



Material Safety Data Sheet

1. Chemical Product & Company Data

Product Name: Microban DDC	
Manufacturer: Il Rep-Z, Inc. 4660 Elizabeth Street 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 - If patient is conscious give two glasses of water. Do not induce vomiting. Seek medical attention immediately.
Inhalation - Remove to fresh air. Administer artificial respiration if not breathing.
Eye Contact - Flush eyes with water for 15 minutes. Seek immediate medical attention.
Skin Contact - Remove contaminated clothing. Flush with water for 15 minutes. If irritation develops seek medical attention.

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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 organic vapor respirator or equivalent		Eye Goggles or full face respirator	
Footwear n. ap.	Clothing Coveralls or equivalent		Other n. ap.	
Exposure Guidelines				
none established for product				
	OSHA		ACGIH	
	TWA	STEL	TWA	STEL
Orthophosphoric Acid	1 mg/m ³	3 mg/m ³	1 mg/m ³	3 mg/m ³
Iodine			1 mg/m ³ (C)	-
(C) = Ceiling Limit				

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9. Physical and 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 (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 and 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%)	LD50 oral, rat 3500 mg/kg	LD50 dermal, rat 1260 mg/kg	
Carcinogenicity No	Mutagenicity No	Teratogenicity No	Reproductive toxicity No
Synergistic products No	Sensitization No	Neurotoxicity No	Target organs Eyes and Skin

12. Ecological Information

n. av.

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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 requirement 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 a commercial cleaner and sanitizer chemical.

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

mm Hg = millimeters of Mercury

COC = Cleveland Open Cup

LD = Lethal Dose

n. ap. = not applicable

PMCC = Pensky Martens Closed Cup

TWA = Time Weighted Average

LC = Lethal Concentration

ppm = parts per million

TCC = Tagliabue Closed Cup

STEL = Short Term Exposure Limit

CS = centistokes