

COMPANY IDENTITY: Packaging Service Co. Inc.
PRODUCT IDENTITY: Crown Lacquer Thinner
REVISION DATE: 08/6/2007

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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 Lacquer Thinner
COMPANY IDENTITY: PACKAGING SERVICE CO. INC.
COMPANY ADDRESS: 1904 MYKAWA ROAD
COMPANY CITY: PEARLAND, TX 77581
COMPANY PHONE: 1-281-485-5377
CHEMTREC PHONE: 1-800-424-9300

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

CONTAINS: 30-35% TOLUENE (108-88-3) [203-625-9],
25-35% LIGHT ALIPHATIC SOLVENT NAPHTHA (*64742-89-8),
15-25% ACETONE (67-64-1) [200-662-2],
10-15% METHANOL (67-56-1) [200-659-6],
0- 5% 2-BUTOXYETHANOL (111-76-2) [203-905-0]
Number in parentheses is CAS #, number in brackets is European EC #.

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SECTION 3. HAZARDS IDENTIFICATION

EXPOSURE PREVENTION: STRICT HYGIENE!
AVOID EXPOSURE OF (PREGNANT) WOMEN, ADOLESCENTS, CHILDREN!

RISK STATEMENTS:

R36/37/38 Irritating to eyes, respiratory system and skin.
R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R20/65 Harmful by inhalation, may cause lung damage if swallowed.
R12 Extremely Flammable.
R18 In use, may form flammable/explosive vapor-air mixture.
R22 Harmful if swallowed.
R41 Risk of serious damage to eyes.
R63 Possible risk of harm to the unborn child.
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.
S36/37 Wear suitable protective clothing and gloves.
S2 Keep out of the reach of children.
S7 Keep container tightly closed.
S9 Keep container in a well-ventilated place.
S16 Keep away from sources of ignition. No smoking.
S23 Do not breathe gas, fumes, vapor, or spray.
S29 Do not empty into drains.
S33 Take precautionary measures against static discharges.
S45 In case of accident, or if you feel unwell, seek medical advice immediately. (Show the label where possible).

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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).
CALL A PHYSICIAN immediately!

SWALLOWING:

Induce vomiting. GET MEDICAL ATTENTION IMMEDIATELY.
If no medical personnel are available & patient is conscious, ingestion of an alcoholic beverage may prevent blindness, death.
Do NOT induce vomiting 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

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!

SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTIVE MEASURES:

EVACUATE DANGER AREA! Consult an expert!
Vapors may ignite explosively & spread long distances. Prevent vapor buildup.
Keep unprotected personnel away. Ventilate spill area. Remove all ignition sources.
Use complete chemical protective suit with self-contained breathing apparatus.

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.

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

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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.

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SECTION 9. PHYSICAL DATA

APPEARANCE : Liquid, Water-White
ODOR : Ketone
BOILING RANGE : 56 95 172 C / 133 203 342 F
AUTO IGNITION TEMPERATURE : 290 C / 555 F (Lowest Component)
LOWER FLAMMABLE LIMIT IN AIR (% by vol): 2.5
FLASH POINT (TEST METHOD): -16 C / 2 F (TCC)
FLAMMABILITY CLASSIFICATION: Class I B
GRAVITY @ 68/68 F / 20/20 C :
API : 44.9
SPECIFIC GRAVITY (Water=1) : 0.802
POUNDS/GALLON : 6.681
VOC'S (>0.44 Lbs/Sq In) : 98 Vol. % / 786 g/L / 6.55 Lbs/Gal
TOTAL VOC'S (TVOC) : 100.0 Vol. % / 802.0 g/L / 6.680 Lbs/Gal
NONEXEMPT VOC'S (CVOC) : 79.0 Vol. % / 636.0 g/L / 5.298 Lbs/Gal
HAZARDOUS AIR POLLUTANTS (HAPS) : 45.5 Wt. % / 365 g/L / 3.040 Lbs/Gal
VAPOR PRESSURE (mm of Hg)@20 C 86.8
NONEXEMPT VOC PARTIAL PRESSURE (mm of Hg @ 20 C) 42.2
VAPOR DENSITY (air=1) : 2.3
WATER ABSORPTION : Appreciable
REFRACTIVE INDEX : 1.415

SECTION 10. STABILITY & REACTIVITY

STABILITY

Stable under normal conditions.

CONDITIONS TO AVOID

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

MATERIALS TO AVOID

Reacts violently with strong oxidants, 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
Toluene	108-88-3	200 ppm	50 ppm A4	Yes
Light Aliphatic Solvent Naphtha	*64742-89-8	500 ppm	300 ppm	No
Acetone	67-64-1	1000 ppm	500 ppm A4	No
Methanol	67-56-1	200 ppm S	200 ppm S	Yes
2-Butoxyethanol	111-76-2	50 ppm S	20 ppm S	No

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

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SECTION 11. TOXICOLOGICAL INFORMATION (CONTINUED)

MATERIAL	CAS #	CEILING	STEL (OSHA/ACGIH)
Light Aliphatic Solvent Naphtha	*64742-89-8	None Known	5.3E3 ppm
Acetone	67-64-1	None Known	750 ppm
Methanol	67-56-1	None Known	250 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.

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. Repeated exposure over TLV can cause blindness. Use of alcoholic beverages enhances the harmful effect.

SWALLOWING:

Can be fatal or cause blindness if swallowed. Cannot be made non-poisonous. POISON ! Can cause irreversible nervous system damage & death. 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:

Pregnant women should avoid use. May cause birth defects. Liver tumors have been reported in laboratory mice. Leukemia been reported in humans from Benzene. This product contains less than 134 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.

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SECTION 12. ECOLOGICAL INFORMATION

MAMMALIAN INFORMATION:

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)

AQUATIC ANIMAL INFORMATION:

The most sensitive known aquatic group to any component of this product is:
Tidewater Silversides 250 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

IF CONTAINER HAS > PRODUCT RQ (SEE SECTION 15) PUT "RQ," BEFORE SHIPPING NAME.
DOT SHIPPING NAME: Paint Related Material, 3, UN1263, PG-II
DRUM LABEL: (FLAMMABLE LIQUID)
IATA / ICAO: Flammable Liquids, Toxic, n.o.s.
(Toluene, Acetone), 3, (6.1), UN1992, PG-II
IMO / IMDG: Flammable Liquids, Toxic, n.o.s.
(Toluene, Acetone), 3, (6.1), UN1992, PG-II
EMERGENCY RESPONSE GUIDEBOOK NUMBER: 131

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SECTION 15. REGULATORY INFORMATION

EPA REGULATION:

SARA SECTION 311/312 HAZARDS: Acute Health, Chronic 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
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.

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SECTION 15. REGULATORY INFORMATION (CONTINUED)

SARA TITLE III INGREDIENTS	CAS#	WT. % (REG. SECTION)	RQ (LBS)
*Toluene	108-88-3	<40 (311,312,313,RCRA)	1000
Acetone	67-64-1	<30 (311,312)	5000
*Methanol	67-56-1	<20 (311,312,313,RCRA)	5000
*2-Butoxyethanol	111-76-2	< 3 (313)	None

> 7690 LB / 3495 KG OF THIS PRODUCT IN 1 CONTAINER EXCEEDS THE "RQ" OF TOLUENE.
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 reproductive toxicity: Toluene

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): 1, HEALTH (HMIS): 3, 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 05/25/2010.