

Painters Pride 93 Isopropyl Alcohol 99% 20286  
Version 1.10

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

<b>MANUFACTURER'S NAME:</b> CUMBERLAND PRODUCTS INCORPORATED	<b>ADDRESS:</b> 50 COMMERCE PARKWAY HODGENVILLE, KY 42748
EMERGENCY PHONE : (800) 424 - 9300	
INFORMATION PHONE : (800) 223 - 1918	
FAX NUMBER : (800) 500 - 9812	
PRODUCT NAME	Painters Pride 93 Isopropyl Alcohol 99%
PRODUCT CODE	20286
PRODUCT USE DESCRIPTION	No data

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

Appearance: liquid,, colorless

**WARNING! FLAMMABLE LIQUID AND VAPOR. MAY AFFECT THE CENTRAL NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. MAY BE HARMFUL IF INHALED OR SWALLOWED. MAY CAUSE EYE IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY THE SKIN AND CAUSE IRRITATION AND BURNS.**

### Potential Health Effects

#### **Exposure routes**

Inhalation, Skin absorption, Skin contact, Eye Contact, Ingestion

#### **Eye contact**

Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.

#### **Skin contact**

May cause mild skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, drying and cracking of skin, and skin burns. Passage of this material into the body through the skin is possible, but it is unlikely that this would result in harmful effects during safe handling and use.

#### **Ingestion**

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury. Exposure causes severe irritation of the gastrointestinal tract.

#### **Inhalation**

Breathing of vapor or mist is possible. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8).

#### **Aggravated Medical Condition**

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material:, Skin, lung (for example, asthma-like conditions), kidney

#### **Symptoms**

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:, stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), Lowered blood pressure, mild, temporary changes in the liver, effects on heart rate, respiratory depression (slowing of the breathing rate), Lack of coordination, confusion, lung edema (fluid buildup in the lung tissue), kidney damage, coma

#### **Target Organs**

Exposure to this material (or a component) has been found to cause kidney damage in male rats. The mechanism by which this toxicity occurs is specific to the male rat and the kidney effects are not expected to occur in humans., Breathing isopropanol vapors has caused damage to the lining of the middle ear in experimental animals. The relevance of this finding to humans is uncertain., Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals:, mild, reversible liver effects

#### **Carcinogenicity**

Based on the available information, this material cannot be classified with regard to carcinogenicity. This material is not listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or

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the Occupational Safety and Health Administration (OSHA).

**Reproductive hazard**

This material (or a component) has been shown to cause harm to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain.

3. COMPOSITION/INFORMATION ON INGREDIENTS		
Hazardous Components	CAS-No.	Concentration
ISOPROPANOL	67-63-0	<=100%

4. FIRST AID MEASURES
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**Eyes**

If symptoms develop, immediately move individual away from exposure and into fresh air.

Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

**Skin**

Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

**Ingestion**

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

**Inhalation**

If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen. If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

**Notes to physician**

**Hazards:** This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity (See Section 2 - Swallowing) when deciding whether to induce vomiting. Administration of high doses of isopropanol in combination with known hepatotoxic chemicals resulted in enhanced liver toxicity in experimental animals.

**Treatment:** No information available.

5. FIRE-FIGHTING MEASURES
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**Suitable extinguishing media**

Dry chemical, Alcohol-resistant foam, Carbon dioxide (CO<sub>2</sub>)

**Hazardous combustion products**

carbon dioxide and carbon monoxide

**Precautions for fire-fighting**

Material is volatile and readily gives off vapors which may travel along the ground or be moved by ventilation and ignited by pilot lights, flames, sparks, heaters, smoking, electric motors, static discharge or other ignition sources at locations near the material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). Water may be ineffective for extinguishment unless used under favorable conditions by experienced fire fighters. Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning liquid with water used for cooling purposes.

**NFPA Flammable and Combustible Liquids Classification** Flammable

Liquid Class IB

6. ACCIDENTAL RELEASE MEASURES
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**Personal precautions**

For personal protection see section 8. Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source. Prevent from entering drains, sewers, streams or other bodies of water. Prevent from spreading. If runoff occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal.

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**Environmental precautions**

No data

**Methods for cleaning up**

Per good environmental management practices, prevent run-off to sewers, streams and other bodies of water. Stop spill at the source. Cover sewer grates and dike the spill. Absorb spilled material on to absorbents. Shovel materials into container. Close container tightly and dispose of properly. Absorb liquid on vermiculite, floor absorbent or other absorbent material.

**7. HANDLING AND STORAGE****Handling**

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Static ignition hazard can result from handling and use. Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Special precautions may be necessary to dissipate static electricity for non-conductive containers. Use proper bonding and grounding during product transfer as described in National Fire Protection Association document NFPA 77. Warning. Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into vacuum equipment, may result in ignitions without the presence of obvious ignition sources. Published "autoignition" or "ignition" temperature values cannot be treated as safe operating temperatures in chemical processes without analysis of the actual process conditions. Any use of this product in elevated temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions.

**Storage**

Small quantities of peroxides may form on prolonged storage. Exposure to light and/or air significantly increases the rate of peroxide formation. If evaporated to a residue, the mixture of peroxides and isopropanol may explode when exposed to heat or shock.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Exposure Guidelines**

ISOPROPANOL	67-63-0		
NIOSH	Recommended exposure limit (REL):	400 ppm	
NIOSH	Recommended exposure limit (REL):	980 mg/m <sup>3</sup>	
NIOSH	Short term exposure limit	500 ppm	
NIOSH	Short term exposure limit	1,225 mg/m <sup>3</sup>	
OSHA Z1	Permissible exposure limit	400 ppm	
OSHA Z1	Permissible exposure limit	980 mg/m <sup>3</sup>	
ACGIH	time weighted average	200 ppm	
ACGIH	Short term exposure limit	400 ppm	

**General advice**

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

**Exposure controls**

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

**Eye protection**

Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. Consult your safety representative.

**Skin and body protection**

Wear resistant gloves such as: Nitrile rubber.

To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

**Respiratory protection**

If workplace exposure limit(s) of product or any component is exceeded (see exposure guidelines), a NIOSH-approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH respirators (negative pressure type) under specified conditions (see your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state</b>	liquid
<b>Form</b>	liquid
<b>Color</b>	colorless
<b>Odor</b>	pleasant
<b>Boiling point/boiling range</b>	82.50 °C @ 101.32 kPa
<b>Melting point/range</b>	-127.3 °F / -88.5 °C
<b>pH</b>	No data
<b>Flash point</b>	12.00 °C Closed Cup
<b>Evaporation rate</b>	7.70 (Ethyl Ether)
<b>Lower explosion limit/Upper explosion limit</b>	2.5 %(V) / 12 %(V)
<b>Vapor pressure</b>	6.052 kPa @ 25 °C
<b>Vapor density</b>	2.1 (AIR=1)
<b>Density</b>	0.789 g/cm <sup>3</sup> @ 60 °F / 16 °C 6.65 lb/gal @ 60.1 °F / 15.6 °C
<b>Solubility</b>	soluble in water
<b>Partition coefficient: n-octanol/water</b>	No data
<b>log Pow</b>	0.05
<b>Autoignition temperature</b>	750 °F / 399 °C

### 10. STABILITY AND REACTIVITY

#### Stability

Stable.

#### Conditions to avoid

Heat, flames and sparks.

#### Incompatible products

Acids, Aldehydes, alkalis, Amines, Ethylene oxide, halogenated hydrocarbons, halogens, isocyanates, Strong acids, Strong oxidizing agents, Do not use with aluminum equipment at temperatures above 120 degrees F.

#### Hazardous decomposition products

carbon dioxide and carbon monoxide

#### Hazardous reactions

Product will not undergo hazardous polymerization.

#### Thermal decomposition

No data

### 11. TOXICOLOGICAL INFORMATION

<b>Acute oral toxicity:</b>	LD 50 Rat: 4,700 - 5,800 mg/kg
<b>Acute inhalation toxicity:</b>	LC 50 Rat: 16000 ppm, 4 h
<b>Acute dermal toxicity:</b>	LD 50 Rabbit: 5,030 - 7,900 mg/kg

### 12. ECOLOGICAL INFORMATION

<b>Biodegradability</b>	
ISOPROPANOL:	no data available
<b>Bioaccumulation</b>	
ISOPROPANOL:	no data available
<b>Ecotoxicity effects</b>	
<b>Toxicity to fish</b>	
ISOPROPANOL:	96 h LC 50 Fathead minnow (Pimephales promelas): 5,770.00 - 7,450.00 mg/l Method: Flow through Mortality

**SAFETY DATA SHEET**

Revision Date: 01/13/2010

Print Date: 12/3/2012

MSDS Number: R0001444

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**Toxicity to daphnia and other aquatic invertebrates.**

ISOPROPANOL: 24 h static test LC 50 Water flea (Daphnia magna): > 10,000.00 mg/l  
Method: Static  
Mortality

**Toxicity to algae**

ISOPROPANOL: no data available

**Toxicity to bacteria**

ISOPROPANOL: no data available

**Biochemical Oxygen Demand (BOD)**

ISOPROPANOL: no data available

**Chemical Oxygen Demand (COD)**

ISOPROPANOL: no data available

**Additional ecological information**

ISOPROPANOL: no data available

**13. DISPOSAL CONSIDERATIONS**

**Waste disposal methods**

Dispose of in accordance with all applicable local, state and federal regulations.

**14. TRANSPORT INFORMATION**

**REGULATION**

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT /LTD. QTY.
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**U.S. DOT - ROAD**

UN 1219	Isopropanol	3		II	
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**U.S. DOT - RAIL**

UN 1219	Isopropanol	3		II	
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**U.S. DOT - INLAND WATERWAYS**

UN 1219	Isopropanol	3		II	
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**TRANSPORT CANADA - ROAD**

UN 1219	ISOPROPANOL	3		II	
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**TRANSPORT CANADA - RAIL**

UN 1219	ISOPROPANOL	3		II	
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**TRANSPORT CANADA - INLAND WATERWAYS**

UN 1219	ISOPROPANOL	3		II	
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**INTERNATIONAL MARITIME DANGEROUS GOODS**

UN 1219	ISOPROPANOL	3		II	
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**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO**

UN 1219	Isopropanol	3		II	
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**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER**

UN 1219	Isopropanol	3		II	
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**MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES**

UN 1219	ISOPROPANOL	3		II	
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\*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

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**15. REGULATORY INFORMATION**

**California Prop. 65**

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

**SARA Hazard Classification Fire**

Hazard

Acute Health Hazard

**New Jersey RTK Label Information**

ISOPROPANOL 67-63-0

**Pennsylvania RTK Label Information**

ISOPROPANOL 67-63-0

**Notification status**

Australia. Industrial Chemical (Notification and Assessment) Act	y (positive listing)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133)	y (positive listing)
China. Inventory of Existing Chemical Substances	y (positive listing)
Japan. Kashin-Hou Law List	y (positive listing)
Japan. Industrial Safety & Health Law (ISHL) List	y (positive listing)
US. Toxic Substances Control Act	y (positive listing)
EU. EINECS	y (positive listing)
Korea. Toxic Chemical Control Law (TCCL) List	y (positive listing)
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	y (positive listing)
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	y (positive listing)
Switzerland. Consolidated Inventory	y (positive listing)

	<b>HMIS</b>	<b>NFPA</b>
Health	1	1
Flammability	3	3
Physical hazards	--	--
Instability	--	0
Specific Hazard	--	--

**16. OTHER INFORMATION**

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

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***VOC and HAP REPORT***

<b>VOC Content (as formulated)</b>	100.00 %
<b>VOC Content (SCAQMD)</b>	789.00 g/l
<b>VOC Vapor Pressure @ 20°C (SCAQMD)</b>	60.52 hPa
<b>Calculated HAP Total</b>	0.00%
<b>Calculated Organic HAP Total</b>	0.00%

Hazardous Air Pollutants reported on this document are limited to those that are defined as hazardous under 29 CFR 1910.1200. It is possible that there are other Hazardous Air Pollutants in this product at levels that are not reportable by the OSHA Hazard Communication Standard. Certain air regulations require that these components be included in determinations of total HAP emissions. If you require information on the unreported Hazardous Air Pollutants, please contact your Cumberland Products Inc. account representative.

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