



MATERIAL SAFETY DATA SHEET

1. Chemical Product & Company Data

Product name Microban DDC	
Manufacturer: Il Rep-Z, Inc. 4660 Elizabeth St. Coraopolis, PA 15108 Telephone: 1-412-264-8340	Supplier:

2. Hazardous Ingredients

Name	CAS #	UN #	% by volume
Orthophosphoric acid	7664-38-2		10-30
Alkylphenol ethoxylate (nonionic surfactant)	9016-45-9		10-30
Iodine	7553-56-2		1-5

3. Hazards Identification

Emergency Overview

Corrosive liquid

NOTE: Hazard information is based on the characteristics of the components of this mixture.

Ingestion - will cause burns and irritation to the gastrointestinal tract

Inhalation - mist causes irritation of the respiratory tract

Eye contact - causes severe eye irritation and possible corneal injury due to burns

Skin contact - contact with the liquid will cause skin burns

4. First Aid

Ingestion - give several glasses of water to dilute product. **Do not** induce vomiting. Seek medical attention.

Inhalation - remove to fresh air. If irritation develops or persists seek medical attention.

Eye contact - flush eyes immediately with water for 15 minutes. Seek medical attention.

Skin contact - remove affected clothing. Flush with water for 15 minutes. If irritation develops seek medical attention.

5. Fire Fighting Measures

Flammability Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If yes, under which conditions ?		
Flashpoint 200 °F (93.3 °C)	Upper flammable limit % by volume	Lower flammable limit % by volume	
Autoignition temperature		Hazardous combustion products	
Explosion data:			
Means of extinction:			

6. Accidental Release Measures

Wear personal protective equipment
 Contain spill with absorbent mats or booms or inert materials such as sand. Material should be readily available in the workplace. Do not allow spill to reach watercourse or sewers
 Collect and store waste materials in suitable containers for disposal i.e. closed polyethylene drums
 Flush area well with water after clean up

7. Handling & Storage

Wear personal protective equipment
 If eye irritation is encountered the use of a full facepiece respirator is recommended.
 Mechanical ventilation is recommended in enclosed workspaces.
 Area should be evacuated of all non essential personnel prior to application of product.
 Store product away from oxidizers, reducing agents, alkalies and chlorinated compounds.
 Do not store product in metal containers

8. Exposure Controls & Personal Protection

Personal Protective Equipment				
Gloves natural rubber	Respirator NIOSH TC-23C for organic vapors + dust & mist prefilter		Eye goggles or full face respirator	
Footwear n. ap.	Clothing coveralls or equivalent		Other n. ap.	
Exposure Guidelines				
* none established for product *				
	OSHA TWA STEL		ACGIH TWA STEL	
Orthophosphoric acid	1 mg/m3	3 mg/m3	1 mg/m3	3 mg/m3
Iodine			1 mg/m3 (C)	-
(C) = ceiling limit				

Microban DDC

9. Physical & Chemical Properties

Physical state liquid	Odor and appearance dark brown liquid, mild iodine odor	
Odor threshold (ppm) n. av.	Vapor pressure (mm Hg) 24	Vapor density (Air=1) 1
Evaporation rate (butyl acetate = 1) 1	Boiling point 415 °F (213 °C)	Freezing point n. av.
pH 1.7	Specific gravity 1.13	Coefficient water/oil distribution n. av.
Solubility in water 100 %	Viscosity n. av.	% Volatiles (by weight) 65

10. Stability & Reactivity

Chemical stability Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If no, under which conditions ?
Incompatibility with other substances Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, under which conditions ? avoid contact with reducing agents, oxidizers, alkalies and chlorinated products
Reactivity, and under what conditions?	Stable under normal conditions
Hazardous decomposition products	Iodine vapors may be released with high heat exposure. Chlorine gas will be liberated if product comes in contact with chlorinated compounds

11. Toxicological Information

Route of Entry Skin contact <input checked="" type="checkbox"/> Skin absorption <input type="checkbox"/> Eye contact <input checked="" type="checkbox"/> Inhalation <input checked="" type="checkbox"/> Ingestion <input checked="" type="checkbox"/>			
No toxicity studies have been conducted for the product			
Orthophosphoric acid (85 %) LD ₅₀ oral, rat 3500 mg/kg LD ₅₀ dermal, rat 1260 mg/kg			
Carcinogenicity no	Mutagenicity no	Teratogenicity no	Reproductive toxicity no
Synergistic products no	Sensitization no	Neurotoxicity no	Target organs skin and eyes

12. Ecological Information

n. av.

13. Disposal Considerations

Do not dispose of product in storm or sanitary sewer systems.
 Do not allow discharge into groundwater or a watercourse.
 If product is to be disposed of, contact a licensed or registered waste disposal firm to incinerate the product.

14. Transport Information

Shipping name CORROSIVE LIQUIDS, N. O. S. (Contains: Phosphoric Acid Compound)

Hazard class 8 (Packing Group II)

UN Identification # 1760

Quarts ship as Consumer Commodity in United States.

15. Regulatory Information

This material safety data sheet has been prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the Hazardous Products Act (Can.) and the Controlled Products Regulations (Can.) This product has been classified in accordance with the hazard criteria of the CPR (Can.) and the MSDS contains all the information required by the CPR (Can.).

This product is classed as a **corrosive** - 29 CFR 1910.1200 and Controlled Products Regulations (Can.)

WHMIS classification **E**

This product is not subject to the reporting requirements of Section 313 of Title III of Superfund Amendments and Reauthorization Act (SARA) 1986 and 40 CFR part 372

16. Other Information

This product is used as a commercial cleaner and sanitizer

For chemical emergency during transportation call INFOTRAC (US) **1-800-535-5053** (INT'L) **1-352-323-3500**

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abbreviations

n. av. = not available n. ap. = not applicable ppm = parts per million mm Hg = millimeters of Mercury
 cs = centistokes PMCC = Pensky Martens Closed Cup TCC = Tagliabue Closed Cup COC = Cleveland Open Cup
 TWA = time weighted average STEL = short term exposure limit LD= lethal dose LC=lethal concentration