

000573 ✓

NFPA Rating				HMIS Rating			
Health	Flammability	Reactivity	Special	Health	Flammability	Reactivity	Personal Protection
1	3	0	NA	1	3	0	B

<b>Material Safety Data Sheet</b> This MSDS complies with OSHA's Hazard Comm. Standard 29 CFR 1910.1200 and OSHA Form 174				DOT Hazard Classification * Consumer Commodity, ORM-D			
Manufactured For: Hillyard Industries, Inc.				Identity (Trade Name) #181, Disinfectant-Deodorant			
Address: P.O. Box 909 St. Joseph, MO 64502				MSDS Number * 181-95-1			
Telephone (Information) (816) 233-1321 (Ext. 303)				Date Prepared: February 14, 1995			
Telephone (Emergency) CHEMTREC (800) 424-9300				Prepared By: Regulatory Dept.			
NOTE: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.							

SECTION II - MATERIAL IDENTIFICATION AND INFORMATION						
COMPONENTS - Chemical Name & Common Names	CAS Number	Regulatory Reference **	Approx. wt %	OSHA PEL (ppm)	ACGIH TLV (ppm)	Carcinogen Reference Source***
Ethyl alcohol	64-17-5	b,c,d,e,f,g,i,j	68.00	1000	1000	d
o-Phenylphenol	90-43-7	f,g,i	0.19	None	None	d
Other non-regulated ingredients:	Mixture	None	25 - 35	None	None	d

SECTION III Physical/Chemical Characteristics			
Boiling Point	176 ° F	Specific Gravity (H <sub>2</sub> O = 1) @70° F	0.83
Vapor Pressure (mm-Hg @ 70 ° F)	No Data	Melting Point	Not Applicable
Vapor Density (AIR = 1)	Less than one (1)	Evaporation Rate (Ethyl Ether = 1)	No Data
Solubility in Water	Complete	pH	8.5 + 0.5

Appearance and Odor -  
Clear light yellow liquid with a floral-alcohol scent.

SECTION IV - Fire and Explosion Hazard Data			
Flash Point (Method Used) 73° F (TCC)	Flammable Limits No Data	LEL No Data	UEL No Data

Extinguishing Media - Carbon dioxide, dry chemical, foam, fog, or water spray.

Special Fire Fighting Procedures - Keep containers cool and vapors down with water spray. Prevent runoff from entering sewers and public waterways. Wear SCBA in chemical fires.

Unusual Fire and Explosion Hazards - Flammable liquid.

* Optional	** Regulated by:	<table border="1"> <tr><td>a. CA</td><td>f. MA</td><td>k. Calif. Prop. 65</td></tr> <tr><td>b. CT</td><td>g. NJ</td><td>l. Title III, Sec. 313</td></tr> <tr><td>c. FL</td><td>h. NY</td><td>m. Other</td></tr> <tr><td>d. IL</td><td>i. PA</td><td></td></tr> <tr><td>e. LA</td><td>j. RI</td><td></td></tr> </table>	a. CA	f. MA	k. Calif. Prop. 65	b. CT	g. NJ	l. Title III, Sec. 313	c. FL	h. NY	m. Other	d. IL	i. PA		e. LA	j. RI		*** Chemical listed as Carcinogen or Potential Carcinogen	<table border="1"> <tr><td>a. NTP</td></tr> <tr><td>b. IARC Monographs</td></tr> <tr><td>c. OSHA</td></tr> <tr><td>d. Not listed</td></tr> <tr><td>e. Animal data only</td></tr> </table>	a. NTP	b. IARC Monographs	c. OSHA	d. Not listed	e. Animal data only
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**SECTION V - Reactivity Data**

<b>Stability</b>	<b>Unstable</b>		<b>Conditions to Avoid</b> - None known
	<b>Stable</b>	X	
<b>Incompatibility (Materials to Avoid)</b> - Strong acids and oxidizers.			
<b>Hazardous Decomposition or Byproducts</b> - Carbon dioxide, carbon monoxide			
<b>Hazardous Polymerization</b>	<b>May Occur</b>		<b>Conditions to Avoid</b> - None known
	<b>Will Not Occur</b>	X	

**SECTION VI - Health Hazard Data**

<b>Route(s) of Entry</b>	<b>Eyes?</b>	<b>Inhalation?</b>	<b>Skin?</b>	<b>Ingestion?</b>
	Yes	Yes	Yes	No
<b>Health Hazards (Acute =1 and Chronic =2)</b> - Danger. Flammable. 1. Corrosive. Causes eye damage. Harmful or fatal if swallowed. Causes skin irritation. 2. None known to manufacturer.				
<b>Carcinogenicity:</b>	<b>NTP?</b>	<b>IARC Monographs?</b>	<b>OSHA Regulated?</b>	
None known	No	No	No	

**Signs and Symptoms of Exposure** - Redness, tearing or burning in eyes. Redness, drying or cracking skin. Nausea or vomiting if ingested.

**Medical Conditions Generally Aggravated by Exposure** - Pre-existing skin conditions may be adversely affected.

**Emergency and First Aid Procedures -**

**Eyes** - Immediately flush with copious amounts of water, lifting eyelids to insure complete removal. Flush for 15 minutes minimum. Consult a physician. **Ingestion** - Immediately drink a large quantity of water. Contact a physician immediately.

**Inhalation** - Get to fresh air. If breathing has stopped, qualified personnel should administer artificial respiration. **Skin** - Flush with water 15 minutes minimum. If irritation persists, consult a physician.

**SECTION VII - Precautions for Safe Handling and Use**

**Steps to be Taken in Case Material is Released or Spilled** - Wipe up small spills. For large spills - Isolate and ventilate area. Eliminate all ignition sources. Wear protective equipment as required. Pick up with absorbent material. Put in suitable container for proper disposal.

**Waste Disposal Method** - Do not contaminate water, food or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Do not reuse empty container. Rinse container thoroughly and discard in trash. Consult local, state, and federal regulations. Follow label directions for disposal of infectious wastes.

**Precautions to be Taken in Handling and Storing** - Do not get in eyes. Do not get on skin or on clothing. Do not use around ignition sources such as heat, sparks, open flame, etc. Do not swallow. Avoid inhaling mist.

**Other Precautions** - Follow label directions carefully. Keep out of reach of children. Keep container tightly sealed when not in use. Do not contaminate water, food, or feed by storage or disposal. Store containers indoors and in a dry area. Keep from freezing. Use from the original container only.

**SECTION VIII - Control Measures**

**Respiratory Protection (Specify Type)** - Not usually necessary. Use with adequate ventilation. Use NIOSH/MSHA approved respirator if PELs or TLVs are exceeded.

<b>Ventilation</b>	<b>Local Exhaust</b>	Not usually necessary	<b>Special</b>	None
	<b>Mechanical (General)</b>	Yes	<b>Other</b>	None

**Protective Gloves** - Yes (Rubber) **Eye Protection** - Goggles or faceshield

**Other Protective Clothing or Equipment** - Not usually necessary.

**Work/Hygienic Practices** - Normal. Wash hands after use and before eating, drinking, smoking, using restrooms, etc.

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