

1. Identification

Product identifier	PeridoxRTU (US)	
Other means of identification		
SDS number	NONH32083209	
Product registration number	EPA Registration Number: 8383-13	
Synonyms	CR85335, CR85335IR, CR85336, CR85336IR, HC85335, HC85335IR, HC85336, HC85336IR	
Recommended use	Ready to use. Disinfectant.	
Recommended restrictions	DO not dilute. For professional use only.	
Manufacturer/Importer/Supplier/Distributor information		
Company Name	Contec, Inc.	
Address	525 Locust Grove Spartanburg, SC 29303 USA	
Telephone	1-864-503-8333	
Email	SDS@contecinc.com	
Emergency phone number	Call CHEMTREC day or night USA/Canada: 1.800.424.9300 Mexico: 1.800.681.9531 Outside USA/Canada: +1.703.527.3887	

2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 3
	Hazardous to the aquatic environment, long-term hazard	Category 3
OSHA defined hazards	Not classified.	

Label elements



Signal word	Warning
Hazard statement	Causes skin irritation. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.
Precautionary statement	
Prevention	Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves and eye/face protection. Do not breathe vapor/spray. Keep only in original packaging.
Response	If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Take off contaminated clothing and wash it before reuse.
Storage	Store in a corrosive resistant container with a resistant inner liner.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC) None known.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Acetic acid	64-19-7	< 10
Hydrogen peroxide	7722-84-1	4 - 4.8
Peracetic acid	79-21-0	0.17 - 0.29

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. The specific chemical identity and/or exact percentage of component(s) have been withheld as a trade secret. Components not listed are either non-hazardous or are below reportable limits.

4. First-aid measures

Inhalation

Remove to fresh air and keep at rest in a position comfortable for breathing. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Call a physician if symptoms develop or persist. Move affected person into fresh air and keep warm. Keep victim at rest in a position comfortable for breathing. Maintain an open airway. Get medical attention.

Skin contact

Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse. Important to remove the substance from the skin immediately. Continue to rinse for at least 15 minutes and seek medical attention.

Eye contact

Remove any contact lenses and open eyelids wide apart. Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists. Do not rub eyes. Rinse immediately with plenty of water, also under the eyelids. Continue to rinse for at least 15 minutes and seek medical attention.

Ingestion

Rinse mouth thoroughly with water. If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without advice from poison control center. Never give anything by mouth to an unconscious person. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Keep affected person under observation. Get medical attention if symptoms are severe or persist.

Most important symptoms/effects, acute and delayed

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Causes serious eye irritation. Skin irritation. May cause redness and pain. Ingestion may cause irritation and malaise. These symptoms are reversible. Causes respiratory tract burns. Causes digestive tract burns.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media

Water fog. Foam. Carbon dioxide (CO₂).

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed. Carbon oxides (CO_x). Acetic acid. Thermal decomposition or combustion may produce: oxygen. In a fire, hydrogen peroxide decomposes to molecular oxygen, which can accelerate the burning of flammable materials or cause spontaneous combustion.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

Evacuate area. In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well after the fire is out. Containers can build up pressure if exposed to heat (fire). Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

Specific methods

Do not enter confined fire space without full protective gear. Fight fire from a protected location.

General fire hazards

Due to high temperatures caused by fire this product may decompose releasing oxygen. Solution contains a strong oxidizer. This product may become an oxidizing liquid if concentrated by evaporation.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Should not be released into the environment. Prevent spills or remaining (or excess) product from entering drains. Large spills may be neutralized with dilute alkaline solutions of soda ash, or lime. Small quantities can be dissolved/diluted in water and flushed to drain.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. Retain and dispose of contaminated wash water. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Ensure adequate ventilation. Avoid inhalation of vapors and spray mists. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices. Avoid contamination.

Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Protect from freezing. Keep upright.

Store at temperatures below: 30°C.

Shelf life before opening (in months): 24.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Acetic acid (CAS 64-19-7)	PEL	25 mg/m ³ 10 ppm
Hydrogen peroxide (CAS 7722-84-1)	PEL	1.4 mg/m ³ 1 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Acetic acid (CAS 64-19-7)	STEL	15 ppm	
	TWA	10 ppm	
Hydrogen peroxide (CAS 7722-84-1)	TWA	1 ppm	
Peracetic acid (CAS 79-21-0)	STEL	0.4 ppm	Inhalable fraction and vapor.

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Acetic acid (CAS 64-19-7)	STEL	37 mg/m ³ 15 ppm
	TWA	25 mg/m ³ 10 ppm
Hydrogen peroxide (CAS 7722-84-1)	TWA	1.4 mg/m ³

Components	Type	Value
		1 ppm
Biological limit values	No biological exposure limits noted for the ingredient(s).	
Appropriate engineering controls	Provide eyewash station and safety shower. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.	
Individual protection measures, such as personal protective equipment		
Eye/face protection	Wear safety glasses with side shields (or goggles).	
Skin protection		
Hand protection	Depending on the task: Wear appropriate chemical resistant gloves. Take note of the information given by the manufacturer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Recommended materials: Nitrile rubber. Rubber (natural, latex). Neoprene. Polyvinyl chloride - PVC Butyl rubber. Suitable gloves can be recommended by the glove supplier.	
Skin protection		
Other	Wear appropriate chemical resistant clothing.	
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Check with respiratory protective equipment suppliers. Selection and use of respiratory protective equipment should be in accordance with OSHA General Industry Standard 29 CFR 1910.134; or in Canada with CSA Standard Z94.4.	
Thermal hazards	None required during normal conditions.	
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.	

9. Physical and chemical properties

Appearance

Physical state	Liquid.
Form	Liquid.
Color	White to gray.

Odor Acetic acid. Vinegar-like.

Odor threshold Property has not been measured.

pH 1.9 - 2.2

Melting point/freezing point Property has not been measured.

Initial boiling point and boiling range Property has not been measured.

Flash point Property has not been measured.

Evaporation rate Property has not been measured.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Property has not been measured.

Explosive limit - upper (%) Property has not been measured.

Vapor pressure Property has not been measured.

Vapor density Property has not been measured.

Relative density Property has not been measured.

Solubility(ies)

Solubility (water) Completely soluble in water.

Partition coefficient (n-octanol/water) Not applicable, product is a mixture.

Auto-ignition temperature Property has not been measured.

Decomposition temperature Property has not been measured.

Viscosity	Property has not been measured.
Other information	
Density	8.53 lb/gal 1.02 g/ml
Dynamic viscosity	1 cP
Explosive properties	Not explosive.
Kinematic viscosity	Property has not been measured.
Oxidizing properties	Oxidizing.
Particle size	Not applicable (the material is a liquid).
Percent volatile	> 99 %

10. Stability and reactivity

Reactivity	Reacts violently with strong alkaline substances. This product may react with reducing agents.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Keep away from heat, sparks, and flame. Contact with incompatible materials. Do not mix with other chemicals.
Incompatible materials	Strong acids. Bases. Reducing agents. Some metals. Strong alkaline. Chlorinated compounds.
Hazardous decomposition products	Carbon oxides. Oxygen. Acetic acid.

11. Toxicological information

Information on likely routes of exposure

Inhalation	May cause irritation to the respiratory system. Prolonged inhalation may be harmful. Causes respiratory tract burns.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye irritation.
Ingestion	Ingestion may cause irritation and malaise.

Symptoms related to the physical, chemical and toxicological characteristics Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Causes serious eye irritation. Skin irritation. May cause redness and pain. Ingestion may cause irritation and malaise. These symptoms are reversible. Causes digestive tract burns. Causes respiratory tract burns.

Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.

Components	Species	Test Results
Acetic acid (CAS 64-19-7)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	1060 mg/kg
Inhalation		
<i>Vapor</i>		
LC50	Rat	11.4 mg/l, 4 Hours
Skin corrosion/irritation	Causes skin irritation. Causes severe skin burns.	
Serious eye damage/eye irritation	Causes serious eye irritation.	
Respiratory or skin sensitization		
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to cause skin sensitization.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	Not classifiable as to carcinogenicity to humans.	

IARC Monographs. Overall Evaluation of Carcinogenicity

Hydrogen peroxide (CAS 7722-84-1)

3 Not classifiable as to carcinogenicity to humans.

NTP Report on Carcinogens

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Reproductive toxicity	Not classified.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

Components	Species	Test Results	
Acetic acid (CAS 64-19-7)			
Aquatic			
<i>Acute</i>			
Crustacea	EC50	Water flea (Daphnia magna)	65 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	75 mg/l, 96 hours
Hydrogen peroxide (CAS 7722-84-1)			
Aquatic			
<i>Acute</i>			
Algae	EC50	Chlorella vulgaris	2.5 mg/l, 72 Hours
Crustacea	EC50	Daphnia magna	2.4 mg/l, 48 Hours
Fish	LC50	Pimephales promelas	16.4 mg/l, 96 Hours

Persistence and degradability No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Acetic acid (CAS 64-19-7)	-0.17
Peracetic acid (CAS 79-21-0)	-1.07

Mobility in soil This product is water soluble and may disperse in soil.

Other adverse effects The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not established.**General information** IATA: Not recommended for transport.
IATA classification is not relevant as the material is not transported by air.**15. Regulatory information****US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Acetic acid (CAS 64-19-7) Listed.

Peracetic acid (CAS 79-21-0) Listed.

SARA 304 Emergency release notification

Hydrogen peroxide (Conc.> 52%) (CAS 7722-84-1) 1000 LBS

Peracetic acid; Ethaneperoxoic acid (CAS 79-21-0) 500 LBS

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Toxic Substances Control Act (TSCA) All components of the mixture on the TSCA 8(b) inventory are designated "active".**Superfund Amendments and Reauthorization Act of 1986 (SARA)****SARA 302 Extremely hazardous substance**

Chemical name	CAS number	Reportable quantity (pounds)	Threshold planning quantity (pounds)	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)
Hydrogen peroxide	7722-84-1	1000	1000		
Peracetic acid	79-21-0	500	500		

SARA 311/312 Hazardous chemical Yes**Classified hazard categories** Serious eye damage or eye irritation**SARA 313 (TRI reporting)**
Not regulated.**Other federal regulations****Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Peracetic acid (CAS 79-21-0)

Safe Drinking Water Act (SDWA) Not regulated.**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

Acetic acid (CAS 64-19-7) High priority

US state regulations**US. Massachusetts RTK - Substance List**

Acetic acid (CAS 64-19-7)

Hydrogen peroxide (CAS 7722-84-1)

Peracetic acid (CAS 79-21-0)

US. New Jersey Worker and Community Right-to-Know Act

Acetic acid (CAS 64-19-7)

Hydrogen peroxide (CAS 7722-84-1)

Peracetic acid (CAS 79-21-0)

US. Pennsylvania Worker and Community Right-to-Know Law

Acetic acid (CAS 64-19-7)

Hydrogen peroxide (CAS 7722-84-1)

Peracetic acid (CAS 79-21-0)

US. Rhode Island RTK

Acetic acid (CAS 64-19-7)

Hydrogen peroxide (CAS 7722-84-1)

Peracetic acid (CAS 79-21-0)

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	24-May-2022
Revision date	02-March-2023
Version #	02
Further information	HMIS Rating: B - Safety Glasses, Gloves
HMIS® ratings	Health: 2 Flammability: 0 Physical hazard: 0 Personal protection: B
List of abbreviations	EC50: Effective Concentration, 50%. LC50: Lethal Concentration, 50%. LD50: Lethal Dose, 50%.
Disclaimer	Contec, Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.