

COMPANY IDENTITY: PACKAGING SERVICE CO., INC.
PRODUCT IDENTITY: CROWN TUFF-STRIP AEROSOL
NEW MSDS DATE: 03/12/2009

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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 TUFF-STRIP AEROSOL
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:

80-90% METHYLENE CHLORIDE (75-09-2)[200-838-9],
0-10% ISOPROPANOL (67-63-0)[200-661-7],
0-10% N-BUTANE (106-97-8)[203-448-7],
0- 5% PROPANE (74-98-6),
0- 1% MONOETHANOLAMINE (141-43-5)[205-483-3],
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.

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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.
R42/43 May cause sensitization by inhalation and skin contact.
R20/65 Harmful by inhalation, may cause lung damage if swallowed.
R12/13 Extremely Flammable! Serious static electricity fire hazard!
R18 In use, may form flammable/explosive vapor-air mixture.
R21/22 Harmful in contact with skin, and if swallowed.
R34 Causes burns.
R40 Possible risk of irreversible effects.
R67 Vapors may cause drowsiness and dizziness.

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.
S7/9 Keep container tightly closed, 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.
S29 Do not empty into drains.

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: NO open flames, NO sparks, & NO smoking. Above flash point, use a closed system, ventilation, explosion-proof electrical equipment, lighting. Do NOT use compressed air for filling, discharging, or handling.

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: 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

PERSONAL PROTECTIVE MEASURES: EVACUATE DANGER AREA! Consult an expert! Vapors may ignite explosively & spread long distances. Prevent vapor buildup. 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. Collect leaking liquid in sealable containers. 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, 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! Drinking alcohol shortly before, during or after use can cause unwanted effects. High concentrations in air cause a deficiency of oxygen with the risk of unconsciousness and death. Check oxygen content before entering area. Do NOT use in the vicinity of a fire, a hot surface, or during welding.

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. Keep in fireproof surroundings. Keep separated from strong oxidants. 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.

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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 :	Chlorinated
BOILING RANGE :	-43 39 197* C /-46 103 388* F (*=End Point)
AUTO IGNITION TEMPERATURE:	276 C / 530 F (Lowest Component)
LOWER FLAMMABLE LIMIT IN AIR (% by vol):	0.9 (Lowest Component)
FLASH POINT (TEST METHOD):	-60 C / -76 F (TCC)
FLAMMABILITY CLASSIFICATION:	Class I A
GRAVITY @ 68/68 F / 20/20 C :	
SPECIFIC GRAVITY (Water=1) :	1.119
POUNDS/GALLON :	9.317
VOC'S (>0.44 Lbs/Sq In):	15.8 Vol. % / 176.7 g/L / 1.471 Lbs/Gal
TOTAL VOC'S (TVOC):	100.0 Vol. % / 1118.6 g/L / 9.317 Lbs/Gal
NONEXEMPT VOC'S (CVOC) :	30.0 Vol. % / 194.6 g/L / 1.620 Lbs/Gal
HAZARDOUS AIR POLLUTANTS (HAPS):	82.6 Wt. % / 924.2 g/L / 7.698 Lbs/Gal
VAPOR PRESSURE (mm of Hg)@20 C	424.9
NONEXEMPT VOC PARTIAL PRESSURE (mm of Hg @ 20 C)	136.3
VAPOR DENSITY (air=1) :	2.7
WATER ABSORPTION :	Appreciable
REFRACTIVE INDEX :	1.408

SECTION 10. STABILITY & REACTIVITY

STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID: Isolate from oxidizers, heat, sparks, electric equipment & 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 with strong oxidants, strong bases, causing fire & explosion hazard. Reacts with amines, metals, such as aluminum powder, magnesium powder. Attacks many plastics, rubber and coatings.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide, Carbon Dioxide, Hydrogen Chloride, Phosgene, Nitrogen Oxide vapors 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
Isopropanol	67-63-0	400 ppm	200 ppm A4	No
n-Butane	106-97-8	1000 ppm	800 ppm	No
Propane	74-98-6	1000 ppm	2500 ppm	No
Monoethanolamine	141-43-5	3 ppm	3 ppm	No
1,2,4-Trimethylbenzene	95-63-6	25 ppm	25 ppm	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)
Methylene Chloride	75-09-2	None Known	125 ppm
Isopropanol	67-63-0	None Known	400 ppm

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Monoethanolamine 141-43-5 None Known 6 ppm

ACUTE HAZARDS

EYE & SKIN CONTACT: Primary irritation to skin, defatting, dermatitis. This product may cause allergic skin reaction. 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: 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 8 ppm of Benzene. Not considered hazardous in such low concentrations.

SECTION 12. ECOLOGICAL INFORMATION

MAMMALIAN INFORMATION:

MATERIAL	CAS #	LOWEST KNOWN LETHAL DOSE DATA
Methylene Chloride	75-09-2	LOWEST KNOWN LD50 (ORAL) 1900.0 mg/kg(Rabbits)
Methylene Chloride	75-09-2	LOWEST KNOWN LC50 (VAPORS) 16000 ppm (Mice)
Isopropanol	67-63-0	LOWEST KNOWN LD50 (SKIN) 16400.0 mg/kg (Rabbits)

AQUATIC ANIMAL INFORMATION: The most sensitive known aquatic group to any component of this product is: Daphnia Magna exposed to 140 ppm or mg/L are adversely affected by components of this product. Keep out of sewers and natural water supplies. 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: 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

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

DOT SHIPPING NAME: Commodity shipments by ground can be classified as Consumer Commodity, ORM-D (under 173.306(h). Aerosol Level 1

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DRUM LABEL: (FLAMMABLE LIQUID),(TOXIC PG-III)
IATA / ICAO: UN1992, Flammable liquids, toxic, n.o.s. (contains: Butane,Propane,Methylene Chloride), 3, (6.1), PG-I
IMO / IMDG: UN1992,Flammable liquids,toxic,n.o.s. (contains: Butane,Propane,Methylene Chloride),3,(6.1),PG-I
EMERGENCY RESPONSE GUIDEBOOK NUMBER: 128

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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.

SARA TITLE III INGREDIENTS	CAS#	WT. % (REG. SECTION)	RQ(LBS)
*Methylene Chloride	75-09-2	<90 (311,312,313,RCRA)	1000

> 1210 LB / 550 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 chemical known to the State of California to cause cancer: Methylene Chloride

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): 2 HEALTH (HMIS): 2 FLAMMABILITY: 4, 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 03/12/2012.