

## 1. Identification

<b>Product identifier</b>	<b>PeridoxRTU (Ca)</b>
<b>Other means of identification</b>	
<b>SDS number</b>	NONH32083209
<b>Product code</b>	HC85365, HC85365IR, HC85366, HC85366IR
<b>Recommended use</b>	Ready to use. Disinfectant.
<b>Recommended restrictions</b>	DO not dilute. For professional use only.
<b>Manufacturer/Importer/Supplier/Distributor information</b>	
<b>Company name</b>	Contec, Inc.
<b>Address</b>	525 Locust Grove Spartanburg, SC 29303 USA
<b>Telephone</b>	1-864-503-8333
<b>Email</b>	SDS@contecinc.com
<b>Emergency phone number</b>	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 identification

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

### Label elements



<b>Signal word</b>	Warning
<b>Hazard statement</b>	Causes skin irritation. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.
<b>Precautionary statement</b>	
<b>Prevention</b>	Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves and eye/face protection.
<b>Response</b>	IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
<b>Storage</b>	Store away from incompatible materials.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Supplemental information</b>	None.
<b>Other hazards</b>	None known.

### 3. Composition/information on ingredients

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Acetic acid		64-19-7	< 10
Hydrogen peroxide		7722-84-1	1 - 5
Peracetic acid		79-21-0	0.1 - 1

**Composition comments** All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. The exact concentrations of the above listed chemicals are being withheld as a trade secret. Components not listed are either non-hazardous or are below reportable limits.

### 4. First-aid measures

<b>Inhalation</b>	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.
<b>Skin contact</b>	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
<b>Eye contact</b>	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.
<b>Ingestion</b>	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.
<b>Most important symptoms/effects, acute and delayed</b>	Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Ingestion may cause irritation and malaise. These symptoms are reversible.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
<b>General information</b>	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

<b>Suitable extinguishing media</b>	Water fog. Foam. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed. Carbon oxides (CO <sub>x</sub> ). 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.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire fighting equipment/instructions</b>	In case of fire and/or explosion do not breathe fumes. Evacuate area. 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.
<b>Specific methods</b>	Do not enter confined fire space without full protective gear. Fight fire from a protected location.
<b>General fire hazards</b>	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

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapours or mists. 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.
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**Methods and materials for containment and cleaning up**

This product is miscible in water. Should not be released into the environment. Prevent spills or remaining (or excess) product from entering drains. Large spills may be Neutralised 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 vapours 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. 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 vapour.

**Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)**

Components	Type	Value
Acetic acid (CAS 64-19-7)	STEL	37 mg/m3
		15 ppm
	TWA	25 mg/m3
Hydrogen peroxide (CAS 7722-84-1)	TWA	10 ppm
		1.4 mg/m3
		1 ppm

**Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)**

Components	Type	Value
Acetic acid (CAS 64-19-7)	STEL	15 ppm
	TWA	10 ppm
Hydrogen peroxide (CAS 7722-84-1)	TWA	1 ppm

**Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)**

Components	Type	Value	Form
Acetic acid (CAS 64-19-7)	STEL	15 ppm	
	TWA	10 ppm	

**Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)**

Components	Type	Value	Form
Hydrogen peroxide (CAS 7722-84-1)	TWA	1 ppm	
Peracetic acid (CAS 79-21-0)	STEL	0.4 ppm	Inhalable fraction and vapour.

**Canada. New Brunswick OELs: Threshold Limit Values (TLVs) Based on the 1991 and 1997 ACGIH TLVs and BEIs Publication (New Brunswick Regulation 91-191)**

Components	Type	Value	
Acetic acid (CAS 64-19-7)	STEL	37 mg/m3	
		15 ppm	
	TWA	25 mg/m3	
		10 ppm	
Hydrogen peroxide (CAS 7722-84-1)	TWA	1.4 mg/m3	
		1 ppm	

**Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)**

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 vapour.

**Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety)**

Components	Type	Value	Form
Acetic acid (CAS 64-19-7)	STEL	37 mg/m3	
		15 ppm	
	TWA	25 mg/m3	
		10 ppm	
Hydrogen peroxide (CAS 7722-84-1)	TWA	1 ppm	
Peracetic acid (CAS 79-21-0)	STEL	0.4 ppm	Inhalable fraction and vapour.

**Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)**

Components	Type	Value	
Acetic acid (CAS 64-19-7)	15 minute	15 ppm	
	8 hour	10 ppm	
Hydrogen peroxide (CAS 7722-84-1)	15 minute	2 ppm	
	8 hour	1 ppm	

**Biological limit values**

No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls**

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. Provide eyewash station and safety shower.

**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). Suitable gloves can be recommended by the glove supplier.

<b>Other</b>	Wear appropriate chemical resistant clothing.
<b>Respiratory protection</b>	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.
<b>Thermal hazards</b>	None required during normal conditions.
<b>General hygiene considerations</b>	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

<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>Colour</b>	White to grey.
<b>Odour</b>	Acetic acid. Vinegar-like.
<b>Odour threshold</b>	Property has not been measured.
<b>pH</b>	> 1.9 - < 2.2
<b>Melting point/freezing point</b>	Property has not been measured.
<b>Initial boiling point and boiling range</b>	Property has not been measured.
<b>Flash point</b>	Property has not been measured.
<b>Evaporation rate</b>	Property has not been measured.
<b>Flammability (solid, gas)</b>	Not applicable.

### Upper/lower flammability or explosive limits

<b>Explosive limit - lower (%)</b>	Property has not been measured.
<b>Explosive limit – upper (%)</b>	Property has not been measured.
<b>Vapour pressure</b>	Property has not been measured.
<b>Vapour density</b>	Property has not been measured.
<b>Relative density</b>	Property has not been measured.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Completely soluble in water.
<b>Partition coefficient (n-octanol/water)</b>	Not applicable, product is a mixture.
<b>Auto-ignition temperature</b>	Property has not been measured.
<b>Decomposition temperature</b>	Property has not been measured.
<b>Viscosity</b>	Property has not been measured.

### Other information

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

## 10. Stability and reactivity

<b>Reactivity</b>	Reacts violently with strong alkaline substances. This product may react with reducing agents.
<b>Chemical stability</b>	Material is stable under normal conditions.

<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Keep away from heat, sparks, and flame. Contact with incompatible materials. Do not mix with other chemicals.
<b>Incompatible materials</b>	Bases. Strong acids. Reducing Agents. Some metals. Strong alkaline. Chlorinated compounds.
<b>Hazardous decomposition products</b>	Carbon oxides. Acetic acid. Oxygen.

## 11. Toxicological information

### Information on likely routes of exposure

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

<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Ingestion may cause irritation and malaise. These symptoms are reversible.
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### Information on toxicological effects

<b>Acute toxicity</b>	Not expected to be acutely toxic.
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Components	Species	Test Results
Acetic acid (CAS 64-19-7)		
<b><u>Acute</u></b>		
<b>Dermal</b>		
LD50	Rabbit	1060 mg/kg
<b>Inhalation</b>		
<i>Vapour</i>		
LC50	Rat	11.4 mg/l, 4 Hours

<b>Skin corrosion/irritation</b>	Causes skin irritation.
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<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.
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### Respiratory or skin sensitisation

#### Canada - Alberta OELs: Irritant

Hydrogen peroxide (CAS 7722-84-1)	Irritant
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<b>Respiratory sensitisation</b>	Not a respiratory sensitiser.
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<b>Skin sensitisation</b>	This product is not expected to cause skin sensitisation.
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<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
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<b>Carcinogenicity</b>	Not classifiable as to carcinogenicity to humans.
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#### ACGIH Carcinogens

Hydrogen peroxide (CAS 7722-84-1)	A3 Confirmed animal carcinogen with unknown relevance to humans.
Peracetic acid (CAS 79-21-0)	A4 Not classifiable as a human carcinogen.

#### Canada - Manitoba OELs: carcinogenicity

Hydrogen peroxide (CAS 7722-84-1)	Confirmed animal carcinogen with unknown relevance to humans.
Peracetic acid (CAS 79-21-0)	Not classifiable as a human carcinogen.

#### Canada - Quebec OELs: Carcinogen category

Hydrogen peroxide (CAS 7722-84-1)	Detected carcinogenic effect in animals.
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#### IARC Monographs. Overall Evaluation of Carcinogenicity

Hydrogen peroxide (CAS 7722-84-1)	3 Not classifiable as to carcinogenicity to humans.
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<b>Reproductive toxicity</b>	Not classified.
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<b>Specific target organ toxicity - single exposure</b>	Not classified.
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<b>Specific target organ toxicity - repeated exposure</b>	Not classified.
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<b>Aspiration hazard</b>	Not an aspiration hazard.
<b>Chronic effects</b>	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)			
<b>Aquatic</b>			
<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)			
<b>Aquatic</b>			
<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

<b>Disposal instructions</b>	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.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations.
<b>Hazardous waste code</b>	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Waste from residues / unused products</b>	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 (see: Disposal instructions).
<b>Contaminated packaging</b>	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

### TDG

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

**Canadian regulations** This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

**Controlled Drugs and Substances Act**

Not regulated.

**Export Control List (CEPA 1999, Schedule 3)**

Not listed.

**Greenhouse Gases**

Not listed.

**Precursor Control Regulations**

Not regulated.

**International regulations****Stockholm Convention**

Not applicable.

**Rotterdam Convention**

Not applicable.

**Kyoto Protocol**

Not applicable.

**Montreal Protocol**

Not applicable.

**Basel Convention**

Not applicable.

**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**

<b>Issue date</b>	24-May-2022
<b>Revision date</b>	02-March-2023
<b>Version No.</b>	02
<b>Further information</b>	Further contact: MacIsaac & Associates 440 Gloucester Street, Suite 2111 Ottawa, Ontario, K1R 7T8 Canada +1 (613) 236-2250

<b>Disclaimer</b>	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.
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