

PACKAGING SERVICE CO., INC.

DATE: 07/1/01

PRODUCT IDENTITY: CROWN LACQUER THINNER

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NEW MSDS DATE: 07/1/2001

MATERIAL SAFETY DATA SHEET

This Material Safety Data Sheet conforms to the requirements of ANSI Z400.1.

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 / P O Box 875

COMPANY CITY: PEARLAND, TX 77581

COMPANY PHONE: 1-281-485-1458

CHEMTREC PHONE: 1-800-424-9300

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

CONTAINS: 25-35% LIGHT ALIPHATIC SOLVENT NAPHTHA (*64742-89-8),
25-35% METHANOL (67-56-1)[200-659-6],
20-30% ACETONE (67-64-1)[200-662-2],
15-25% TOLUENE (108-88-3)[203-625-9],
0- 5% 2-BUTOXYETHANOL (111-76-2)[203-905-0]

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

SECTION 3. HAZARDS IDENTIFICATION

RISK STATEMENTS:

R12 Extremely Flammable.
R18 In use, may form flammable/explosive vapor-air mixture.
R41 Risk of serious damage to eyes.
R65 Harmful: may cause lung damage if swallowed.
R36/37/38 Irritating to eyes, respiratory system and skin.
R39/25 Toxic: danger of very serious irreversible effects if swallowed.
R20/65 Harmful by inhalation, may cause lung damage if swallowed.

SAFETY STATEMENTS:

S7 Keep container tightly closed.
S9 Keep container in a well-ventilated place.
S16 Keep away from sources of ignition. No smoking.
S29 Do not empty into drains.
S45 In case of accident, or if you feel unwell, seek medical advice immediately. (Show the label where possible).
S24/25 Avoid contact with skin and eyes.

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 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 teaspoonfuls 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.

PT1291

SECTION 5. FIRE FIGHTING MEASURES

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!

SECTION 6. ACCIDENTAL RELEASE MEASURES

CONTAINMENT TECHNIQUES:

Stop spill at source. Dike area & contain.

CLEAN-UP PROCEDURES:

Clean up remainder with absorbent materials. Mop up & dispose of. Persons without proper protection should be kept from area until cleaned up.

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. OSHA Class I B liquids.

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

Use vapor, mist gas mask within use limits, or ventilate to keep vapors of this material below 75 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.

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: 56 87 172 C / 133 190 342 F
AUTO IGNITION TEMPERATURE: 290 C / 555 F (Lowest Component)
LOWER FLAMMABLE LIMIT IN AIR (% by vol): 3.2
FLASH POINT (TEST METHOD): -16 C / 2 F (TCC)
FLAMMABILITY CLASSIFICATION: Class I B
GRAVITY @ 60 F:
API: 47.0
SPECIFIC GRAVITY (Water=1): .793
POUNDS/GALLON: 6.604
VOC'S (>0.44 Lbs/Sq In): 97.8 Vol. % / 775.7 g/L / 6.461 Lbs/Gal
TOTAL VOC'S (TVOC): 100.0 Vol. % / 792.8 g/L / 6.603 Lbs/Gal
NONEXEMPT VOC'S (CVOC): 76.0 Vol. % / 602.7 g/L / 5.020 Lbs/Gal
HAZARDOUS AIR POLLUTANTS (HAPS): 49.1 Wt. % / 389.3 g/L / 3.242 Lbs/Gal
VAPOR PRESSURE (mm of Hg)@20 C 97.7
NONEXEMPT VOC PARTIAL PRESSURE (mm of Hg @ 20 C) 53.5
VAPOR DENSITY (air=1): 2.0
WATER ABSORPTION: Appreciable
REFRACTIVE INDEX: 1.393

SECTION 10. STABILITY & REACTIVITY

STABILITY

Stable

CONDITIONS TO AVOID

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

MATERIALS TO AVOID

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

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon Monoxide, Carbon Dioxide from burning.

HAZARDOUS POLYMERIZATION

Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

MATERIAL	CAS #	TWA (OSHA)	TLV (ACGIH)	HAP
Light Aliphatic Solvent Naphtha	*64742-89-8	500 ppm	300 ppm	No
Methanol	67-56-1	200 ppm S	200 ppm S	Yes
Acetone	67-64-1	1000 ppm	500 ppm A4	No
Toluene	108-88-3	200 ppm	50 ppm A4	Yes
2-Butoxyethanol	111-76-2	50 ppm S	20 ppm S	Yes

SECTION 11. TOXICOLOGICAL INFORMATION (CONTINUED)

MATERIAL	CAS #	CEILING	STEL (OSHA/ACGIH)
Light Aliphatic Solvent Naphtha	*64742-89-8	None Known	5.3E3 ppm
Methanol	67-56-1	None Known	250 ppm
Acetone	67-64-1	None Known	750 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 damage to kidneys, blood, nerves, liver & lungs.

Repeated exposure over TLV can cause blindness.

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.

SUBCHRONIC HAZARDS/CONDITIONS AGGREGATED

CONDITIONS AGGREGATED:

Chronic overexposure can cause damage to kidneys, blood, nerves, liver & lungs.

Persons with severe skin, liver or kidney problems should avoid use.

CHRONIC HAZARDS

CANCER, REPRODUCTIVE & OTHER CHRONIC HAZARDS:

Liver tumors have been reported in laboratory mice.

Leukemia been reported in humans from Benzene.

This product may contain less than 89 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 12. ECOLOGICAL INFORMATION**MAMMALIAN INFORMATION:**

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

AQUATIC ANIMAL INFORMATION:

The most sensitive known marine 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.

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

Recycle / dispose of observing national, regional, state, provincial and local
health, safety & pollution laws.

If questions exist, contact the appropriate agencies.

SECTION 14. TRANSPORT INFORMATION

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

DRUM LABEL: (FLAMMABLE LIQUID)

IATA / ICAO: Paint Related Material,3,UN1263,PG-II

IMO / IMDG: Paint Related Material,3,UN1263,PG-II

EMERGENCY RESPONSE GUIDEBOOK NUMBER: 128

SECTION 15. REGULATORY INFORMATION**STATE REGULATIONS:**

CALIFORNIA PROPOSITION 65: This product contains the following chemical known to
the State of California to cause reproductive toxicity: Toluene

SECTION 15. REGULATORY INFORMATION (CONTINUED)**EPA REGULATIONS:**

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.

SARA TITLE III INGREDIENTS	CAS#	WT. % (REG. SECTION)	RQ(LBS)
*Methanol	67-56-1	25-35 (311,312,313,RCRA)	5000
*Toluene	108-88-3	15-25 (311,312,313,RCRA)	1000
*2-Butoxyethanol	111-76-2	< 3 (313)	None

IF > 4796 POUNDS OF THIS PRODUCT IS IN ONE CONTAINER THE "RQ" OF TOLUENE IS EXCEEDED.

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

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.