

### 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 HANDI-STRIP SEMI-PASTE REMOVER  
**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

#### CRSP01 SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

**CONTAINS:**

80-90%	METHYLENE CHLORIDE (75-09-2)[200-838-9]
0-10%	MEDIUM ALIPHATIC SOLVENT NAPHTHA (*64742-88-7)
0-10%	TOLUENE (108-88-3)[203-625-9]
0- 4%	METHANOL (67-56-1)[200-659-6]
0- 2%	ACETONE (67-64-1)[200-662-2]
0- 1%	SURFACTANT
0- 1%	PARAFFIN WAX(126 MP)
0- 1%	1,2,4-TRIMETHYLBENZENE (95-63-6)[265-198-5]

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.

#### SECTION 3. HAZARDS IDENTIFICATION

**EXPOSURE PREVENTION:** STRICT HYGIENE! PREVENT DISPERSION OF MISTS OR DUST! AVOID EXPOSURE OF (PREGNANT) WOMEN, ADOLESCENTS, CHILDREN!

**RISK STATEMENTS:**

R36/37/38	Irritating to eyes, respiratory system and skin.
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.
R40	Possible risk of irreversible effects.
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.
R10a	Combustible (North America). Flammable (elsewhere) –for paint residues after use.

**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.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S46	If swallowed, seek medical advice immediately, and show this container or label.
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.

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**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. Rest. Do NOT give liquids to an unconscious or convulsing person

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## SECTION 5. FIRE FIGHTING MEASURES

**FIRE & EXPLOSION PREVENTIVE MEASURES:** Product will not burn as packaged or produced. Evaporation of components may leave a combustible or flammable liquid from remaining solvents or paint residues which remain. Take precautions to eliminate flames when working or using paint related materials.

**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:** 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:** EVACUATE DANGER AREA! Consult an expert! 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. Do NOT wash away into sewer. Wash away remainder with plenty of water. Do NOT let this chemical enter the environment.

## SECTION 7. HANDLING AND STORAGE

**HANDLING:** Isolate from oxidizers, heat, & open flame. Can may pressurize at high temperatures and will release pressure when opened. 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, braze, or weld. Empty container very hazardous! Continue all label precautions! Drinking alcohol shortly before, during or after use can cause unwanted effects. Do NOT use in the vicinity of a fire, a hot surface, or during welding.

**STORAGE:** Keep in fireproof surroundings. Keep separated from strong oxidants, food & feedstuffs. Keep cool. When using, loosen bung slowly to relieve pressure. Do not store above 38 C/100 F. Contact with hot surfaces can produce toxic gases. Keep container tightly closed & upright when not in use to prevent leakage. Contact with hot surfaces can produce toxic gases.

## 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.

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**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 to Slightly milky
ODOR:	Distinctive - solvent
BOILING RANGE:	38 50 197* C / 102 122 388* F (*=End Point)
AUTO IGNITION TEMPERATURE:	276 C / 530 F (Lowest Component)
LOWER FLAMMABLE LIMIT IN AIR (% by vol):	N/A
FLASH POINT (TEST METHOD):	No Flash to Boiling Point
FLAMMABILITY CLASSIFICATION:	N/A
GRAVITY @ 68/68 F / 20/20 C:	
SPECIFIC GRAVITY (Water=1):	1.215
POUNDS/GALLON:	10.125
VOC'S (>0.44 Lbs/Sq In):	9.6 Vol. % / 117.1 g/L /0.975 Lbs/Gal
TOTAL VOC'S (TVOC):	99.2 Vol. % / 1208.3 g/L /10.065 Lbs/Gal
NONEXEMPT VOC'S (CVOC):	17.7 Vol. % / 145.7 g/L /1.213 Lbs/Gal
HAZARDOUS AIR POLLUTANTS (HAPS):	93.7 Wt. % / 1140.1 g/L /9.497 Lbs/Gal
VAPOR PRESSURE (mm of Hg)@ 20 C	331.3
NONEXEMPT VOC PARTIAL PRESSURE (mm of Hg @ 20 C)	7.0
VAPOR DENSITY (air=1):	2.9
WATER ABSORPTION:	Moderate
REFRACTIVE INDEX:	1.425

**SECTION 10. STABILITY & REACTIVITY**

**STABILITY:** Stable under normal conditions.

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

**MATERIALS TO AVOID:** Decomposes on heating on contact with hot surfaces or flames producing toxic & corrosive fumes including chlorine, phosgene, & hydrogen chloride. Reacts violently with strong oxidants, strong bases, causing fire & explosion hazard. Reacts with amines, metals, such as aluminum powder, magnesium powder. Attacks many plastics, rubber, coatings.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon Monoxide, Carbon Dioxide, Hydrogen Chloride, Phosgene from burning.

**HAZARDOUS POLYMERIZATION:** Will not occur.

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**SECTION 11. TOXICOLOGICAL INFORMATION**

MATERIAL	CAS #	TWA (OSHA)	TLV (ACGIH)	HAP
Methylene Chloride	75-09-2	25 ppm	50 ppm A3	Yes
Medium Aliphatic Solvent Naphtha	*64742-88-7	500 ppm	100 ppm	No
Toluene	108-88-3	200 ppm	50 ppm A4	Yes
Methanol	67-56-1	200 ppm S	200 ppm S	Yes
Acetone	67-64-1	1000 ppm	500 ppm A4	No
Surfactant	0	None Known	None Known	No
Paraffin Wax (126 mp)	0	None Known	None Known	No
1,2,4-Trimethylbenzene	95-63-6	25 ppm	25 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, Ethylbenzene, Polycyclic Aromatics

MATERIAL	CAS #	CEILING	STEL (OSHA/ACGIH)
Methylene Chloride	75-09-2	None Known	125 ppm
Methanol	67-56-1	None Known	250 ppm
Acetone	67-64-1	None Known	750 ppm

**ACUTE HAZARDS**

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**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 burns & skin irritation. Wash thoroughly after handling.

**INHALATION:** Anesthetic. Irritates respiratory tract. Acute overexposure can cause serious nervous system depression which can cause death. Vapor harmful. Concentrated vapor in confined areas may be fatal. Breathing vapor can cause irritation. Exposure increases Carbon Monoxide level of blood. OSHA required periodic vapor monitoring whenever Methylene Chloride vapors may exceed the action level (12.5 parts per million). Acute overexposure can cause harm to kidneys, blood, nerves, liver, lungs. Use of alcoholic beverages enhances the harmful effect.

**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:** Chronic overexposure can cause harm to kidneys, blood, nerves, liver, lungs. Persons with asthma, chronic respiratory problems, severe heart, skin, liver or kidney problems should avoid use.

#### **CHRONIC HAZARDS**

**CANCER, REPRODUCTIVE & OTHER CHRONIC HAZARDS:** Pregnant women should avoid use. May cause birth defects. Potential Cancer Hazard based on tests with laboratory animals using Methylene Chloride. Mammary, lung, liver tumors have been reported in laboratory mice. Overexposure may create cancer risk. Leukemia been reported in humans from Benzene. This product contains less than 17 ppm of Benzene. Not considered hazardous in such low concentrations. Depending on degree of exposure, periodic medical examination is indicated.

### **SECTION 12. ECOLOGICAL INFORMATION**

#### **MAMMALIAN INFORMATION:**

<b>MATERIAL</b>	<b>CAS #</b>	<b>LOWEST KNOWN LETHAL DOSE DATA</b>
Methanol	67-56-1	LOWEST KNOWN LD50 (ORAL) 1000.0 mg/kg(Man)

**AQUATIC ANIMAL INFORMATION:** The most sensitive known aquatic group to any component of this product is: Mosquito Fish 250 ppm or mg/L (24 hour exposure). Keep out of sewers and natural water supplies. The substance is toxic to aquatic organisms. The substance may be hazardous in the environment. Special attention should be given to ground water contamination. Environmental effects of the substance have not been investigated adequately.

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

**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**

IF CONTAINER HAS > PRODUCT RQ (SEE SECTION 15) PUT "RQ," BEFORE SHIPPING NAME.

DOT SHIPPING NAME: UN 2810, Toxic Liquid, Organic, 6.1, PG-III (Methylene Chloride)  
DRUM LABEL: TOXIC  
IATA / ICAO: UN 2810, Toxic Liquid, Organic, 6.1, PG-III (Methylene Chloride)  
IMO / IMDG: UN 2810, Toxic Liquid, Organic, 6.1, PG-III (Methylene Chloride)  
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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.

<b>SARA TITLE III INGREDIENTS</b>	<b>CAS#</b>	<b>WT. % (REG. SECTION)</b>	<b>RQ(LBS)</b>
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*Methylene Chloride	75-09-2	<90 (311,312,313,RCRA)	1000
*Toluene	108-88-3	<10 (311,312,313,RCRA)	1000
*Methanol	67-56-1	< 3 (311,312,313,RCRA)	5000
Acetone	67-64-1	< 2 (311,312)	5000
*1,2,4-Trimethylbenzene	95-63-6	< 1 (311,312,313,RCRA)	None

> 1168 LB / 530 KG OF THIS PRODUCT IN 1 CONTAINER EXCEEDS THE "RQ" OF METHYLENE CHLORIDE. 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:** THIS PRODUCT MEETS REQUIREMENTS OF SOUTHERN CALIFORNIA AQMD RULE 443.1 & SIMILAR REGULATIONS. CALIFORNIA PROPOSITION 65: This product contains the following chemicals known to the State of California to cause cancer: Methylene Chloride, & 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.

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#### **SECTION 16. OTHER INFORMATION**

**HAZARD RATINGS:**

HEALTH (NFPA): 2      HEALTH (HMIS): 3      FLAMMABILITY: 1      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 03/26/2010.