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## MATERIAL SAFETY DATA SHEET — 16 Sections

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier Phenolphthalein Indicator, 1% (w/v) in 95% (v/v) Alcohol, Neutralized		[WHMIS Classification]	
Product Use General Laboratory Reagent			
Manufacturer's Name James Instruments, Inc.		Supplier's Name Ricca Chemical Company	
Street Address 3727 N Kedzie Ave.		Street Address 448 West Fork Drive	
City Chicago		State IL	City Arlinton
Postal Code 60618		Emergency Telephone 800-424-9300	State Texas
Date MSDS Prepared July 22, 2019		MSDS Prepared By James Instruments, Inc.	Emergency Telephone (800)-424-9300
		Phone Number 1-773-463-6565	

### SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients ( <i>specific</i> )	%	CAS Number	LD <sub>50</sub> of Ingredient ( <i>specify species and route</i> )	LC <sub>50</sub> of Ingredient ( <i>specify species</i> )
Ethyl Alcohol (CH <sub>3</sub> CH <sub>2</sub> OH)	89.27	81-88-9	N/A	N/A
Water (H <sub>2</sub> O)	5.02			
Methyl Alcohol (CH <sub>3</sub> OH)	4.46	67-56-1	N/A	N/A
Phenolphthalein (C <sub>20</sub> H <sub>14</sub> O <sub>4</sub> )	1.25	77-09-8	N/A	N/A
Sodium Hydroxide (NaOH)	0.00	1310-73-2	N/A	N/A

### SECTION 3 — HAZARDS IDENTIFICATION

Route of Entry	<input checked="" type="checkbox"/> Skin Contact	<input type="checkbox"/> Skin Absorption	<input checked="" type="checkbox"/> Eye Contact	<input checked="" type="checkbox"/> Inhalation	<input checked="" type="checkbox"/> Ingestion
[Emergency Overview] -					
WHMIS Symbols]					
Potential Health Effects					
*Skin: May cause dryness or cracking of the skin which can lead to secondary infection and dermatitis.					
*Eyes: May cause irritation, burning, and stinging with possible damage to the cornea and conjunctiva.					
*Inhalation: May cause irritation of the respiratory system.					
*Ingestion: Flammable liquid. Primarily toxic by ingestion					

### SECTION 4 — FIRST AID MEASURES

Skin Contact	IF ON SKIN (an hair): Take off immediately all contaminated clothing. Rinse skin with water.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if possible and easy to do then continue rinsing.
Inhalation	Not expected to require first aid. If necessary, remove to fresh air.
Ingestion	Dilute immediately with water or milk. Induce vomiting. Call a physician.

SAMPLE FORMAT PROVIDED BY THE WORKERS' COMPENSATION BOARD OF BRITISH COLUMBIA

57M6 (6/99)

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**SECTION 5 — FIRE FIGHTING MEASURES**

Flammable <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, under which conditions? Vapors can flow along surfaces to distant ignition source and flashback.	
Means of Extinction Use dry chemical alcohol foam, or carbon dioxide for extinguishing the surrounding fire. Use water as fog in flooding quantities. Water can be used to dilute spills to non-flammable mixtures.		
Flashpoint (° C) and Method 60 Deg. Fahrenheit	Upper Flammable Limit (% by volume) DATA NOT AVAILABLE	Lower Flammable Limit (% by volume) DATA NOT AVAILABLE
Autoignition Temperature (°C) DATA NOT AVAILABLE	Explosion Data — Sensitivity to Impact DATA NOT AVAILABLE	Explosion Data — Sensitivity to Static Discharge DATA NOT AVAILABLE
Hazardous Combustion Products DATA NOT AVAILABLE		
[NFPA]		

**SECTION 6 — ACCIDENTAL RELEASE MEASURES**

Leak and Spill Procedures
Wear protective gloves and eye protection. Remove all sources of ignition. Contain spill. Do not flush with water. Absorb with suitable inert Material (vermiculite, dry sand, etc.) and place in chemical waste container for proper disposal in approved waste disposal facility. Ventilate area of spill. Have an extinguisher agent available in case of fire. Use non-sparking tools and equipment. Dispose of in accordance with local regulations.

**SECTION 7 — HANDLING AND STORAGE**

Handling Procedures and Equipment
Ground container and receiving equipment. Use explosive-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharge. As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage.
Storage Requirements
Store in a secure, flammable storage away from all sources of ignition. Empty containers may be hazardous since they retain product residue.
Store in a well ventilated place. Keep cool. Store locked-up.

**SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION**

Exposure Limits	<input checked="" type="checkbox"/> ACGIH TLV	<input checked="" type="checkbox"/> OSHA PEL	<input type="checkbox"/> Other ( <i>specify</i> )
Specific Engineering Controls ( <i>such as ventilation, enclosed process</i> ) A system of local and/or general exhaust is recommended to keep employes exposures below the airborne Exposure limit.			
Personal Protective Equipment	<input checked="" type="checkbox"/> Gloves	<input checked="" type="checkbox"/> Respirator	<input checked="" type="checkbox"/> Eye <input type="checkbox"/> Footwear <input type="checkbox"/> Clothing <input type="checkbox"/> Other
If checked, please specify type Normal room ventilation is adequate. If the exposure limit exceeded, a full face-piece respiratory with organic vapor cartridges may be worn.			
Skin Protection: Wear protective chemicals resistant gloves. Eye Protection: Wear protective safety glasses or goggles.			

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State Liquid	Odour and Appearance Colorless to slightly pink liquid. Odor: N/A	Odour Threshold (ppm) Odor: DATA NOT AVAILABLE
Specific Gravity DATA NOT AVAILABLE	Vapour Density (air = 1) \\ DATA AVAILABLE	Vapour Pressure (mmHg) DATA AVAILABLE
Evaporation Rate DATA NOT AVAILABLE	Boiling Point (° C) Approx. 77 Deg. Celsius	Freezing Point (° C) Approx. 0 Deg. Celsius
pH DATA NOT AVAILABLE	Coefficient of Water/Oil Distribution DATA NOT AVAILABLE	[Solubility in Water] Miscible

## SECTION 10 — STABILITY AND REACTIVITY

Chemical Stability <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If no, under which conditions?
Incompatibility with other Substances <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, which ones? Keep away from Oxidizers, Platinum, Sodium, Potassium Dioxide, and Bromine.
Stable under normal conditions of use and storage,	
Reactive, and under what conditions? DATA NOT AVAILABLE	
Hazardous Decomposition Products Will not occur.	

## SECTION 11 — TOXICOLOGICAL INFORMATION

Effects of Acute Exposure			
Causes damage to organs. Do not breath dust, fumes or mist. Wash arms, hands, and face thoroughly after handling. Do not eat, drink or smoke when using this product. IF exposed: Call a POISON CENTER or physician. Specific treatment (wash area of contact with water immediately) Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.			
Effects of chronic exposure			
Causes damage to organs through prolonged or repeated exposure. Do not breath dust, fumes or mist. Wash arms, hands, and face thoroughly after handling. Do not eat, drink or smoke when using this product. IF exposed: Call a POISON CENTER or physician. Specific treatment (wash area of contact with water immediately) Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.			
Irritancy of Product		Causes serious eye irritation, Wash arms, hands, and face thoroughly. IF irritation persists seek medical help	
Skin sensitization	Wera protective gloves and eye protection.	Respiratory sensitization	DATA NOT AVAILABLE
Carcinogenicity-IARC	May cause cancer.	Carcinogenicity - ACGIH	May cause cancer.
Reproductive toxicity	May damage fertility or the unborn child.	Teratogenicity	DATA NOT AVAILABLE
Embrototoxicity	DATA NOT AVAILABLE	Mutagenicity	May cause cell mutation. Obtain special instruction before use.
Name of synergistic products/effects		DATA NOT AVAILABLE	

## SECTION 12 — ECOLOGICAL INFORMATION

[Aquatic Toxicity]

DATA NOT AVAILABLE

## SECTION 13 — DISPOSAL CONSIDERATIONS

Waste Disposal

Dispose of contents in accordance with local state, federal, and international regulations.

## SECTION 14 — TRANSPORT INFORMATION

Special Shipping Information

7732-18-5

N/A

PIN

N/A

TDG

[DOT] UN1987, Alcohol, n.o.s., (Ethanol and Methanol) Hazard Class: 3, Packing group II

[IMO]

[ICAO] UN1987, Alcohol, n.o.s., (Ethanol and Methanol) Hazard Class: 3, Packing group II

## SECTION 15 — REGULATORY INFORMATION

[WHMIS Classification] Not included based on the recommended (Option 4) Canada Gazette Part II, Vol. 149, No.3, page 458

[OSHA]

Not listed. In accordance with OSHA HCS CFR 1910. 1200

[SERA]

[TSCA]

(1310-73-2)Present, (64-17-5)Present, (67-56-5)Present, (77-09-8)Present, (7732-18-5)Present.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.

## SECTION 16 — OTHER INFORMATION

LD50, Oral, Rat: >1 gm/kg (Phenolphthalein); (Methanol) 5628 mg/kg; (Ethanol) 7060 mg/kg. Details of toxic effects not reported other than dose value.

When handled properly by qualified personnel, the product describe herein does not present a significant health or safety hazard. Alteration of its characteristics be concentration, evaporation, addition of other substance or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.

Last Revision Date: 04/25/2018