



**Chemical Name:** Electrical PowrOn

**Manufacturer:** Lawson Products

**Container Size:** 12 oz.

**Location:** VLA

**Disposal:** Place empty container in trash. Give partial or full container to safety officer.



# Material Safety Data Sheet

Revision Date 28-Jul-2008

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product code** 53858  
**Product name** PowrOn Contact Cleaner  
**Recommended Use** Cleaner / Degreaser  
**Supplier** Lawson Products, Inc.  
1666 East Touhy Avenue  
Des Plaines, IL 60018  
(847)-827-9666  
**Emergency telephone number** (888) 426-4851

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

May be harmful if swallowed.

**Color** Clear

**Odor** Characteristic

**Form** Aerosol

**Aggravated Medical Conditions** Pre-existing respiratory disorders. Pre-existing skin conditions may be aggravated by exposure to this product.

**Principal Routes of Exposure** Eyes. Skin. Inhalation. Ingestion.

### Potential health effects

**Eyes** Prolonged or repeated exposure may cause . Irritation. Redness. Tearing. Swelling. Burning sensation.

**Skin** Prolonged skin contact may cause skin irritation and/or dermatitis. Redness. Burning sensation.

**Inhalation** Dizziness. Nausea. In confined or poorly ventilated areas, vapors can readily accumulate and can cause unconsciousness and death. Misuse by deliberately concentrating vapors and inhaling contents can be harmful or fatal.

**Ingestion** Irritating to mouth, throat and stomach. Vomiting. Weakness. Central nervous system effects.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Carbon Dioxide	124-38-9	1-5
Isopropyl alcohol	67-63-0	1-5
1,1,1,2-Tetrafluoroethane	811-97-2	5-10
n-Propyl bromide	106-94-5	60-100
1,2-Butylene oxide	106-88-7	< 1
tert-Butyl alcohol	75-65-0	< 1

### 4. FIRST AID MEASURES

<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical attention immediately.
<b>Skin contact</b>	Wash area thoroughly with soap and water. Remove contaminated clothing. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.
<b>Ingestion</b>	Do not induce vomiting. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Keep head below hips if vomiting occurs. Call a physician or Poison Control Center immediately.
<b>Inhalation</b>	Move to fresh air. Administer artificial respiration if not breathing. Seek medical attention.

### 5. FIRE FIGHTING MEASURES

<b>Flash point °C</b>	None
<b>Flash point °F</b>	None
<b>Method</b>	Tag closed cup
<b>Autoignition temperature °C</b>	No data available
<b>Autoignition temperature °F</b>	No data available
<b>Flammability Limits (% in Air)</b>	
<b>Upper</b>	8
<b>Lower</b>	4

#### Specific Information for Aerosol Products

<b>Flame extension</b>	None
<b>Flashback</b>	None

#### **Suitable extinguishing media**

Water spray. Water fog. Carbon dioxide (CO<sub>2</sub>). Dry chemical.

#### **Special protective equipment for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

#### **Special Fire-Fighting Procedures**

Water should be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. Do not release run-off from fire control methods to sewers or waterways .

**Sensitivity to shock**

No information available.

**Sensitivity to static discharge**

No information available.

## 6. ACCIDENTAL RELEASE MEASURES

**Environmental precautions**

Should not be released into the environment. Prevent product from entering drains.

**Clean-up methods - small spill**

Wipe or scrape up and dispose of spill.

**Clean-up methods - large spill**

Ventilate area to maintain exposure below permissible exposure limits. Dike or dam large spills. Soak up excess with absorbent material. Pick up and transfer to properly labelled containers.

## 7. HANDLING AND STORAGE

**Handling**

Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Direct spray away from face. Wash hands with soap and water before eating, drinking, smoking, or using toilet facilities. Avoid breathing vapors or mists. Do not smoke while using. Use only according to label directions.

**Storage**

Keep in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Keep away from direct sunlight. Keep out of the reach of children.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure limits

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
n-Propyl bromide	-	-	10 ppm	-
1,1,1,2-Tetrafluoroethane	-	-	-	-
Carbon Dioxide	5000 ppm 9000 mg/m <sup>3</sup>	-	5000 ppm	30000 ppm
Isopropyl alcohol	400 ppm 980 mg/m <sup>3</sup>	-	200 ppm	400 ppm
tert-Butyl alcohol	100 ppm 300 mg/m <sup>3</sup>	-	100 ppm	-
1,2-Butylene oxide	-	-	-	-

### **Ventilation and Environmental Controls**

Adequate ventilation should be provided to keep exposure levels below current acceptable exposure limits.

### **Hygiene measures**

General industrial hygiene practice. Wash hands before eating or using the washroom.

### **Personal protective equipment**

#### **Respiratory protection**

None required if adequate ventilation is provided. If the exposure limits are exceeded, a NIOSH/MSHA approved respirator is recommended.

#### **Hand Protection**

Protective gloves.

#### **Eye protection**

Goggles. Safety glasses.

#### **Skin and body protection**

Wear appropriate clothing to minimize skin contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form</b>	Aerosol	<b>Color</b>	Clear
<b>Odor</b>	Characteristic	<b>Odor Threshold</b>	50 ppm
<b>pH</b>	No data available	<b>Specific Gravity</b>	No data available
<b>Vapor pressure</b>	112 mmHg @ 70°F	<b>Vapor density</b>	No data available
<b>Evaporation Rate</b>	>1 (Butyl Acetate = 1)	<b>VOC Content</b>	100
<b>Water solubility</b>	Negligible	<b>Partition Coefficient (n-octanol/water)</b>	No data available
<b>Boiling point/range °C</b>	68	<b>Boiling point/range °F</b>	156
<b>Melting point/range °C</b>	No data available	<b>Melting point/range °F</b>	No data available
<b>Flash point °C</b>	None	<b>Flash point °F</b>	None

## 10. STABILITY AND REACTIVITY

**Stability**

Stable.

**Conditions to avoid**

No information available

**Incompatibility**

Strong oxidizers. Strong bases.

**Hazardous Decomposition Products**

Hydrogen bromide. Carbon monoxide. Carbon dioxide.

**Polymerization**

Will not occur.

## 11. TOXICOLOGICAL INFORMATION

**Component Information**

Chemical Name	LD50 (oral, rat)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat)
<i>n</i> -Propyl bromide 106-94-5	253 g/m <sup>3</sup> 3600 mg/kg	253 g/m <sup>3</sup> 3600 mg/kg	253 g/m <sup>3</sup> 3600 mg/kg
1,1,1,2-Tetrafluoroethane 811-97-2	1500 g/m <sup>3</sup>	1500 g/m <sup>3</sup>	1500 g/m <sup>3</sup>
Carbon Dioxide 124-38-9	836 ppm	836 ppm	836 ppm
Isopropyl alcohol 67-63-0	12800 mg/kg 12870 mg/kg 4396 mg/kg 72.6 mg/L	12800 mg/kg 12870 mg/kg 4396 mg/kg 72.6 mg/L	12800 mg/kg 12870 mg/kg 4396 mg/kg 72.6 mg/L
<i>tert</i> -Butyl alcohol 75-65-0	2733 mg/kg 2000 mg/kg 9700 ppm	2733 mg/kg 2000 mg/kg 9700 ppm	2733 mg/kg 2000 mg/kg 9700 ppm
1,2-Butylene oxide 106-88-7	1757 mg/kg 500 mg/kg 6.3 mg/L	1757 mg/kg 500 mg/kg 6.3 mg/L	1757 mg/kg 500 mg/kg 6.3 mg/L

**Synergistic Products**

None known

**Potential health effects**

**Sensitization**

None known

**Chronic toxicity**

None known

**Mutagenic effects**

None known

**Teratogenic effects**

None known

**Reproductive toxicity**

None known

**Target Organ Effects**

See Section 2

**Carcinogenic effects**

See table below

Chemical Name	ACGIH OEL - Carcinogens	IARC	NTP - Known Carcinogens	NTP - Suspected Human Carcinogens	OSHA RTK Carcinogens
n-Propyl bromide	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
1,1,1,2-Tetrafluoroethane	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Carbon Dioxide	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Isopropyl alcohol	A4 - Not Classifiable as a Human Carcinogen	Group 1	Not Listed	Not Listed	Listed
tert-Butyl alcohol	A4 - Not Classifiable as a Human Carcinogen	Not Listed	Not Listed	Not Listed	Not Listed
1,2-Butylene oxide	Not Listed	Group 2B	Not Listed	Not Listed	Listed

## 12. ECOLOGICAL INFORMATION

**Isopropyl alcohol****Microtox Data***Photobacterium phosphoreum* EC50=35390 mg/L (5 min)**Water Flea Data***Daphnia magna* EC50=13299 mg/L (48 h)**tert-Butyl alcohol****Microtox Data***Pseudomonas putida* EC50>10000 mg/L (17 h)**Water Flea Data***Daphnia magna* EC50=933 mg/L (48 h)**1,2-Butylene oxide****Microtox Data***Pseudomonas putida* EC50=4840 mg/L (17 h)**Water Flea Data***Daphnia magna* EC50=69.8 mg/L (48 h)**Aquatic toxicity**

Use with care when applying in areas adjacent to any body of water. Do not contaminate water when disposing of equipment washwater

### 13. DISPOSAL CONSIDERATIONS

**Disposal Information**

Prevent waste from contaminating surrounding environment.

**Waste from residues / unused products**

Dispose in accordance with federal, state, and local regulations.

### 14. TRANSPORT INFORMATION

**DOT**

UN1950 Aerosols, non-flammable, 2.2

*Exception:* (Compressed Gas not more than 1.0L) Consumer Commodity ORM-D**TDG**

UN1950 AEROSOLS, non-flammable, 2.2

**IMDG/IMO**

UN1950 Aerosols, flammable, 2.1

**IATA**

UN1950 Aerosols, non-flammable, 2.2

**MEX**

UN1950 Aerosols, nonflammable, 2.2

### 15. REGULATORY INFORMATION

Chemical Name	US EPA SARA 313 Emission Reporting
Isopropyl alcohol	Listed
tert-Butyl alcohol	Listed
1,2-Butylene oxide	Listed

Chemical Name	New Jersey - RTK	Pennsylvania - RTK	California Prop. 65
n-Propyl bromide	Not Listed	Listed	Developmental Female Reproductive Male Reproductive
1,1,1,2-Tetrafluoroethane	Not Listed	Not Listed	
Carbon Dioxide	Listed	Listed	Not Listed
Isopropyl alcohol	Listed	Listed	Not Listed
tert-Butyl alcohol	Listed	Listed	Not Listed
1,2-Butylene oxide	Listed	Listed	Not Listed

Chemical Name	Type
n-Propyl bromide - 106-94-5	Male Reproductive Female Reproductive

<b>Chemical Name</b>	<b>EINECS</b>	<b>DSL</b>	<b>NDSL</b>	<b>TSCA</b>
n-Propyl bromide	X	X	-	X
1,1,1,2-Tetrafluoroethane	X	X	-	X
Carbon Dioxide	X	X	-	X
Isopropyl alcohol	X	X	-	X
tert-Butyl alcohol	X	X	-	X
1,2-Butylene oxide	X	X	-	X

**CPRC**

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all of the information required by the Controlled Product Regulations

## 16. OTHER INFORMATION

<b>NFPA</b>		<b>HMIS</b>	
<b>Health</b>	-	<b>Health</b>	2
<b>Flammability</b>	-	<b>Flammability</b>	1
<b>Reactivity</b>	-	<b>Physical Hazard</b>	1

**Prepared By**

C. McHugh, Regulatory Affairs Specialist

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.