

COMPANY IDENTITY: PACKAGING SERVICE CO., INC.

DATE: 10/16/95

PRODUCT IDENTITY: CROWN LACQUER THINNER

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**MATERIAL SAFETY DATA SHEET**

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. CHEMICAL PRODUCT & COMPANY IDENTIFICATION / HAZARD RATINGS**

PRODUCT IDENTITY: CROWN LACQUER THINNER  
 COMPANY IDENTITY: PACKAGING SERVICE CO., INC.  
 COMPANY ADDRESS: 4702 SHANK ROAD  
 COMPANY CITY: PEARLAND, TX 77588-8875  
 COMPANY PHONE: 1-281-485-1457  
 CHEMTREC PHONE: 1-800-424-9300  
 PT1291

HAZARD RATINGS:  
 HEALTH (NFPA): 2  
 HEALTH (HMIS): 2  
 FLAMMABILITY: 3  
 REACTIVITY: 0

**SECTION 2. INGREDIENT & REGULATORY INFORMATION**

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 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)
Light Aliphatic Solvent Naphtha	*64742-89-8	Not Appl. (311,312)	None
*Toluene	108-88-3	<30 (311,312,313,RCRA)	1000
*Methanol	67-56-1	<30 (311,312,313,RCRA)	5000
Acetone	67-64-1	Not Appl. (311,312)	5000
*2-Butoxyethanol	111-76-2	< 5 (313)	None
*Methyl Ethyl Ketone	78-93-3	< 5 (311,312,313,RCRA)	5000

**SARA SECTION 311/312 HAZARDS: Acute Health, Chronic Health, Fire**

MATERIAL	CAS #	TWA (OSHA)	TLV (ACGIH)	HAP
Light Aliphatic Solvent Naphtha	*64742-89-8	500 ppm	300 ppm	No
Toluene	108-88-3	200 ppm	50 ppm	Yes
Methanol	67-56-1	200 ppm(S)	200 ppm(S)	Yes
Acetone	67-64-1	1000 ppm	750 ppm	No
2-Butoxyethanol	111-76-2	50 ppm(S)	25 ppm(S)	Yes
Methyl Ethyl Ketone	78-93-3	200 ppm	200 ppm	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, Mixed Xylenes, Ethylbenzene

MATERIAL	CAS #	CEILING	STEL (OSHA/ACGIH)
Light Aliphatic Solvent Naphtha	*64742-89-8	None Known	750 ppm
Methanol	67-56-1	None Known	250 ppm
Acetone	67-64-1	None Known	1000 ppm
Methyl Ethyl Ketone	78-93-3	None Known	300 ppm

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## SECTION 2. INGREDIENT &amp; REGULATORY INFORMATION (CONTINUED)

CALIFORNIA PROPOSITION 65: This product contains the following chemicals known to the State of California to cause cancer & reproductive toxicity:  
Benzene, Toluene

DOT SHIPPING NAME: Paint Related Material, 3, UN1263, PG-II

DRUM LABEL: (FLAMMABLE LIQUID)

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## SECTION 3. HAZARDS IDENTIFICATION

MATERIAL

MATERIAL	CAS #	LOWEST KNOWN LETHAL DOSE DATA
Ethylene Glycol Butyl Ether	111-76-2	LOWEST KNOWN LD50 (ORAL) 320.0 mg/kg (Rabbits)
Ethylene Glycol Butyl Ether	111-76-2	LOWEST KNOWN LC50 (VAPORS) 700 ppm (Mice)
Ethylene Glycol Butyl Ether	111-76-2	LOWEST KNOWN LD50 (SKIN) 440.0 mg/kg (Rabbits)

THRESHOLD LIMIT VALUE: 140 ppm (Evaporated Blend)

CONTAINS: LIGHT ALIPHATIC SOLVENT NAPHTHA, TOLUENE, METHANOL, ACETONE, 2-BUTOXYETHANOL, METHYL ETHYL KETONE

DANGER!!

EXTREMELY FLAMMABLE!! VAPORS CAN CAUSE FLASH FIRE

POISON!!

ACUTE HAZARDS

## EYE &amp; 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.

## INHALATION:

Anesthetic. Irritates respiratory tract. Acute overexposure

can cause serious nervous system depression. Vapor harmful.

Breathing vapor can cause irritation.

Acute overexposure can cause damage to kidneys, blood, nerves, liver &amp; lungs.

Repeated exposure over TLV can cause blindness.

## SWALLOWING: KEEP AWAY FROM FOOD!

Can be fatal or cause blindness if swallowed. Cannot be made non-poisonous.

POISON ! Can cause irreversible nervous system damage &amp; death..

Harmful or fatal if swallowed.

Swallowing can cause abdominal irritation, nausea, vomiting &amp; diarrhea.

## SUBCHRONIC HAZARDS/CONDITIONS AGGRAVATED

## CONDITIONS AGGRAVATED

Chronic overexposure can cause damage to kidneys, blood, nerves, liver & lungs.  
Persons with severe skin, liver or kidney problems should avoid use.

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## SECTION 3. HAZARDS IDENTIFICATION(CONTINUED)

## CHRONIC HAZARDS

## CANCER, REPRODUCTIVE &amp; OTHER CHRONIC HAZARDS:

This product has no carcinogens listed by IARC, NTP, NIOSH, OSHA or ACGIH, as of this date, greater or equal to 0.1%.

This product may contain less than 1 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.

## SECTION 4. FIRST AID MEASURES PROCEDURES

## 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.

(Discard contaminated shoes.)

## INHALATION:

After high vapor exposure, remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped give artificial respiration. CALL A PHYSICIAN immediately!

## SWALLOWING:

Induce vomiting promptly using physician's instructions or by having patient stick finger down throat. After vomiting has been induced, give two teaspoonsful of baking soda in a glass of water. CALL A PHYSICIAN. Never give anything by mouth to an unconscious person. Have patient lie down & keep warm. Cover eyes to exclude light..

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## SECTION 5. FIRE FIGHTING MEASURES

AUTO IGNITION TEMPERATURE : 290 C / 555 F (Lowest Component)

LOWER FLAMMABLE LIMIT IN AIR (% by vol): 2.9

FLASH POINT (TEST METHOD): -16 C / 2 F (TCC)

FLAMMABILITY CLASSIFICATION: Class I B

## EXTINGUISHING MEDIA

NFPA Class B extinguishers(Carbon Dioxide or foam)for Class I B liquid fires.

## 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

**EXTREMELY 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!

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SECTION 6. ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES

Stop spill at source. Dike area & contain. Clean up remainder with absorbent materials. Mop up & dispose of. Persons without proper protection should be kept from area until cleaned up.

WASTE DISPOSAL METHOD

Recycle or dispose of observing local, state & Federal health, safety & pollution laws. If questions exist, contact the appropriate agencies.

OTHER PRECAUTIONS

Vapors may ignite explosively & spread long distances. Prevent vapor buildup. Put out pilot lights & turn off heaters, electric equipment & other ignition sources during use & until all vapors are gone.

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. Do not get in eyes, on skin or clothing. 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

Vapors may ignite explosively & spread long distances. Prevent vapor buildup. Put out pilot lights & turn off heaters, electric equipment & other ignition sources during use & until all vapors are gone. Do not store above 49 C/120 F. Store large amounts in structures made for OSHA Class I B liquids. Keep container tightly closed & upright when not in use to prevent leakage.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

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EXPOSURE CONTROLS

Ventilate to keep vapors of this material below 70 ppm. If over TLV, in accordance with 29 CFR 1910.134, use NIOSH approved positive-pressure self-contained breathing apparatus. Consult Safety Equipment Supplier. Use explosion-proof equipment.

VENTILATION

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

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.

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## SECTION 9. PHYSICAL DATA

APPEARANCE :	Liquid, Water-White		
ODOR :	Ketone		
BOILING RANGE :	56 91 172 C / 133 196 342 F		
GRAVITY @ 60 F :			
API :	46.8		
SPECIFIC GRAVITY (Water=1) :	.794		
POUNDS/GALLON :	6.612		
VOC'S (>0.44 Lbs/Sq In) :	97.7 Vol. % /	775.7 g/L /	6.461 Lbs/Gal
TOTAL VOC'S (TVOC) :	100.0 Vol. % /	793.7 g/L /	6.611 Lbs/Gal
NONEXEMPT VOC'S (CVOC) :	80.0 Vol. % /	635.3 g/L /	5.292 Lbs/Gal
VAPOR PRESSURE (mm of Hg)@20 C	90.8		
NONEXEMPT VOC PARTIAL PRESSURE (mm of Hg @ 20 C)	51.7		
VAPOR DENSITY (air=1) :	2.1		
WATER ABSORPTION :	Appreciable		
% VOLATILE BY VOL :	100.0		
SOLVENCY PARAMETERS:			
HKB (Hydrogen Bonding) :	28.5		
PKB (Polarity) :	35.4		
DKB (Dispersion) :	36.1		
REFRACTIVE INDEX :	1.401		
MIXED ANILINE POINT (Acid Insol):	38 C / 101 F		

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## SECTION 10. REACTIVITY DATA

STABILITY

Stable

CONDITIONS TO AVOID

Isolate from oxidizers, heat, sparks, electric equipment &amp; open flame.

MATERIALS TO AVOID

Isolate from strong oxidizers such as permanganates, chromates &amp; peroxides.

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon Monoxide, Carbon Dioxide from burning.

HAZARDOUS POLYMERIZATION

Will not occur.

## 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.