a cool, dry place, away from excessive heat, in original or similar container. Avoid unnecessary contact. Material **must** be kept above 50 degrees F (10 degrees C). **DO NOT ALLOW TO FREEZE.** Containers should be tightly sealed to prevent contamination with foreign materials.

SHELF LIFE: 12 months from date of shipment under manufacturers recommended storage conditions.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		SupplierOEL	
Chemical Name		ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
N-Methylpyrrolidone	TWA	NE	NE	NE	NE	NE	NE
	STEL	NE	NE	NE	NE	NE	NE
Urea formaldehyde	TWA	NE	NE	NE	NE	NE	NE
	STEL	NE	NE	NE	NE	NE	NE
Benzene	TWA	1 ^[1]	NE ^[1]	0.5	NE	NE	NE
	STEL	5	NE	2.5	NE	NE	NE
OSHA TABLE COMMENTS:							
1. Carcinogen							

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Safety goggles or glasses are recommended. Plastic face shields should be used for complete face protection to protect against possible splashing or spraying of material. ANSI Z87.1 or approved equivalent.

SKIN: Chemical-resistant gloves and chemical goggles, face-shield, and synthetic apron or coveralls should be used to prevent contact with eyes, skin, or clothing. Wear nitrile or neoprene gloves. Chemical resistant gloves lined with polyethylene offer maximum protection.

RESPIRATORY: Exhaust ventilation recommended. An organic vapor cartridge or fresh air supplied respirator (NIOSH approved) may be necessary for certain applications. Consider the type of application, environmental concentrations, and other materials being used concurrently when determining respirator use and selection. Observe OSHA regulations for respirator use (29 CFR 1910.134).

PROTECTIVE CLOTHING: Protective clothing should be selected and used in accordance with 'Guidelines for the Selection of Chemical Protective Clothing' published by ACGIH.

WORK HYGIENIC PRACTICES: Contaminated clothing should be changed and washed before reuse. Eating, drinking and smoking in immediate work area should be prohibited. Wash hands before eating.

OTHER USE PRECAUTIONS: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Training is important. Follow all label precautions.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Slightly musty

COLOR: Off-white

PERCENT VOLATILE: Not Established

VAPOR PRESSURE: < 10 mmHg at 25°C (77°F)

VAPOR DENSITY: 8.5 (Air=1)

BOILING POINT: > 148.8°C (300°F)

FLASHPOINT AND METHOD: > 93.3°C (200°F) Pensky-Martens CC

SOLUBILITY IN WATER: Insoluble, reacts slowly with water

SPECIFIC GRAVITY: 1.040 (water=1) at 25°C (77°F)

VISCOSITY: 55 Centipoise at 25°C (77°F)

VOC (Volatile Organic Compound): 52.000 g/l Calculated

10. STABILITY AND REACTIVITY

STABILITY: This product is stable under the recommended storage conditions.

POLYMERIZATION: May occur under certain conditions.

CONDITIONS TO AVOID: High temperatures, sparks, open flames, oxidizers, moisture and extended exposure over 85 F.

INCOMPATIBLE MATERIALS: Alcohols, amines, strong bases (alkali, ammonia), acids, metal compounds, moisture or water.
Resin reacts with water to give off carbon dioxide.

11. TOXICOLOGICAL INFORMATION**TOXICITY TO ANIMALS**

Chemical Name	ORAL LD ₅₀ (rat)	DERMAL LD ₅₀ (rabbit)	INHALATION LC ₅₀ (rat)
N-Methylpyrrolidone	4990 mg/kg	8 mg/kg	> 5.1 mg/l (4 h)
Urea formaldehyde	8394 mg/kg	> 2200 mg/kg	> 167 mg/m ³ (4 h)
Benzene	1800 mg/kg	48 mg/kg	10000 ppm (7h)

CARCINOGENICITY

Chemical Name	NTP Status	IARC Status
Benzene	1	1

IARC: This product contains substances that are classified as carcinogens to humans.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: No specific ecological data are available for this product. Refer to Section 6 for information regarding accidental release and Section 15 for regulatory reporting information.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: The generation of waste should be avoided or minimized wherever possible. Disposal should be in accordance with local, state, provincial or national regulations.

EMPTY CONTAINER: Containers must be emptied (as defined by RCRA, 40 CFR Section 261.7 or state regulations that may be more stringent) and either passed to an approved recycler or destroyed.

14. TRANSPORT INFORMATION**DOT (DEPARTMENT OF TRANSPORTATION) LAND**

NOTE: Not Regulated

AIR (ICAO/IATA): Not Regulated

VESSEL (IMO/IMDG): Not Regulated

15. REGULATORY INFORMATION**UNITED STATES****SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

311/312 HAZARD CATEGORIES: Acute health hazard. Chronic health hazard

313 REPORTABLE INGREDIENTS: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

EPCRA SECTION 313 SUPPLIER NOTIFICATION

Chemical Name	Wt.%	CAS
N-Methylpyrrolidone	5 - 10	872-50-4
Benzene	0.1 - 1	71-43-2

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: For this/these chemicals, release of more than the Reportable Quantity to the environment in a 24-hour period requires notification to the National Response Center (800-424-8802 or 202-426-2675):

Chemical Name	Wt.%	CERCLA RQ
Benzene	0.1 - 1	10

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA STATUS: This product or its components are listed in or exempt from the TSCA inventory requirements.

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)

29 CFR1910.119---PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS CHEMICALS: None of the chemicals in this product are considered highly hazardous by OSHA.

REGULATIONS

STATE REGULATIONS: California Proposition 65: This product contains chemical(s) which are known to the State of California to cause cancer, birth defects or other reproductive harm, and may be subject to the requirements of California Proposition 65 (CA Health & Safety Code Section 25249.5):

CALIFORNIA PROPOSITION 65

Chemical Name	Wt.%	Listed
N-Methylpyrrolidone	5 - 10	<ul style="list-style-type: none"> ● Cancer ● Developmental Toxicity
Benzene	0.1 - 1	<ul style="list-style-type: none"> ● Cancer ● Developmental Toxicity ● Male Reproductive

OSHA HAZARD COMM. RULE: The contents of the MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

16. OTHER INFORMATION

REASON FOR ISSUE: New Issue

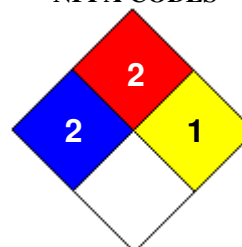
APPROVED BY: Michael Rose **TITLE:** R & D Manager

PREPARED BY: Gus Alidad

HMIS RATING

HEALTH:	*	2
FLAMMABILITY:		2
PHYSICAL HAZARD:		1
PERSONAL PROTECTION: X		

NFPA CODES



HMIS RATINGS NOTES: Personal Protection: See Section 8

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