PRORESTORE PRODUCTS

Material Safety Data Sheet

HMIS	
Health Hazard	1
Fire Hazard	2
Reactivity	0
Personal Protection	c

NFPA

1. Chemical Product & Company Data

Product Name: **OdorX Double O™**	Revision Date: December 3, 2012
Manufactured for: ProRestore Products 1016 Greentree Rd., Suite 115 Pittsburgh, PA 15220 Telephone: 1-412-264-8340 **CHEMICAL EMERGENCY:** **INFOTRAC** (US) **1-800-535-5053** (INT'L) **1-800-323-3500**	Supplier:

2. Ingredients

Name	CAS #	UN #	% by volume
D-Limonene	5989-27-5		5-10
Dipropylene Glycol	25265-71-8		40-70
1-chloro-2-methyl benzene (monochlorotoluene, mixed isomers)	25168-05-2		5-10
Octylphenoxypolyethoxyethanol (nonionic surfactant)	9036-19-5		10-30
Fragrance - Essential Oil	n. av.		15-40

3. Hazards Identifcation

Emergency Overview

Combustible liquid. Skin and eye irritant

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

Ingestion - May cause abdominal discomfort, nausea, vomiting and diarrhea. Drowsiness or unconsciousness may occur.

Inhalation - Low concentration of the vapor may cause irritation of the respiratory tract with possible chest pain and coughing. High concentrations may cause headache and drowsiness.

Eye Contact - Causes severe eye irritation and possible corneal injury.

Skin Contact - Prolonged contact may cause discomfort, redness, drying and defatting of the skin.

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. Wash skin with soap and water. Obtain medical attention if irritation persists.

5. Fire Fighting Measures

Flammability Yes [X] No [ ]	If yes, under which conditions?	Combustible liquid. Potential fire hazard when exposed to excessive heat, flame or other sources of ignition.
Flashpoint: 127 °F (52.7 °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	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

Eliminate all sources of ignition.
Wear personal protective equipment.
Do not allow spill to reach watercourse or sewers.
Contain spill with absorbent mats or booms or inert materials such as sand. Material should be readily available in the workplace.
Collect and store waste materials in suitable containers for disposal i.e. metal drums.

7. Handling & Storage

Extinguish all sources of ignition in the work area. If the product is stored in metal containers the container must be grounded and bonded prior to dispensing the liquid. To prevent vapor escaping to the atmosphere keep all containers closed or covered. The product should be stored in a separate room equipped for flammable liquid storage or small volumes may be stored in a flammable liquid cabinet. Check local Health and Safety Authority for the volume limits in these situations. Eye wash stations are required in the workplace. If eye irritation is encountered the use of a full face piece respirator is recommended. Mechanical ventilation is recommended in enclosed workspaces. Area should be evacuated of all non essential personnel prior to application of product.

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*		

9. Physical and Chemical Properties

Physical state Liquid	Odor and appearance Clear orange yellow liquid with a citrus like odor	
Odor threshold (ppm) n. av.	Vapor pressure (mm Hg) ~ 5	Vapor density (Air=1) n. av.
Evaporation (butyl acetate = 1) n.av.	Boiling point 233.6 °F (122 °C)	Freezing point n. av.
pH 8.2	Specific gravity 0.96	Coefficient water/oil distribution n. av.
Solubility in water 100%	Viscosity 3.48 cs @ 100.4 °F (38 °C)	% Volatiles (by weight) n. av.

10. Stability and Reactivity

Chemical Stability Yes [X] No [ ]	If no, under which conditions?
Incompatibility with other substances Yes [X] No [ ]	If yes, under which conditions? Avoid contact with strong oxidizing and reducing agents.
Reactivity, and under what conditions?	Stable under normal conditions.
Hazardous decomposition products?	Hazardous combustion products, carbon dioxide, carbon monoxide, hydrogen chloride gas

11. Toxicological Information

Route of Entry

Skin Contact [X] Skin Absorption [ ] Eye Contact [X] Inhalation [X] Ingestion [X]

Orthochlorotoluene	LD50 oral, rat 2350 mg/kg LD50 dermal, rabbit > 7940 mg/kg LC rat 4 hr. > 3471 ppm
Parachlorotoluene	LD50 oral, rat 2100 mg/kg LD50 dermal, rabbit > 2000 mg/kg
D-Limonene	LD50 oral, rat > 5g/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

Octylphenoxypolyethoxyethanol (CAS # 9036-19-5) Aquatic effects 96 hr. Fathead Minnow LC50 8.9mg./L

13. Disposal Considerations

Dispose of in compliance with all Federal, state and local laws and regulations.

14. Transport Information

US ground (truck or rail shipments)
This product is not regulated by the US DOT for truck or rail shipments in containers of 119 gallons or less.
Does not apply to transportation via vessel or air.
Double O contains an ingredient considered to be a marine pollutant.

Shipping Name: COMBUSTIBLE LIQUID

Hazard Class:

UN Identification #:

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 **combustible liquid and as a skin and eye irritant** - 29 CFR 1910.1200 and Controlled Products Regulations (Can.)

WHMIS classification **B3 D2B**

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.

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California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986):
WARNING: This product contains a chemical(s) known to the State of California to cause cancer.

16. Other Information

This product is a commercial deodorizing chemical.

Abbreviations:

n. av. = not available	n. ap. = not applicable	ppm = parts per million
mm Hg = millimeters of Mercury	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	CS = centistokes