

**COMPANY IDENTITY:** PACKAGING SERVICE CO., INC.  
**PRODUCT IDENTITY:** CROWN TURPENTINE  
**NEW MSDS DATE:** 11/12/2008

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**SUPERCEDES:** 05/01/1998

## **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 TURPENTINE  
**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:**

95-100% TURPENTINE (\*8006-64-2)

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

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### **SECTION 3. HAZARDS IDENTIFICATION**

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

#### **RISK STATEMENTS:**

R36/37/38 Irritating to eyes, respiratory system and skin.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R10 Flammable.  
R20/21/22 Harmful by inhalation, in contact with skin, and if swallowed.  
R43 May cause sensitization by skin contact.  
R65 Harmful: may cause lung damage if swallowed.  
R66 Repeated exposure may cause skin dryness or cracking.

#### **SAFETY STATEMENTS:**

S2 Keep out of the reach of children.  
S46 If swallowed, seek medical advice immediately, and show this container or label.  
S61 Avoid release to the environment. Refer to special instructions/safety data sheet.  
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. Give plenty of water to drink. 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.

**EXTINGUISHING MEDIA:** Use dry powder, AFFF, foam, carbon dioxide.

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**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:** 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:** Keep unprotected personnel away. Ventilate spill area. Remove all ignition sources. Use self-contained breathing apparatus.

**CONTAINMENT AND CLEAN-UP MEASURES:** Stop spill at source. Dike and contain. Cover spilled material with dry earth or sand or other inert material. If appropriate, moisten first to prevent dusting. 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.

## **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. Avoid prolonged or repeated contact with skin. 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:** Keep in fireproof surroundings. Keep separated from strong oxidants, incompatible materials. Keep cool. Keep inside a well-ventilated room. 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:	Terpene
BOILING RANGE:	156 157 162 C / 313 316 324 F
AUTO IGNITION TEMPERATURE:	237 C / 460 F (Lowest Component)
LOWER FLAMMABLE LIMIT IN AIR (% by vol):	1.0
FLASH POINT (TEST METHOD):	34 C / 94 F (TCC)
FLAMMABILITY CLASSIFICATION:	Class I C
GRAVITY @ 68/68 F / 20/20 C:	

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API :	32.7
SPECIFIC GRAVITY (Water=1):	0.862
POUNDS/GALLON :	7.180
VOC'S (>0.44 Lbs/Sq In):	0.0 Vol. % / 0.0 g/L / 0.000 Lbs/Gal
TOTAL VOC'S (TVOC):	100.0 Vol. % / 862.0 g/L / 7.180 Lbs/Gal
NONEXEMPT VOC'S (CVOC):	100.0 Vol. % / 862.0 g/L / 7.180 Lbs/Gal
HAZARDOUS AIR POLLUTANTS (HAPS):	0.0 Wt. % / 0.0 g/L / 0.000 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) :	5.0
WATER ABSORPTION:	Negligible
REFRACTIVE INDEX:	1.472

## SECTION 10. STABILITY & REACTIVITY

**STABILITY:** Stable under normal conditions.

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

**MATERIALS TO AVOID:** On combustion forms irritating and toxic gases including carbon monoxide, The substance decomposes slowly under the influence of light and air, producing oxidation products that are more toxic than turpentine itself. Reacts violently with strong oxidants, strong acids, causing fire & explosion hazard. Reacts with amines, halogens, interhalogens. Attacks many plastics, rubber.

**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
Turpentine	*8006-64-2	100 ppm	20 ppm	No
This product contains no EPA Hazardous Air Pollutants (HAP) in amounts > 0.1%.				

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

## SECTION 12. ECOLOGICAL INFORMATION

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

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**AQUATIC ANIMAL INFORMATION:** No aquatic environmental information is available on this product.

**MOBILITY:** This material is a mobile liquid.

**DEGRADABILITY:** This product is completely 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**

DOT SHIPPING NAME: UN1299, Turpentine, 3, PG-III  
DRUM LABEL: (FLAMMABLE LIQUID)  
IATA / ICAO: UN1299, Turpentine, 3, PG-III  
IMO / IMDG: UN1299, Turpentine, 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. This material contains no known products restricted under SARA Title III, Section 313 in amounts greater or equal to 1%.

**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): 0      HEALTH (HMIS): 1      FLAMMABILITY: 3      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 11/12/2011.