

# Rapidyne™

Preparation Date: 31-Jul-2008

Revision Date: 28-May-2021

**Revision Number: 5** 

SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

<u>Product Identifier</u> Product Name	Rapidyne™
<u>Other means of identification</u> Item#: Synonyms	1876 None
<u>Recommended use of the chemical</u> Recommended use Uses advised against	and restrictions on use Sanitizer, Restricted to professional users All other
<u>Details of the supplier of the safety</u> Supplier	<u>data sheet</u> DeLaval Cleaning Solutions 11100 N. Congress Ave. Kansas City, MO 64153 : 816-891-7700, 8am – 5pm M-F

### Emergency Telephone Number

Chemtrec 1-800-424-9300

### 2. HAZARDS IDENTIFICATION

#### **Classification**

### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/Irritation	Category 1 Sub-category B
	Category 1
	Category 1A

### Sulfuric acid and other mineral acids mist statement

The International Agency for Research on Cancer (IARC) has classified "strong inorganic acid mists containing sulfuric or other strong mineral acids (such as Hydrochloric and Nitric acid) as a known human carcinogen, (IARC category 1). This classification applies only to mists containing such mineral acids and not to the specific acids or their solutions, unless otherwise noted.

Corrosive to metals

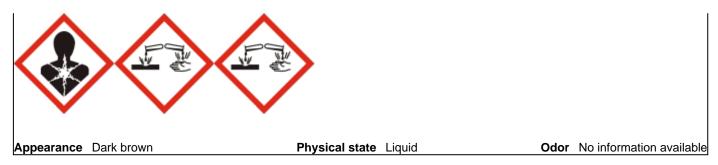
### Label Elements

**Emergency Overview** 

### DANGER

Hazard Statements Causes severe skin burns and eye damage May cause cancer May be corrosive to metals

Category 1



### **Precautionary Statements - Prevention**

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Do not breathe dust/fume/gas/mist/vapors/spray Wash face, hands and any exposed skin thoroughly after handling Keep only in original container

### **Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor/physician Specific treatment (see .? on this label)

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 or doctor/physician.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Absorb spillage to prevent material damage.

### **Precautionary Statements - Storage**

Store locked up Store in corrosive resistant container with a resistant inner liner

#### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical name	CAS No.	Weight-%
Hydriodic acid	10034-85-2	1 - 10
lodine	7553-56-2	3.5
Phosphoric acid	7664-38-2	24.7

If a concentration range is shown, the exact concentration has been withheld as a trade secret.

### 4. FIRST AID MEASURES

#### **Description of first-aid measures**

Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a physician immediately.
Skin contact	Wash off immediately with plenty of water for at least 15 minutes. Call a physician immediately.

Inhalation Move to fresh air. Get medical attention immediately if symptoms occur.

Ingestion	Do not induce vomiting. Drink 1 or 2 glasses of water. Call a physician or Poison Control
	Center immediately. Never give anything by mouth to an unconscious person.

#### Most important symptoms and effects, both acute and delayed

Corrosive. The product causes burns of eyes, skin and mucous membranes.

#### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### Unsuitable Extinguishing Media

No information available.

### Specific hazards arising from the chemical

The product causes burns of eyes, skin and mucous membranes.

Sensitivity to static discharge None.

### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA	Health hazards	3	Flammability	0	Instability 0

### 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothing. Use personal protective equipment.

#### Environmental Precautions

Prevent further leakage or spillage if safe to do so.

### Methods and material for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

### 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Handling	Avoid contact with skin, eyes and clothing.
Conditions for safe storage, includi	ng any incompatibilities
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Store in corrosive resistant container with a resistant inner liner.
Incompatible Materials	bases, organic materials, light metals (e.g. aluminum, copper, brass, zinc galvanized), bleach

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Only constituents with exposure limits are listed. Any constituent not listed has no known exposure limit.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
lodine	TWA: 0.01 ppm	Ceiling: 0.1 ppm	2 ppm
7553-56-2	STEL: 0.1 ppm	Ceiling: 1 mg/m <sup>3</sup>	
Phosphoric acid	TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	1000 mg/m³
7664-38-2	STEL: 3 mg/m <sup>3</sup>	STEL: 3 mg/m <sup>3</sup>	

### Appropriate engineering controls

**Engineering Controls** Ensure adequate ventilation, especially in confined areas.

### Individual protection measures, such as personal protective equipment

Eye/face Protection	Goggles.
Skin and body protection	Wear protective gloves and protective clothing.
<b>Respiratory Protection</b>	In case of inadequate ventilation wear respiratory protection.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state Appearance	Liquid Dark brown	Odor Odor Threshold	No information available No information available
Property pH Melting point/freezing point Boiling Point/Range Flash Point Evaporation rate Flammability (solid, gas) Flammability Limit in Air Upper flammability limit Lower flammability limit	<u>Values</u> 1.5 No information available No information available No information available No information available No information available No information available	<u>Remarks/ Method</u>	
Vapor Pressure Vapor Density Specific Gravity Water Solubility	No information available No information available 1.23 soluble		
Partition coefficient: n-octanol/water Autoignition Temperature Decomposition temperature Viscosity of Product Dynamic viscosity	No information available No information available No information available No information available No information available		
Other information Liquid Density	10.3 lb/gal		

### **10. STABILITY AND REACTIVITY**

### **Reactivity**

May react with other chemicals. Do not mix with other chemicals except as directed on label.

#### **Chemical Stability**

Stable under normal conditions.

### Possibility of hazardous reactions

Gives off hydrogen by reaction with some metals (e.g. aluminum).

### Conditions to Avoid

Extremes of temperature and direct sunlight.

#### **Incompatible Materials**

bases, organic materials, light metals (e.g. aluminum, copper, brass, zinc galvanized), bleach

### Hazardous decomposition products

None known.

### **11. TOXICOLOGICAL INFORMATION**

#### Principal Routes of Exposure

Eye contact, Skin contact, Ingestion

Information on likely routes of exposure		
Eyes	Corrosive to the eyes and may cause severe damage including blindness.	
Skin	Extremely corrosive and destructive to tissue.	
Ingestion	Ingestion causes burns of the upper digestive and respiratory tracts.	

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization	Product is not identified as a sensitizer according to OSHA regulations.
Mutagenic effects	Product is not identified as a mutagen according to OSHA regulations.
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Hydriodic acid	Not Listed	Group 1	Not Listed	Not Listed
10034-85-2				

Legend:

IARC (International Agency for Research on Cancer) Group 1 - Carcinogenic to Humans

Sulfuric acid and other mineral acids mist statement	The International Agency for Research on Cancer (IARC) has classified "strong inorganic acid mists containing sulfuric or other strong mineral acids (such as Hydrochloric and Nitric acid) as a known human carcinogen, (IARC category 1). This classification applies only to mists containing such mineral acids and not to the specific acids or their solutions, unless otherwise noted.
Reproductive Effects STOT - single exposure	Product is not identified as having reproductive effects according to OSHA regulations. Product is not identified as having single target organ toxicity (single exposure) according to OSHA regulations.
STOT - repeated exposure	Product is not identified as having single target organ toxicity (repeated exposure) according to OSHA regulations.
Aspiration Hazard	Product is not identified as an aspiration hazard according to OSHA regulations.

#### Numerical measures of toxicity

If available, toxicity values of individual components are shown below.

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
lodine 7553-56-2	14000 mg/Kg	No data available	137 ppm 4.588 mg/L
Phosphoric acid 7664-38-2	= 1530 mg/kg (Rat)	2730 mg/kg (Rabbit)	850 mg/m³ (Rat)1 h

46% of the mixture consists of ingredient(s) of unknown toxicity

### 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

If available, ecotoxicity values of individual components are shown below.

Chemical name	Algae/aquatic plants	Fish	Microtox	Waterflea
Iodine	EC = 0.13 mg/L	LC50 (96 h)	No data available	LC50 (48 h)
7553-56-2		0.53 mg/L		0.16 mg/L
Phosphoric acid 7664-38-2	No data available	3 - 3.5: 96 h Gambusia affinis mg/L LC50	No data available	4.6: 12 h Daphnia magna mg/L EC50

### Persistence and degradability

No information available.

### **Bioaccumulation/Accumulation**

No information available.

### Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS		
Waste treatment methods		
Waste Disposal Method	Dispose of in accordance with local regulations. Should not be released into the environment.	
Contaminated Packaging	Empty containers should be taken for local recycling, recovery or waste disposal.	

DOT	
UN-No	3264
Proper Shipping Name	Corrosive liquid, acidic, inorganic, n.o.s ( Phosphoric acid )
Hazard Class	8
Packing Group	II

## 15. REGULATORY INFORMATION

#### State Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Hydriodic acid	Х	X	Х
10034-85-2			
Iodine	X	X	Х
7553-56-2			
Phosphoric acid	X	X	X
7664-38-2			

### U.S. EPA Label information

#### EPA Pesticide registration number 4959-36-82882

#### **EPA Statement**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

#### **EPA Pesticide label**

HAZARDS TO HUMANS AND DOMESTIC ANIMALS. Corrosive. Causes irreversible eye damage or skin burns. Harmful if swallowed or absorbed through skin or inhaled. Do not get in eyes, on skin, or on clothing Avoid breathing spray mist. Wear goggles or face shield. Wear protective clothing and rubber gloves. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

Physical and Chemical Hazards: Mix only with water following label directions. Do not mix with chlorinated cleaners and sanitizers. Toxic chlorine gas will be formed. Contact with soft metals may generate hydrogen gas. Do not use or store near heat or open flame.

Environmental Hazards: This product is toxic to fish and aquatic organisms. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

### **16. OTHER INFORMATION**

Preparation Date:	31-Jul-2008
Revision Date:	28-May-2021
Revision Note:	None
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#### <u>Disclaimer</u>

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of SDS