

SAFETY DATA SHEET

Date Prepared : 1/29/2015

SDS No : CPC

CitrOx

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: CitrOx

GENERAL USE: Cleaning and deodorizing ceramic tile walls, floors, and bathroom fixtures.

PRODUCT DESCRIPTION: Peroxide Powered Multi-Purpose Cleaner

PRODUCT CODE: CPC

CHEMICAL FAMILY: Solvent/detergent blend

MANUFACTURER

MISCO Products Corporation

1048 Stinson Drive

Reading, PA 19605

Emergency Phone: 610-926-4106

Customer Service: 800-548-4568

Transportation: 800-548-4568

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEM-TEL (Medical and Transportation): 800-255-3924

POISON CONTROL CENTER (Medical): 800-222-1222

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health:

Skin Irritation, Category 2

Eye Corrosion, Category 1

Physical:

Flammable Liquids, Category 3

GHS LABEL



Corrosion



Flame

SIGNAL WORD: DANGER

HAZARD STATEMENTS

H318: Causes serious eye damage.

H315: Causes skin irritation.

H303: May be harmful if swallowed.

H226: Flammable liquid and vapour.

PRECAUTIONARY STATEMENT(S)

Prevention:

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P264: Wash thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P234: Keep only in original container.

P210: Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

P233: Keep container tightly closed.

Response:

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER or doctor/physician.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P332+P313: If skin irritation occurs: Get medical advice/attention.
P362: Take off contaminated clothing and wash before reuse.
P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P370+P378: In case of fire: Use dry chemical, alcohol-resistant foam for extinction.

Storage:

P405: Store locked up.
P403+P235: Store in a well-ventilated place. Keep cool.

Disposal:

P501: Dispose of contents/container in accordance with local, state and federal regulations.

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Clear Liquid

IMMEDIATE CONCERNS: Severe eye irritant and may cause permanent eye damage. Skin irritant.

POTENTIAL HEALTH EFFECTS

EYES: Extremely irritating to the eyes and may cause severe damage including blindness.

SKIN: Contact may cause moderate to severe irritation.

SKIN ABSORPTION: None Expected.

INGESTION: Harmful if swallowed.

INHALATION: Mist is irritating to nose, throat and lungs.

REPRODUCTIVE TOXICITY

TERATOGENIC EFFECTS: None known.

CARCINOGENICITY: Not Established

MUTAGENICITY: None known.

ROUTES OF ENTRY: Eye, skin, ingestion.

WARNING CAUTION LABELS: Irritant

PHYSICAL HAZARDS: Combustible material.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
d-Limonene	10 - 15	5989-27-5
Hydrogen Peroxide	0 - 5	7722-84-1
Propylene Glycol N-Propyl Ether	5 - 10	1569-01-3
Isopropylamine Dodecylbenzenesulfonate	5 - 10	26264-05-1
Sodium Octanesulfonate	0 - 5	5324-84-5
Nonylphenol Ethoxylate	5 - 10	9016-45-9
Water	55 - 60	7732-18-5

4. FIRST AID MEASURES

EYES: Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Seek medical attention immediately.

SKIN: Remove contaminated clothing. Immediately flush with water followed by washing with mild soap. Seek medical attention.

INGESTION: Get immediate medical attention. Do not induce vomiting unless instructed to do so by poison center or physician.

INHALATION: Remove victim to fresh air and monitor. Seek medical advise if irritation persists.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Severe burning sensation, damage marked by burns.

SKIN: Burning sensation, redness.

INGESTION: Irritation of mouth, throat, along with stomach upset, vomiting.

INHALATION: Irritation of nose, throat and lungs with coughing, sneezing, possible difficulty breathing.

ACUTE TOXICITY: Corrosive to eyes. Causes moderate to severe skin irritation. Harmful if swallowed.

NOTES TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: II (100-140F)

GENERAL HAZARD: Combustible Liquid

EXTINGUISHING MEDIA: Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.

HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide from combustion

EXPLOSION HAZARDS: Fire exposed containers may burst due to increased pressure from heat.

FIRE FIGHTING PROCEDURES: Keep fire exposed containers cool with water stream or mist.

FIRE FIGHTING EQUIPMENT: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with full face-piece operated in positive pressure mode.

HAZARDOUS DECOMPOSITION PRODUCTS: Not Established

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Shut off any ignition sources. Avoid walking in product. Wipe up or otherwise flush small spills (less than 1 gallon) to sanitary sewer.

LARGE SPILL: Shut off all ignition sources. Ventilate area. Avoid walking in material. Prevent product from entering into stream, soil, storm sewer or other bodies of water.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Avoid discharges into open waterways.

LAND SPILL: Avoid discharge to soil.

AIR SPILL: NA = Not Applicable

GENERAL PROCEDURES: Isolate spill or leak area immediately. Keep unauthorized personnel away. Do not touch or walk through spilled material. Prevent entry into waterways, sewers, or confined areas. Absorb with dry earth, sand or other non-combustible material and transfer to containers.

SPECIAL PROTECTIVE EQUIPMENT: Eye protection, rubber gloves, rubber boots to protect feet.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Store away from excessive heat, spark or open flame. Store at temperatures below 140F. Keep container closed until used. Do not contaminate water, food, or feed by storage or disposal.

HANDLING: Avoid contact with skin and eyes. Wash hands before eating, drinking, smoking or using toilet facilities.

STORAGE: Store in closed container in an area inaccessible to children.

STORAGE TEMPERATURE: Store at ambient temperatures.

STORAGE PRESSURE: Store at ambient atmospheric pressure.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
Chemical Name		ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
d-Limonene	TWA	[1]	[1]	[1]	[1]	30	
Hydrogen Peroxide	TWA	1	1.4	1	1.4	NL	NL
	STEL					NL	NL
Footnotes: 1. Not Established							

ENGINEERING CONTROLS: Use in well ventilated area.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Chemical splash goggles and full face-shield.

SKIN: Rubber or other chemical resistant gloves.

RESPIRATORY: A respirator is not needed under normal and intended conditions of product use.

PROTECTIVE CLOTHING: Chemical resistant outerwear (tyvek) if contact with spray or mist is anticipated.

WORK HYGIENIC PRACTICES: Wash with soap and water after handling. Do not eat, drink or smoke while using product.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Citrus

ODOR THRESHOLD: Not Established

COLOR: Colorless

pH: 3.0 to 5.0

PERCENT VOLATILE: >80

FLASH POINT AND METHOD: 53.3°C (128°F)

FLAMMABLE LIMITS: 1.0 to 6.0

AUTOIGNITION TEMPERATURE: Not Established

VAPOR PRESSURE: ~ 20 mm Hg at (68°F)

VAPOR DENSITY: > 1 Air = 1

BOILING POINT: 212° F; 100° C

FREEZING POINT: 32° F; 0° C

THERMAL DECOMPOSITION: Not Available

SOLUBILITY IN WATER: Complete

EVAPORATION RATE: (Water =1) 1.0

DENSITY: 8.47

SPECIFIC GRAVITY: ~ 1.015 grams/ml.

VISCOSITY: Water thin.

(VOC): 11.580 % by weight

10. STABILITY AND REACTIVITY

REACTIVITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

INCOMPATIBLE MATERIALS: Strong acids, oxidizers.

11. TOXICOLOGICAL INFORMATION

ACUTE

Chemical Name	ORAL LD ₅₀ (rat)	DERMAL LD ₅₀ (rabbit)
d-Limonene	4400 mg/kg (rat)	5000 mg/kg (rabbit)
Hydrogen Peroxide	> 2000 mg/kg (rat)	> 2000 mg/kg (rabbit)
Propylene Glycol N-Propyl Ether	2000 to 4350 mg/kg (rat)	3800 to 4350 mg/kg (rabbit)
Nonylphenol Ethoxylate	16000 mg/kg (rat)	4490 mg/kg (rabbit)

EYES: Not Established

DERMAL LD₅₀: Not Established

ORAL LD₅₀: Not Established

INHALATION LC₅₀: Not Established

EYE EFFECTS: Corrosive to eyes. Permanent damage may occur.

SKIN EFFECTS: Moderate to severe skin irritant.

CARCINOGENICITY

Chemical Name	NTP Status	IARC Status	OSHA Status
d-Limonene	No listed substance	Group 3 - Not classifiable as to its carcinogenicity to Humans	No listed substance
Hydrogen Peroxide		Group 3 - Not classifiable as to its carcinogenicity to Humans	

IARC:

The International Agency for Research on Cancer (IARC) has concluded that there is inadequate evidence for carcinogenicity of d-Limonene in humans, but limited evidence in experimental animals (Group 3 - not classifiable as to its carcinogenicity to humans).

IRRITATION: Irritant

GENETIC EFFECTS: No known significant effects or critical hazards.

REPRODUCTIVE EFFECTS: No known significant effects or critical hazards.

TARGET ORGANS: No known significant effects or critical hazards.

MUTAGENICITY: No known significant effects or critical hazards.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Not Established

ECOTOXICOLOGICAL INFORMATION: This material is harmful to aquatic life.

AQUATIC TOXICITY (ACUTE): Not Established

CHEMICAL FATE INFORMATION: This product is biodegradable.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Any method in accordance with local, state and federal laws. Best method is to recycle or reuse for intended purpose. If discarded, this material and its containers should be treated as hazardous waste based on the characteristics of ignitibility as defined under federal RCRA regulations (40 CFR 261). Consult local authorities for disposal into public sewer.

FOR LARGE SPILLS: Consult with local and state authorities for large volume disposal.

PRODUCT DISPOSAL: Small quantities (less than 1 gallon) of used material may be flushed to sanitary sewer with copious amounts of water. Larger quantities must be disposed of by a licensed disposal company.

EMPTY CONTAINER: Rinse container with clear water. Offer container for recycling, or dispose of in trash.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Cleaning Compound, not regulated (for US domestic shipment only)

PLACARDS: None

LABEL: NA = Not Applicable

AIR (ICAO/IATA)

SHIPPING NAME: Contact manufacturer for more information.

VESSEL (IMO/IMDG)

SHIPPING NAME: Contact manufacturer for more information.

15. REGULATORY INFORMATION

UNITED STATES

DOT LABEL SYMBOL AND HAZARD CLASSIFICATION

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Health - Acute

FIRE: No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** No

313 REPORTABLE INGREDIENTS: No listed substance

302/304 EMERGENCY PLANNING

EMERGENCY PLAN: No listed substance

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: Not Established

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: All ingredients are listed on the TSCA Chemical Inventory.

STATES WITH SPECIAL REQUIREMENTS

Chemical Name	Requirements
d-Limonene	Pennsylvania Right to Know Substance New Jersey Right To Know Substance
Hydrogen Peroxide	Massachusetts Right to Know Substance New Jersey Right To Know Substance New York Right to Know Substance Pennsylvania Right to Know Substance
Nonylphenol Ethoxylate	Massachusetts Right to Know Substance New Jersey Right To Know Substance Pennsylvania Right to Know Substance

CALIFORNIA PROPOSITION 65: No listed substance

CARCINOGEN:

The International Agency for Research on Cancer (IARC) has concluded that there is inadequate evidence for carcinogenicity of d-Limonene in humans, but limited evidence in experimental animals (Group 3 - not classifiable as to its carcinogenicity to humans).

16. OTHER INFORMATION

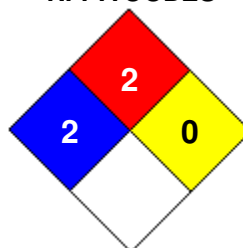
PREPARED BY: Regulatory Affairs Department

Date Prepared: 1/29/2015

HMIS RATING

HEALTH		2
FLAMMABILITY		2
PHYSICAL HAZARD		0
PERSONAL PROTECTION		D

NFPA CODES



MANUFACTURER DISCLAIMER: This company cannot anticipate all conditions of handling and use of this product. Therefore, this company accepts no responsibility for results obtained by the application of this information, or the safety and suitability of the product either alone or in combination with other products. It is the responsibility of the employer and/or user to provide a safe workplace, using health and safety information contained herein as a guide. This company will accept no liability for damages or losses incurred from the improper handling and use of this product.

CITROX

Peroxide Powered Multi-Purpose Cleaner



Scan for product's
Material Safety Data Sheet

FEATURES

- Hydrogen peroxide based
- Versatile
- D-Limonene based

BENEFITS

- Provides color safe bleaching and deodorizing
- Provides penetration to oil and grease
- Multiple dilutions customized for each cleaning need

AREAS OF USE:

- Factories
- Kitchens
- Restrooms
- Schools
- Garages
- Tile
- Floors
- Walls
- Tables
- Porcelain

DIRECTIONS

Dilute product according to guidelines below:

FOR LIGHT DUTY & FLOOR CLEANING - Use 1 - 2 oz. per each gallon of water.

FOR RESTROOM & TILE CLEANING - Use 8 - 10 oz. per each gallon of water.

FOR HEAVY DEGREASING - Use 8 - 12 oz. per each gallon of water.

Apply product by spray, mop, sponge, or cloth to surfaces to be cleaned. If necessary, agitate to help remove excessive soils. Rinse thoroughly with clean water as needed.

These directions are flexible rather than specific. In many cases a more dilute solution can be used, while for extreme conditions a less dilute solution may be used.

WARNING

EYE AND SKIN IRRITANT. Avoid contact with skin, eyes, and clothing. Wear protective rubber gloves when handling. Wear protective eyewear (chemical splash goggles) where potential for mist contact may occur. Use in well ventilated areas. Avoid breathing of vapors or mists. Do not take internally. Harmful if swallowed. Keep out of the reach of children. For professional use only.

FIRST AID

EYE CONTACT: Flush with water while holding eyelids open for at least 15 minutes. Call a physician immediately.

SKIN CONTACT: Remove contaminated clothing. Wash thoroughly with water. If irritation persists, call a physician immediately.

INGESTION: Do not induce vomiting. Immediately drink large quantities of water. Contact a physician.

INHALATION: Remove to fresh air. Seek medical attention if symptoms persist.

CONTAINS

Hydrogen Peroxide (7722-84-1), Nonionic Surfactant (9016-45-9), d-limonene (5989-27-5), Amphoteric Surfactant (26264-05-1), Amphoteric Surfactant (5324-84-5), Propylene Glycol N-propyl Ether (1569-01-3), Water (7732-18-5)

SPECIFICATIONS:

Color:
Colorless

Odor:
Citrus

Base:
Hydrogen peroxide & natural citrus solvents

pH (Conc.):
3.0 - 5.0

Recommended Dilution:
1:10 - 1:128

D-Limonene Content:
5%

Foam:
Moderate

Phosphate Content:
None

Rinsability:
Excellent

Flash Point:
128 F (TCC)

Biodegradability:
Complete

Storage/Stability:
6 months

Weight Per Gallon:
8.48lbs./gal.

Freeze/Thaw Stability:
Keep from freezing



1048 Stinson Drive, Reading PA 19605
Phone: 1-800-548-4568

www.miscoproducts.com

HMSP [®]	HMSP [®]	HMSP [®]	HMSP [®]	HMSP [®]	HMSP [®]
HEALTH				1	
FLAMMABILITY				2	
PHYSICAL HAZARD				0	
PERSONAL PROTECTION				B	
HMSP [®]	HMSP [®]	HMSP [®]	HMSP [®]	HMSP [®]	HMSP [®]



CITROX

Peroxide Powered Multi-Purpose Cleaner

Peróxido De Alimentación Limpiador Multiusos



Availability:

Packaging	Item #
12-1 Qt.:	CPC-12MN
4-1 F Gal.:	CPC-14MN
2-2.5 Gal.:	CPC-25MN
Pail/ 5 Gal.:	CPC-05MN
Drum/ 55 Gal.:	CPC-55MN
Tote/ 275 Gal.:	CPC-BKMN

Tiles
Azuljos

Floors
Pisos

Walls
Paredes

Tables
Tablas

Porcelain
Porcelana

DESCRIPTION

A highly concentrated, hydrogen peroxide fortified multi-purpose cleaner, degreaser and deodorizer consisting of a blend of citrus solvent, biodegradable detergents, and hydrogen peroxide that provide heavy-duty cleaning power without use of chlorine bleach, phosphates or butyl solvents. Citrus solvent penetrates and dissolves the oils, biodegradable detergents emulsify and suspend soil, and hydrogen peroxide oxidizes soil and stains, destroys odors and provides color safe bleaching action. It is ideal for cleaning floors, tile & grout, bathroom & shower area as well as odor destruction.



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