

PACKAGING SERVICE CO., INC.

DATE: 10/01/01

PRODUCT IDENTITY: KRONA 100

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NEW MSDS DATE: 10/01/01

**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: KRONA 100

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),  
20-30%TOLUENE (108-88-3)[203-625-9],  
20-30%ACETONE (67-64-1)[200-662-2],  
20-30%METHANOL (67-56-1)[200-659-6],  
0- 5%ETHYLENE GLYCOL BUTYL ETHER (111-76-2)[203-905-0],  
0- 5%METHYL ETHYL KETONE (78-93-3)[201-159-0]

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

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**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.

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**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.

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**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 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.

**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 91 172 C / 133 196 342 F  
 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  
 GRAVITY @ 60 F:  
     API: 46.5  
     SPECIFIC GRAVITY (Water=1): .795  
     POUNDS/GALLON: 6.622  
 VOC'S (>0.44 Lbs/Sq In): 96.7 Vol. % / 768.9 g/L / 6.404 Lbs/Gal  
 TOTAL VOC'S (TVOC): 100.0 Vol. % / 795.0 g/L / 6.622 Lbs/Gal  
 NONEXEMPT VOC'S (CVOC): 77.0 Vol. % / 612.9 g/L / 5.105 Lbs/Gal  
 HAZARDOUS AIR POLLUTANTS (HAPS): 49.3 Wt. % / 392.1 g/L / 3.265 Lbs/Gal  
 VAPOR PRESSURE (mm of Hg)@20 C 94.6  
 NONEXEMPT VOC PARTIAL PRESSURE (mm of Hg @ 20 C) 50.1  
 VAPOR DENSITY (air=1): 2.1  
 WATER ABSORPTION: Appreciable

**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.

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**SECTION 11. TOXICOLOGICAL INFORMATION**

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

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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
Methyl Ethyl Ketone	78-93-3	None Known	300 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:**

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 96 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.

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**SECTION 12. ECOLOGICAL INFORMATION****MAMMALIAN INFORMATION:**

<b>MATERIAL</b>	<b>CAS #</b>	<b>LOWEST KNOWN LETHAL DOSE DATA</b>
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 marine group to any component of this product is: Fish 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  
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**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

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**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)
*Toluene	108-88-3	<30 (311,312,313,RCRA)	1000
*Methanol	67-56-1	<30 (311,312,313,RCRA)	5000
*Ethylene Glycol Butyl Ether	111-76-2	< 4 (313)	None
*Methyl Ethyl Ketone	78-93-3	< 2 (311,312,313,RCRA)	5000

IF > 4562 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.