

COMPANY IDENTITY: Packaging Service Co., Inc.  
PRODUCT IDENTITY: CROWN ISOPROPYL ALCOHOL 99%  
SDS NUMBER: IPA001

DATE: 06/06/11  
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## SAFETY DATA SHEET

This Safety Data Sheet conforms to ANSI Z400.5, and to the format requirements and the International Chemical Safety Cards of the Global Harmonizing System.  
THIS SDS COMPLIES WITH 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD)  
IMPORTANT: Read this SDS before handling & disposing of this product.  
Pass this information on to employees, customers, & users of this product.

### SECTION 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

PRODUCT IDENTITY: CROWN ISOPROPYL ALCOHOL 99%  
REVISION DATE: 06/06/2011 SUPERCEDES: 12/29/2000  
COMPANY IDENTITY: Packaging Service Co., Inc.  
COMPANY ADDRESS: 1904 Mykawa Road / P O Box 875  
COMPANY CITY: Pearland, TX 77581  
COMPANY PHONE: 1-281-485-1458  
EMERGENCY PHONES: CHEMTREC: 1-800-424-9300 (USA)  
CANUTEC: 1-613-996-6666 (CANADA)

### SECTION 2. HAZARDS IDENTIFICATION

**DANGER!!**



#### RISK STATEMENTS:

R36/37/38 Irritating to eyes, respiratory system and skin.  
R11 Highly Flammable.  
R67 Vapors may cause drowsiness and dizziness.

#### SAFETY STATEMENTS:

S24/25 Avoid contact with skin and eyes.  
S7 Keep container tightly closed.  
S16 Keep away from sources of ignition. No smoking.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**SEE SECTIONS 8, 11 & 12 FOR TOXICOLOGICAL INFORMATION.**

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

MATERIAL	CAS#	EINECS#	WT %
Isopropanol	67-63-0	200-661-7	99-100

### 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.

### 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, alcohol-resistant foam, 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.

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## SECTION 5. FIRE FIGHTING MEASURES (CONTINUED)

### UNUSUAL EXPLOSION AND FIRE PROCEDURES

HIGHLY FLAMMABLE!! VAPORS CAN CAUSE FLASH FIRE

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:

Vapors may ignite explosively & spread long distances. Prevent vapor buildup.  
Keep unprotected personnel away. Remove all ignition sources.  
Filter respirator for organic vapors.

### ENVIRONMENTAL PRECAUTIONS:

Keep from entering storm sewers and ditches which lead to waterways.

### 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.

## 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 contact with skin & eyes.  
Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier. Wear goggles, face shield, gloves, apron & footwear impervious to 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!  
To minimize static discharge when transferring, ensure electrical continuity by bonding and grounding all equipment. Use an inlet line diameter of at least 3.5 inches (8.9 centimeters) with a maximum flow rate of 1 meter/second.

### STORAGE

Keep in fireproof surroundings. Keep separated from strong oxidants. Keep cool.  
Do not store above 49 C/120 F. Keep container tightly closed  
& upright when not in use to prevent leakage.

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### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

MATERIAL	CAS#	EINECS#	TWA (OSHA)	TLV (ACGIH)
Isopropanol	67-63-0	200-661-7	400 ppm	200 ppm A4

MATERIAL	CAS#	EINECS#	CEILING	STEL(OSHA/ACGIH)	HAP
Isopropanol	67-63-0	200-661-7	None Known	400 ppm	No

This product contains no EPA Hazardous Air Pollutants (HAP) in amounts > 0.1%.

#### 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 goggles, face shield, gloves, apron & footwear impervious to 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.

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## SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE:	Liquid, Water-White
ODOR:	Alcohol
ODOR THRESHOLD:	Not Available
pH (Neutrality):	Not Applicable
MELTING POINT/FREEZING POINT:	Not Available
BOILING RANGE (IBP,50%,Dry Point):	80 81 83 C / 177 179 182 F
FLASH POINT (TEST METHOD):	13 C / 56 F (TCC)
EVAPORATION RATE (n-BUTYL ACETATE=1):	1.2
FLAMMABILITY CLASSIFICATION:	Class I B
LOWER FLAMMABLE LIMIT IN AIR (% by vol):	2.0
UPPER FLAMMABLE LIMIT IN AIR (% by vol):	12.0
VAPOR PRESSURE (mm of Hg)@20 C	33.0
VAPOR DENSITY (air=1):	2.1
GRAVITY @ 68/68 F / 20/20 C:	
SPECIFIC GRAVITY (Water=1):	0.787
POUNDS/GALLON:	6.556
WATER SOLUBILITY:	Complete
PARTITION COEFFICIENT (n-Octane/Water):	Not Available
AUTO IGNITION TEMPERATURE:	398 C / 750 F
DECOMPOSITION TEMPERATURE:	Not Available
REFRACTIVE INDEX:	1.378
VOC'S (>0.44 Lbs/Sq In) :	100.0 Vol% / 787.0 g/L / 6.5 Lbs/Gal
TOTAL VOC'S (TVOC)*:	100.0 Vol% / 787.0 g/L / 6.5 Lbs/Gal
NONEXEMPT VOC'S (CVOC)*:	100.0 Vol% / 787.0 g/L / 6.5 Lbs/Gal
HAZARDOUS AIR POLLUTANTS (HAPS):	0.0 Wt% / 0.0 g/L / 0.000 Lbs/Gal
NONEXEMPT VOC PARTIAL PRESSURE (mm of Hg @ 20 C)	33.0

\* Using California South Coast Air Quality Management District (SCAQMD) Rule 443.1.

## SECTION 10. STABILITY & REACTIVITY

### STABILITY

Stable under normal conditions.

### CONDITIONS TO AVOID

Isolate from oxidizers, heat, sparks, electric equipment & open flame.

### MATERIALS TO AVOID

Reacts with strong oxidants, causing fire & explosion hazard. Attacks

### HAZARDOUS DECOMPOSITION PRODUCTS

Carbon Monoxide, Carbon Dioxide from burning.

### HAZARDOUS POLYMERIZATION

Will not occur.

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## SECTION 11. TOXICOLOGICAL INFORMATION

### 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.  
Breathing vapor can cause irritation.  
Acute overexposure can cause harm to kidneys, blood, nerves, liver, lungs.

#### SWALLOWING:

Swallowing can cause abdominal irritation, nausea, vomiting & diarrhea.

### SUBCHRONIC HAZARDS/CONDITIONS AGGRAVATED

#### CONDITIONS AGGRAVATED

Chronic overexposure can cause harm to kidneys, blood, nerves, liver, lungs.  
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%.

### MAMMALIAN TOXICITY INFORMATION

MATERIAL	CAS#	EINECS#	LOWEST KNOWN LETHAL DOSE DATA
Isopropanol	67-63-0	200-661-7	LOWEST KNOWN LD50 (ORAL) 5840.0 mg/kg(Rats)
Isopropanol	67-63-0	200-661-7	LOWEST KNOWN LC50 (VAPORS) 1600 ppm (Rats)
Isopropanol	67-63-0	200-661-7	LOWEST KNOWN LD50 (SKIN) 16400.0 mg/kg (Rabbits)

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## SECTION 12. ECOLOGICAL INFORMATION

### AQUATIC ANIMAL INFORMATION:

The most sensitive known aquatic group to any component of this product is:  
Chub 1000 ppm or mg/L (24 hour exposure).  
Keep out of sewers and natural water supplies.

### MOBILITY IN SOIL

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.

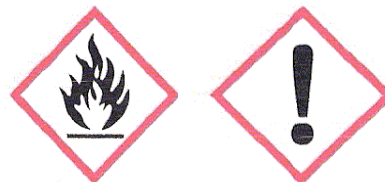
## SECTION 14. TRANSPORT INFORMATION

DOT SHIPPING NAME: UN1219, Isopropanol, 3, PG-II  
DRUM LABEL: (FLAMMABLE LIQUID)  
IATA / ICAO: UN1219, Isopropanol, 3, PG-II  
IMO / IMDG: UN1219, Isopropanol, 3, PG-II  
EMERGENCY RESPONSE GUIDEBOOK NUMBER: 129

## 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%.

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## SECTION 15. REGULATORY INFORMATION (CONTINUED)

### INTERNATIONAL REGULATIONS

The components of this product are listed on the chemical inventories of the following countries:

Australia (AICS), Canada (DSL, NDSL), China (IECSC), Europe (EINECS, ELINCS), Japan (METI/CSCL, MHLW/ISHL), South Korea (KECI), New Zealand (NZIoC), Philippines (PICCS), Switzerland (SWISS), Taiwan (NECSI), USA (TSCA).

### CANADA: WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

B2: Flammable Liquid.  
D2B: Irritating to skin / eyes.

## SECTION 16. OTHER INFORMATION

### HAZARD RATINGS:

HEALTH (NFPA): 1, HEALTH (HMIS): 2, 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 2 for Risk & Safety Statements. Employees should be made aware of all hazards of this material (as stated in this SDS) 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 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, the Safety Data Sheet is valid until 06/06/2014.