



MATERIAL SAFETY DATA SHEET

1. Chemical Product & Company Data

Product name Porcelain Chrome & Coil Cleaner Concentrate	
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
1-methoxy-2-propanol	107-98-2		10-30
Octylphenoxyethoxyethanol (nonionic surfactant)	9036-19-5		10-30

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.

Porcelain Chrome & Coil Cleaner Concentrate

5. Fire Fighting Measures

Flammability Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, under which conditions ? avoid conditions of high ambient heat		
Flashpoint 200 °F (93.3 °C)	Upper flammable limit % by volume n. av.	Lower flammable limit % by volume n. av.	
Autoignition temperature n. av.	Hazardous combustion products carbon monoxide and/or carbon dioxide, oxides of phosphorus		
Explosion data: n. ap.			
Means of extinction: Apply alcohol type or all purpose foam for large fires. Use dry chemical media or carbon dioxide extinguishers for small fires. SCBA and bunker gear for fire department personnel			

6. Accidental Release Measures

<p>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</p>
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7. Handling & Storage

<p>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</p>
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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		ACGIH	
	TWA	STEL	TWA	STEL
Orthophosphoric acid	1 mg/m3	3 mg/m3	1 mg/m3	3 mg/m3
1-methoxy-2-propanol	100 ppm	150 ppm	100 ppm	150 ppm

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9. Physical & Chemical Properties

Physical state liquid	Odor and appearance amber colored liquid, fruit odor	
Odor threshold (ppm) n. av.	Vapor pressure (mm Hg) 13	Vapor density (Air=1) n. av.
Evaporation rate (butyl acetate = 1) n. av.	Boiling point n. av.	Freezing point n. av.
pH 2.4	Specific gravity 1.1	Coefficient water/oil distribution n. av.
Solubility in water 100 %	Viscosity n. av.	% Volatiles (by weight) n. av.

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 alkaline materials
Reactivity, and under what conditions? stable under normal conditions	
Hazardous decomposition products carbon monoxide and/or carbon dioxide, oxides of phosphorus as thermal decomposition products	

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 this product			
Orthophosphoric acid (85 %) LD ₅₀ oral, rat 3500 mg/kg LD ₅₀ dermal, rat 1260 mg/kg 1-methoxy-2-propanol LD ₅₀ (rat, oral) 5660 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

Octylphenoxypolyethoxyethanol (CAS # 9036-19-5)	Aquatic effects 96 hr. Fathead Minnow LC ₅₀ 8.9 mg/L
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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 handle the product.

14. Transport Information

Shipping name
Hazard class
UN Identification #

US Domestic Shipments up to 5 Liters (1.3 gallons) per bottle
Consumer Commodity ORM-D for ground shipments
Consumer Commodity ORM-D-AIR for air shipments

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 deodorizer

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

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Phone No: 1-412-264-8340

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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