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### Material Safety Data Sheet

be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

020843

U.S. Department of Labor  
Occupational Safety and Health Administration  
(Non-Mandatory Form)  
Form Approved  
OMB No. 1218-0072

KM 686  
KM 687  
*[Handwritten signature]*

IDENTITY (As Used on Label and List)  
**Phenolphthalein Indicator Solution**

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 I (in Ethanol)

Manufacturer's Name

**Columbus Chemical Industries, Inc.**

Address (Number, Street, City, State, and ZIP Code)

**N4335 Temkin Road**

**Columbus, WI 53925**

Emergency Telephone Number

**(414) 623-2140**

Telephone Number for Information

**(414) 623-2140**

Date Prepared

**3/31/87**

Signature of Preparer (optional)

#### Section II — Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	CAS #	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Phenolphthalein	CAS #77-09-8	none	none	none	1%
Ethyl Alcohol, 95%	CAS #64-17-5		1000ppm		99%

Please reference the Material Safety Data Sheet for Ethyl Alcohol, 95% for specific information. Since the Ethyl Alcohol is the major component and the most hazardous, pay special attention to its contents and emphasize the information on its MSDS sheet, which is attached. Phenolphthalein is relatively nonhazardous.

#### Section III — Physical/Chemical Characteristics (Essentially the same as for Ethyl Alcohol, 95%)

Boiling Point	170.6°F	Specific Gravity (H <sub>2</sub> O = 1)	0.7920
Vapor Pressure (mm Hg.)	0.9 psia	Melting Point	N/A
Vapor Density (AIR = 1)	1.6	Evaporation Rate (Butyl Acetate = 1)	3.3

Solubility in Water **Complete**

Appearance and Odor

**Water-white liquid; mild and nonresidual odor**

#### Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
<b>51°F closed cup (Ethyl Alcohol)</b>	<b>(Ethyl Alcohol)</b>	<b>3.3</b>	<b>19.0</b>

Extinguishing Media

Carbon dioxide. Dry chemical. Alcohol-type foam. Water spray. Universal-type foam.

Special Fire Fighting Procedures

Water spray will reduce the intensity of the flame. Use self-contained breathing apparatus.

Avoid using a solid stream of water as this will cause frothing and scattering of material.

Unusual Fire and Explosion Hazards

Product may accumulate a static electric charge under certain condition. This can be large enough to cause a fire or explosion if discharged in a vapor-air mixture within flammable limits

