

**COMPANY IDENTITY:** PACKAGING SERVICE CO., INC.  
**PRODUCT IDENTITY:** CROWN EPOXY THINNER  
**NEW MSDS DATE:** 10/18/2007

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## MATERIAL SAFETY DATA SHEET

This Material Safety Data Sheet conforms to the requirements of ANSI Z400.1, using the International Chemical Safety Cards of the Global Harmonizing System. THIS MSDS COMPLIES WITH 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD). IMPORTANT: Read this MSDS before handling & disposing of this product. Pass this information on to employees, customers, & users of this product.

### SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

**PRODUCT IDENTITY:** CROWN EPOXY THINNER  
**COMPANY IDENTITY:** PACKAGING SERVICE CO., INC.  
**COMPANY ADDRESS:** 1904 MYKAWA ROAD  
**COMPANY CITY:** PEARLAND, TX 77581  
**COMPANY PHONE:** 1-281-485-1458  
**CHEMTREC PHONE:** 1-800-424-9300

### SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

#### CONTAINS:

40-50%	XYLENES (1330-20-7) [215-535-7]
25-35%	METHYL ISOBUTYL KETONE (108-10-1) [203-550-1]
20-30%	ISOPROPANOL (67-63-0) [200-661-7]
5-15%	ETHYLBENZENE (100-41-4) [202-849-4]

Number in parentheses is CAS #, number in brackets is European EC #.

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### SECTION 3. HAZARDS IDENTIFICATION

**EXPOSURE PREVENTION:** STRICT HYGIENE! PREVENT DISPERSION OF MISTS OR DUST! AVOID EXPOSURE OF (PREGNANT) WOMEN!

#### RISK STATEMENTS:

R36/37/38	Irritating to eyes, respiratory system and skin.
R20/65	Harmful by inhalation, may cause lung damage if swallowed.
R11	Highly Flammable.
R20/21	Harmful by inhalation and in contact with skin.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapors may cause drowsiness and dizziness.

#### SAFETY STATEMENTS:

S24/25	Avoid contact with skin and eyes.
S7	Keep container tightly closed.
S9	Keep container in a well-ventilated place.
S16	Keep away from sources of ignition. No smoking.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S29	Do not empty into drains.
S62	If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

### SECTION 4. FIRST AID MEASURES

**EYE CONTACT:** For eyes, flush with plenty of water for 15 minutes & get medical attention.

**SKIN CONTACT:** In case of contact with skin immediately remove contaminated clothing. Wash thoroughly with soap & water. Wash contaminated clothing before reuse.

**INHALATION:** After high vapor exposure, remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, trained personnel should immediately begin artificial respiration. If the heart has stopped, trained personnel should immediately begin cardiopulmonary resuscitation (CPR).

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**SWALLOWING:** Rinse mouth. Give a slurry of activated charcoal in water to drink. Do NOT induce vomiting. GET MEDICAL ATTENTION IMMEDIATELY. Rest. Do NOT give liquids to an unconscious or convulsing person.

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## **SECTION 5. FIRE FIGHTING MEASURES**

**FIRE & EXPLOSION PREVENTIVE MEASURES:** NO open flames, NO sparks, & NO smoking. Above flash point, use a closed system, ventilation, explosion-proof electrical equipment, lighting. Do NOT use compressed air for filling, discharging, or handling.

**EXTINGUISHING MEDIA:** Use dry powder, AFFF, alcohol-resistant foam, water spray, water in large amounts, carbon dioxide.

**SPECIAL FIRE FIGHTING PROCEDURES:** Water spray may be ineffective on fire but can protect fire-fighters & cool closed containers. Use fog nozzles if water is used. Do not enter confined fire-space without full bunker gear. (Helmet with face shield, bunker coats, gloves & rubber boots). Use NIOSH approved positive-pressure self-contained breathing apparatus.

**UNUSUAL EXPLOSION AND FIRE PROCEDURES:** HIGHLY FLAMMABLE!! VAPORS CAN CAUSE FLASH FIRE Keep container tightly closed. Isolate from oxidizers, heat, sparks, electric equipment & open flame. Closed containers may explode if exposed to extreme heat. Applying to hot surfaces requires special precautions. Empty container very hazardous! Continue all label precautions!

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

**PERSONAL PROTECTIVE MEASURES:** Vapors may ignite explosively & spread long distances. Prevent vapor buildup. Keep unprotected personnel away. Ventilate spill area. Remove all ignition sources. Filter respirator for organic vapors.

**CONTAINMENT AND CLEAN-UP MEASURES:** Stop spill at source. Dike and contain. Collect leaking liquid in sealable containers. Absorb remaining liquid in sand or inert absorbent. Remove to safe place. Do NOT wash away into sewer. Do NOT let this chemical enter the environment.

## **SECTION 7. HANDLING AND STORAGE**

**HANDLING:** Isolate from oxidizers, heat, sparks, electric equipment & open flame. Use only with adequate ventilation. Avoid breathing of vapor or spray mist. Avoid contact with skin & eyes. Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier. Wear gloves, apron & footwear impervious to this material. Wash clothing before reuse. Avoid free fall of liquid. Ground containers when transferring. Do not flame cut, saw, drill, braze, or weld. Empty container very hazardous! Continue all label precautions!

**STORAGE:** Keep in fireproof surroundings. Keep separated from strong oxidants, strong acids. Keep cool. Do not store above 49 C/120 F. Keep container tightly closed & upright when not in use to prevent leakage.

## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION:**

**RESPIRATORY EXPOSURE CONTROLS:** A respiratory protection program that meets OSHA 29 CFR 1910.134 and ANSI Z86.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

### **VENTILATION**

LOCAL EXHAUST:	Necessary
MECHANICAL (GENERAL):	Acceptable
SPECIAL:	None
OTHER:	None

Please refer to ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details.

**PERSONAL PROTECTIONS:** Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier. Wear gloves, apron & footwear impervious to this material. Wash clothing before reuse.

**WORK & HYGIENIC PRACTICES:** Provide readily accessible eye wash stations & safety showers. Wash at end of each workshift & before eating, smoking or using the toilet. Promptly remove clothing that becomes contaminated. Destroy contaminated leather articles. Launder or discard contaminated clothing.

### SECTION 9. PHYSICAL DATA

APPEARANCE:	Liquid, Water-White
ODOR:	Ketone
BOILING RANGE:	82 121 142 C / 181 250 288 F
AUTO IGNITION TEMPERATURE:	398 C / 750 F (Lowest Component)
LOWER FLAMMABLE LIMIT IN AIR (% by vol):	1.4
FLASH POINT (TEST METHOD):	13 C / 56 F (TCC)
FLAMMABILITY CLASSIFICATION:	Class I B
GRAVITY @ 68/68 F / 20/20 C :	
API:	38.2
SPECIFIC GRAVITY (Water=1):	0.834
POUNDS/GALLON:	6.945
VOC'S (>0.44 Lbs/Sq In):	100.0 Vol. % / 833.8 g/L / 6.945 Lbs/Gal
TOTAL VOC'S (TVOC):	100.0 Vol. % / 833.8 g/L / 6.945 Lbs/Gal
NONEXEMPT VOC'S (CVOC):	100.0 Vol. % / 833.8 g/L / 6.945 Lbs/Gal
HAZARDOUS AIR POLLUTANTS (HAPS):	76.4 Wt. % / 637.0 g/L / 5.306 Lbs/Gal
VAPOR PRESSURE (mm of Hg) @ 20 C	17.5
NONEXEMPT VOC PARTIAL PRESSURE (mm of Hg @ 20 C)	17.5
VAPOR DENSITY (air=1):	3.1
WATER ABSORPTION:	Appreciable
REFRACTIVE INDEX:	1.442

### SECTION 10. STABILITY & REACTIVITY

**STABILITY:** Stable under normal conditions.

**CONDITIONS TO AVOID:** Isolate from oxidizers, heat, sparks, electric equipment & open flame.

**MATERIALS TO AVOID:** The substance can presumably form explosive peroxides under the influence of light and air. Check for peroxide prior to distillation, eliminate if found. Reacts violently with strong oxidants, strong reducing agents, strong acids, causing fire & explosion hazard. Attacks many plastics, coatings.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon Monoxide, Carbon Dioxide from burning.

**HAZARDOUS POLYMERIZATION:** Will not occur.

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### SECTION 11. TOXICOLOGICAL INFORMATION

MATERIAL	CAS #	TWA (OSHA)	TLV (ACGIH)	HAP
Xylenes	1330-20-7	100 ppm	100 ppm A4	Yes
Methyl Isobutyl Ketone	108-10-1	100 ppm	50 ppm	Yes
Isopropanol	67-63-0	400 ppm	200 ppm A4	No
Ethylbenzene	100-41-4	100 ppm	100 ppm A3	Yes

In addition to EPA Hazardous Air Pollutants showing 'Yes' under "HAP" above, using manufacturers' data, based on EPA Method 311, the following EPA Hazardous Air Pollutants may be present in trace amounts (less than 0.1%): Benzene, Toluene, Cumene.

MATERIAL	CAS #	CEILING	STEL (OSHA/ACGIH)
Xylenes	1330-20-7	None Known	150 ppm
Methyl Isobutyl Ketone	108-10-1	None Known	75 ppm
Isopropanol	67-63-0	None Known	400 ppm
Ethylbenzene	100-41-4	None Known	125 ppm

### ACUTE HAZARDS

**EYE & SKIN CONTACT:** Primary irritation to skin, defatting, dermatitis. Absorption thru skin increases exposure. Primary irritation to eyes, redness, tearing, blurred vision. Liquid can cause eye irritation. Wash thoroughly after handling.

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**INHALATION:** Anesthetic. Irritates respiratory tract. Acute overexposure can cause serious nervous system depression. Vapor harmful. Breathing vapor can cause irritation. Acute overexposure can cause harm to kidneys, blood, nerves, liver, lungs. Use of alcoholic beverages enhances the harmful effect.

**SWALLOWING:** Harmful or fatal if swallowed. Swallowing can cause abdominal irritation, nausea, vomiting & diarrhea. The symptoms of chemical pneumonitis may not show up for a few days.

#### **SUBCHRONIC HAZARDS/CONDITIONS AGGRAVATED**

**CONDITIONS AGGRAVATED:** Chronic overexposure can cause harm to kidneys, blood, nerves, liver, lungs. Persons with severe skin, liver or kidney problems should avoid use.

#### **CHRONIC HAZARDS**

**CANCER, REPRODUCTIVE & OTHER CHRONIC HAZARDS:** Potential Cancer Hazard based on tests with laboratory animals using Ethylbenzene. Overexposure may create cancer risk. Leukemia been reported in humans from Benzene. This product contains less than 52 ppm of Benzene. Not considered hazardous in such low concentrations. Absorption thru skin may be harmful. Studies with laboratory animals indicate this product can cause damage to fetus. Depending on degree of exposure, periodic medical examination is indicated. Some persons may be more sensitive to the substance's effect on blood cells.

### **SECTION 12. ECOLOGICAL INFORMATION**

#### **MAMMALIAN INFORMATION:**

<b>MATERIAL</b>	<b>CAS #</b>	<b>LOWEST KNOWN LETHAL DOSE DATA</b>
Methyl Isobutyl Ketone	108-10-1	LOWEST KNOWN LD50 (ORAL) 2080.0 mg/kg(Rats)
Methyl Isobutyl Ketone	108-10-1	LOWEST KNOWN LC50 (VAPORS) 4000 ppm (Rats)

**AQUATIC ANIMAL INFORMATION:** The most sensitive known aquatic group to any component of this product is: Chub 1000 ppm or mg/L (24 hour exposure). Keep out of sewers and natural water supplies. The substance is toxic to aquatic organisms.

**MOBILITY:** This material is a mobile liquid.

**DEGRADABILITY:** This product is partially biodegradable.

**ACCUMULATION:** This product does not accumulate or biomagnify in the environment.

### **SECTION 13. DISPOSAL CONSIDERATIONS**

Processing, use or contamination may change the waste management options. Recycle / dispose of observing national, regional, state, provincial and local health, safety & pollution laws. If in doubt, contact appropriate agencies.

### **SECTION 14. TRANSPORT INFORMATION**

DOT SHIPPING NAME: UN 1263, RQ,Paint Related Material (Contains: Xylene,Methyl Isobutyl Ketone), 3, PG-II  
DRUM LABEL: (FLAMMABLE LIQUID)  
IATA / ICAO: UN 1263, RQ,Paint Related Material (Contains: Xylene,Methyl Isobutyl Ketone), 3, PG-II  
IMO / IMDG: UN 1263, RQ,Paint Related Material (Contains: Xylene,Methyl Isobutyl Ketone), 3, PG-II  
EMERGENCY RESPONSE GUIDEBOOK NUMBER: 128

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### **SECTION 15. REGULATORY INFORMATION**

#### **EPA REGULATION:**

SARA SECTION 311/312 HAZARDS: Acute Health, Fire

All components of this product are on the TSCA list. SARA Title III Section 313 Supplier Notification. This product contains the indicated <\*> toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning & Community

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Right-To-Know Act of 1986 & of 40 CFR 372. This information must be included in all MSDSs that are copied and distributed for this material.

SARA TITLE III INGREDIENTS	CAS#	WT. % (REG. SECTION)	RQ(LBS)
*Xylenes	1330-20-7	<50 (311, 312, 313, RCRA)	100
*Methyl Isobutyl Ketone	108-10-1	<30 (311, 312, 313, RCRA)	5000
*Ethylbenzene	100-41-4	<20 (311, 312, 313, RCRA)	1000

> 239 LB / 108 KG OF THIS PRODUCT IN 1 CONTAINER EXCEEDS THE "RQ" OF XYLENES. Any release equal to or exceeding the RQ must be reported to the National Response Center (800-424-8802) and appropriate state and local regulatory agencies as described in 40 CFR 302.6 and 40 CFR 355.40 respectively. Failure to report may result in substantial civil and criminal penalties. State & local regulations may be more restrictive than federal regulations.

**STATE REGULATIONS:** CALIFORNIA PROPOSITION 65: This product contains the following chemical known to the State of California to cause cancer: Ethylbenzene

**INTERNATIONAL REGULATIONS:** The components of this product are listed on the chemical inventories of the following countries: Australia, Canada, Europe (EINECS), Japan, Korea, United Kingdom.

#### **SECTION 16. OTHER INFORMATION**

**HAZARD RATINGS:**

HEALTH (NFPA): 2      HEALTH (HMIS): 2      FLAMMABILITY: 3      REACTIVITY: 0  
This information is intended solely for the use of individuals trained in the NFPA & HMIS hazard rating systems.

**EMPLOYEE TRAINING:** See Section 3 for Risk & Safety Statements. Employees should be made aware of all hazards of this material (as stated in this MSDS) before handling it.

**NOTICE:** The supplier disclaims all expressed or implied warranties of merchantability or fitness for a specific use, with respect to the product or the information provided herein, except for conformation to contracted specifications. All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency. Conditions of use are beyond our control, and therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product. Users also assume all risks in regards to the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process. Unless updated, this Material Safety Data Sheet is valid until 10/18/2010.