

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. CHEMICAL PRODUCT & COMPANY IDENTIFICATION / HAZARD RATINGS

PRODUCT IDENTITY: CROWN HANDI STRIP LIQUID
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

40 - 60%	METHYLENE CHLORIDE	(75-09-2)	[200-838-9],
25 - 45%	METHANOL	(67-56-1)	[200-659-6],
15 - 25%	TOLUENE	(108-88-3)	[203-625-9],
5 - 15%	ACETONE	(67-64-1)	[200-662-2],
0 - 5%	PARAFFIN WAX	(126 MP)	(0),
0 - 5%	NONYLPHENOL ETHOXYLATE	(9016-45-9)	

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

SECTION 3. HAZARDS IDENTIFICATION

RISK STATEMENTS:

R12 Extremely Flammable.

R41 Risk of serious damage to eyes.

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.

S23 Do not breathe gas, fumes, vapor, or spray.

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.

S36/37 Wear suitable protective clothing and gloves.

SECTION 4. FIRST AID MEASURES PROCEDURES

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.

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.

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. Do not drink alcohol shortly before, during or after use.

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.

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. When using, loosen bung slowly to relieve pressure. Do not store above 38 C/100 F. Store large amounts in structures made for OSHA Class I B liquids. 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

EXPOSURE CONTROLS

Ventilate to keep vapors of this material below 30 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
SPECIAL : None

MECHANICAL (GENERAL) : Acceptable
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:	38 59 111* C / 102 139 232* F (*=End Point)
AUTO IGNITION TEMPERATURE :	422 C / 793 F (Lowest Component)
LOWER FLAMMABLE LIMIT IN AIR (% by vol):	1.4 (Lowest Component)
FLASH POINT (TEST METHOD):	-16 C / 2 F (TCC)
FLAMMABILITY CLASSIFICATION:	Class I B
GRAVITY @ 60 F:	API: 7.2
SPECIFIC GRAVITY (Water=1):	1.07
POUNDS/GALLON:	8.35
VOC'S (>0.44 Lbs/Sq In):	46.5 Vol. % / 474.8 g/L / 3.954 Lbs/Gal
TOTAL VOC'S (TVOC):	98.6 Vol. % / 1008.8 g/L / 8.403 Lbs/Gal
NONEXEMPT VOC'S (CVOC):	42.7 Vol. % / 352.2 g/L / 2.934 Lbs/Gal
HAZARDOUS AIR POLLUTANTS (HAPS):	86.9 Wt. % / 886.8 g/L / 7.387 Lbs/Gal
VAPOR PRESSURE (mm of Hg)@20 C	210.6
NONEXEMPT VOC PARTIAL PRESSURE (mm of Hg @ 20 C)	39.0
VAPOR DENSITY (air=1):	2.1
WATER ABSORPTION:	Appreciable
REFRACTIVE INDEX:	1.402

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,
Hydrogen Chloride, Phosgene, Carbon Oxides from burning.

HAZARDOUS POLYMERIZATION:

Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

MATERIAL	CAS #	TWA (OSHA)	TLV (ACGIH)	HAP
Methylene Chloride	75-09-2	25 ppm	50 ppm A3	Yes
Methanol	67-56-1	200 ppm S	200 ppm S	Yes
Toluene	108-88-3	200 ppm	50 ppm A4	Yes
Acetone	67-64-1	1000 ppm	500 ppm A4	No
Paraffin Wax(126 mp)	0	None Known	None Known	No
Nonylphenol Ethoxylate	9016-45-9	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%):

Benzene, Mixed Xylenes, Ethylbenzene

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

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 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 tumors, 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 may contain less than 46 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.

SECTION 12. ECOLOGICAL INFORMATION

MAMMALIAN INFORMATION:

MATERIAL CAS # LOWEST KNOWN LETHAL DOSE DATA
LOWEST KNOWN LD50 (ORAL)

Methanol 67-56-1 1000.0 mg/kg(Man)
LOWEST KNOWN LC50 (VAPORS)

Toluene 108-88-3 5300 ppm (Mice)
LOWEST KNOWN LD50 (SKIN)

Toluene 108-88-3 4000.0 mg/kg (Rabbits)

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.

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

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: Flammable Liquids, Toxic, n.o.s.
(Methylene Chloride, Methanol), 3,UN1992, PG-II
"RQ," must be put before shipping name if in a container of over 1907 pounds.
DRUM LABEL: (FLAMMABLE LIQUID),(TOXIC PG-III)
IATA / ICAO: Flammable Liquids, Toxic, n.o.s.
(Methylene Chloride, Methanol), 3,UN1992, PG-II
IMO / IMDG: Flammable Liquids, Toxic, n.o.s.
(Methylene Chloride, Methanol), 3,UN1992, PG-II
EMERGENCY RESPONSE GUIDEBOOK NUMBER: 131

SECTION 15. REGULATORY INFORMATION

EPA REGULATION:

SARA SECTION 311/312 HAZARDS: Acute Health, Chronic Health, and 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 <60 (311,312,313,RCRA) 1000

*Methanol 67-56-1 <30 (311,312,313,RCRA) 1000

*Toluene 108-88-3 <20 (311,312,313,RCRA) 5000

Acetone 67-64-1 <20 (311,312) 5000

IF > 1907 POUNDS OF THIS PRODUCT IS IN ONE CONTAINER THE "RQ" OF METHYLENE CHLORIDE IS EXCEEDED.

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 & reproductive toxicity: Methylene Chloride, 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.

SECTION 16. OTHER INFORMATION

HAZARD RATINGS:

HEALTH (NFPA):	2
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.