

**COMPANY IDENTITY:** PACKAGING SERVICE CO., INC.  
**PRODUCT IDENTITY:** CROWN JAPAN DRIER  
**REVISION DATE:** 11/11/2008

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**SUPERCEDES:** 09/17/2004

## 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 JAPAN DRIER  
**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:

85-95%	MEDIUM ALIPHATIC SOLVENT NAPHTHA (*64742-88-7)
0- 2%	COBALT ALKANOATE (68478-57-9)
0- 5%	ZIRCONIUM ALKANOATE
0- 5%	MANGANESE ALKANOATE

Number in parentheses is CAS #, number in brackets is European EC #. This product has a mixture of n- and iso-paraffins, aromatic hydrocarbons, & naphthenes. Depending on the raw material & production processes, the composition & physical properties of this solvent can vary considerably. The contents of benzene is much less than 0.1% by volume.

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### SECTION 3. HAZARDS IDENTIFICATION

**EXPOSURE PREVENTION: PREVENT DISPERSION OF MISTS OR DUST!**

#### RISK STATEMENTS:

R36/37/38	Irritating to eyes, respiratory system and skin.
R20/65	Harmful by inhalation, may cause lung damage if swallowed.
R10a	Combustible (North America). Flammable (elsewhere).

#### SAFETY STATEMENTS:

S2	Keep out of the reach of children.
S23	Do not breathe gas, fumes, vapor, or spray.
S24	Avoid contact with skin.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
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).

**SWALLOWING:** Rinse mouth. Do NOT induce vomiting. GET MEDICAL ATTENTION IMMEDIATELY. 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.

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**EXTINGUISHING MEDIA:** Use dry powder, AFFF, alcohol-resistant foam, water spray, 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:** COMBUSTIBLE! Keep container tightly closed. Isolate from oxidizers, heat, & 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:** 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. Absorb remaining liquid in sand or inert absorbent. Remove to safe place. Do NOT wash away into sewer.

## SECTION 7. HANDLING AND STORAGE

**HANDLING:** Isolate from oxidizers, heat, & 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, braze, or weld. Empty container very hazardous! Continue all label precautions!

**STORAGE:** Keep in fireproof surroundings. Keep separated from strong oxidants. 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.

## SECTION 9. PHYSICAL DATA

APPEARANCE:	Liquid, Water-White
ODOR:	Mild
BOILING RANGE:	161 161 197* C / 323 323 388* F (*=End Point)
AUTO IGNITION TEMPERATURE:	276 C / 530 F (Lowest Component)
LOWER FLAMMABLE LIMIT IN AIR (% by vol):	0.4
FLASH POINT (TEST METHOD):	45 C / 114 F (TCC)
FLAMMABILITY CLASSIFICATION:	Class II
GRAVITY @ 68/68 F / 20/20 C:	
SPECIFIC GRAVITY (Water=1):	1.970
POUNDS/GALLON:	16.410
VOC'S (>0.44 Lbs/Sq In):	0.0 Vol. % / 0.0 g/L / 0.000 Lbs/Gal
TOTAL VOC'S (TVOC):	88.7 Vol. % / 695.2 g/L / 5.791 Lbs/Gal
NONEXEMPT VOC'S (CVOC):	88.7 Vol. % / 695.2 g/L / 5.791 Lbs/Gal

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HAZARDOUS AIR POLLUTANTS (HAPS):	11.1 Wt. % / 9.0 g/L / 0.074 Lbs/Gal
VAPOR PRESSURE (mm of Hg)@20 C	1.0
NONEXEMPT VOC PARTIAL PRESSURE (mm of Hg @ 20 C)	1.0
VAPOR DENSITY (air=1):	4.9
WATER ABSORPTION:	Negligible

### SECTION 10. STABILITY & REACTIVITY

**STABILITY:** Stable under normal conditions.

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

**MATERIALS TO AVOID:** Reacts with strong oxidants, causing fire & explosion hazard. Attacks many plastics, rubber.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon Monoxide, Carbon Dioxide, Zirconium Dioxide, Manganese Dioxide, Cobalt Oxide from burning.

**HAZARDOUS POLYMERIZATION:** Will not occur.

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### SECTION 11. TOXICOLOGICAL INFORMATION

MATERIAL	CAS #	TWA (OSHA)	TLV (ACGIH)	HAP
Medium Aliphatic Solvent Naphtha	*64742-88-7	500 ppm	100 ppm	No
Zirconium Alkanoate		None Known	None Known	No
Manganese Chloride		None Known	None Known	No
Cobalt Naphthenate	68478-57-9	None Known	None Known	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%): Polycyclic Aromatics

MATERIAL	CAS #	CEILING	STEL(OSHA/ACGIH)
		None Known	None Known

### ACUTE HAZARDS

**EYE & SKIN CONTACT:** Primary irritation to skin, defatting, dermatitis. 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.

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

### CHRONIC HAZARDS

**CANCER, REPRODUCTIVE & OTHER CHRONIC HAZARDS:** Lung tumors have been reported in laboratory mice. Leukemia been reported in humans from Benzene. This product contains less than 1 ppm of Benzene. Not considered hazardous in such low concentrations. Absorption thru skin may be harmful.

### SECTION 12. ECOLOGICAL INFORMATION

**MAMMALIAN INFORMATION:** No mammalian information is available on this product.

**AQUATIC ANIMAL INFORMATION:** The most sensitive known aquatic group to any component of this product is: Fish are adversely affected by components of this product. Environmental effects of the substance have not been investigated adequately.

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**MOBILITY:** Mobility of this material has not been determined.

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

**ACCUMULATION:** Bioaccumulation of this product has not been determined.

### 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:** NONBULK: None  
BULK: UN 1993, Combustible Liquid, n.o.s.,3, PG-III (Medium Aliphatic Solvent Naphtha, Petroleum Distillates)  
Combustible liquid. Not DOT regulated on trucks in containers of < 119 gallons.  
**IATA / ICAO:** UN 1993, Flammable Liquids, n.o.s., (Medium Aliphatic Solvent Naphtha, Petroleum Distillates), 3, PG-III  
**IMO / IMDG:** UN 1993, Flammable Liquids, n.o.s., (Medium Aliphatic Solvent Naphtha, Petroleum Distillates), 3, PG-III  
**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 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)

**STATE REGULATIONS:** CALIFORNIA PROPOSITION 65: This product contains no chemicals known to the State of California to cause cancer & reproductive toxicity.

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

### SECTION 16. OTHER INFORMATION

#### HAZARD RATINGS:

HEALTH (NFPA): 1      HEALTH (HMIS): 1      FLAMMABILITY: 2      REACTIVITY: 0  
(Personal Protection Rating to be supplied by user based on use conditions.) 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 11/11/2011.