

CRL SAFETY DATA SHEET

Issue Date: 11-17-14 Revision Date: 01-22-20 Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name: C.R. Laurence Water Spot Remover

Other means of identification

CRL Catalog Numbers: C2020 (Gallons), C2030 (Quarts)

Recommended use of the chemical and restrictions on use

Recommended Use Cleaning agent.

Details of the supplier of the safety data sheet

Supplier Address: C.R. Laurence Co., Inc. 2503 E. Vernon Ave Los Angeles, Ca 90058-1826

Telephone: (323) 588-1281 **Emergency Telephone Number**

Emergency Phone Number: CHEMTREC: 1-800-424-9300 (24 hours)

2. HAZARDS IDENTIFICATION

Odor Slightly acidic Appearance Clear liquid Physical State Liquid

Classification

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1

Signal Word Danger

Hazard Statements

Harmful if swallowed Harmful in contact with skin Causes skin irritation Causes serious eye damage



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2. HAZARDS IDENTIFICATION (CONTINUED)

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

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: Wash with plenty of soap and water

Take off contaminated clothing and wash it before reuse

IF SWALLOWED: rinse mouth. Do NOT induce vomiting

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Hydrofluoric acid	7664-39-3	<2
Hydrochloric acid	7647-01-0	<2

^{**}If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.**

4. FIRST AID MEASURES

First Aid Measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek

immediate medical attention/advice.

Skin Contact Immediately flush with large quantities of cool water, while removing contaminated clothing

and shoes, until all acid is removed, paying particular attention to skin under nails. Get medical attention. Follow by immersing affected part in ice-cold saturated solution of

magnesium sulfate (Epsom salt). Wash contaminated clothing before reuse.

Inhalation Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial

respiration. Get medical attention.

Ingestion Do not induce vomiting. Dilute by giving a large amount of water. Immediately follow with

mineral oil or milk of magnesia. Get medical attention.

Most important symptoms and effects

Symptoms Contact will cause irritation and redness to exposed areas. Blindness may occur. May

cause irritation to the mucous membranes and upper respiratory tract.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

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5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

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

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Acid reacts with most metals to release hydrogen gas which can form explosive mixtures with the air.

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal PrecautionsUse personal protective equipment as required.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up

Large spills should be collected by pumping into closed containers for recovery or disposal.

For small spills, neutralize with sodium bicarbonate, soda ash, or dilute caustic soda

solution. Flush area with water.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Wash thoroughly after handling. Use personal protection recommended in Section 8. Do

not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Emptied container retains product residue. Observe all

labeled safeguards until container is cleaned, reconditioned or destroyed.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible Materials Strong oxidizing agents. Acids. Aluminum, tin, zinc, bronze, and brass.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrochloric acid	Ceiling: 2 ppm	(vacated) Ceiling: 5 ppm	IDLH: 50 ppm
7647-01-0		(vacated) Ceiling: 7 mg/m ³	Ceiling: 5 ppm
		Ceiling: 5 ppm	Ceiling: 7 mg/m ³
		Ceiling: 7 mg/m ³	
Hydrofluoric acid	TWA: 0.5 ppm F TWA: 2.5 mg/m ³	TWA: 3 ppm F TWA: 2.5 mg/m ³ F	IDLH: 30 ppm
7664-39-3	F	TWA: 2.5 mg/m ³ dust	Ceiling: 6 ppm 15 min
	S*	(vacated) TWA: 3 ppm F	Ceiling: 5 mg/m ³ 15 min
	Ceiling: 2 ppm F	(vacated) TWA: 2.5 mg/m ³	TWA: 3 ppm
		(vacated) STEL: 6 ppm F	TWA: 2.5 mg/m ³

Appropriate engineering controls

Engineering Controls Apply technical measures to comply with the occupational exposure limits. Eyewash

stations. Showers.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear safety glasses with side shields (or goggles).

Skin and Body Protection Wear rubber or neoprene gloves.

Respiratory Protection Use NIOSH/MSHA approved respiratory protection equipment when airborne exposure

limits are exceeded.

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
 Liquid

 Appearance
 Clear liquid
 Odor
 Slightly acidic

 Color
 Clear
 Odor Threshold
 Not determined

Property Values Remarks • Method

pH Not determined Melting Point/Freezing Point 0 °C / 32 °F Boiling Point/Boiling Range 100 °C / 212 °F Flash Point Not available

Evaporation Rate < 1 (Ether = 1)

Flammability (Solid, Gas)
Upper Flammability Limits
Not available
Lower Flammability Limit
Not available
Vapor Pressure
Vapor Density

n/a-liquid
Not available
Not determined
10-30 mm Hg

Vapor Density 10-30 mm Hg at 21.1°C (70.0°F)

Specific Gravity 1.01 (1=Water)

Water Solubility Completely soluble Solubility in other solvents Not determined **Partition Coefficient** Not determined **Auto-ignition Temperature** Not determined **Decomposition Temperature** Not determined **Kinematic Viscosity** Not determined **Dynamic Viscosity** Not determined **Explosive Properties** Not determined **Oxidizing Properties** Not determined **VOC Content** Not applicable

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10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid

Keep out of reach of children.

Incompatible Materials

Strong oxidizing agents. Acids. Aluminum, tin, zinc, bronze, and brass.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact Causes serious eye damage.

Skin Contact Causes skin irritation. Harmful in contact with skin.

Inhalation Avoid breathing vapors or mists.

Ingestion Harmful if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Hydrochloric acid 7647-01-0	= 700 mg/kg (Rat)	> 5010 mg/kg (Rabbit)	= 3124 ppm (Rat) 1 h
Hydrofluoric acid 7664-39-3	-	-	= 850 mg/m ³ (Rat) 1 h = 1276 ppm (Rat) 1 h

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

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

Carcinogenicity Not classifiable as a human carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Hydrochloric acid		Group 3		
7647-01-0				

Legend

IARC (International Agency for Research on Cancer)

Group 3 IARC components are "not classifiable as human carcinogens"

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11. TOXICOLOGICAL INFORMATION (CONTINUED)

Numerical measures of toxicity

Product Information

Oral LD50 > 500 mg/kg **Dermal LD50** > 1000 mg/kg

Inhalation LC50 > 11.89 mg/L (aerosolized)

12. ECOLOGICAL INFORMATION

Ecotoxicity

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Hydrochloric acid 7647-01-0		282: 96 h Gambusia affinis mg/L LC50 static		
Hydrofluoric acid		660: 48 h Leuciscus idus		270: 48 h Daphnia species
7664-39-3		mg/L LC50		mg/L EC50

Persistence/Degradability

Products are inherently biodegradable.

Bioaccumulation

This material is not expected to significantly bioaccumulate.

Mobility

The material is completely soluble in water

The material is completely colubio in water				
Chemical Name	Partition Coefficient			
Hydrofluoric acid	-1.4			
7664-39-3				

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

US EPA Waste Number

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Hydrofluoric acid	U134			U134
7664-39-3				

14. TRANSPORT INFORMATION

DOT Not regulated

IATA Not regulated

<u>IMDG</u> Not regulated

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15. REGULATORY INFORMATION

International Inventories

Not determined

US Federal Regulations

CERCLA

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Hydrofluoric acid	100 lb	100 lb	RQ 100 lb final RQ
7664-39-3			RQ 45.4 kg final RQ
Hydrochloric acid	5000 lb	5000 lb	RQ 5000 lb final RQ
7647-01-0			RQ 2270 kg final RQ

SARA 313

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Hydrochloric acid - 7647-01-0	7647-01-0	<2	1.0
Hydrofluoric acid - 7664-39-3	7664-39-3	<2	1.0

CWA (Clean Water Act)

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Hydrofluoric acid 7664-39-3 (<2)	100 lb			Х
Hydrochloric acid 7647-01-0 (<2)	5000 lb			Х

US State Regulations

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Hydrochloric acid 7647-01-0	X	X	Х
Hydrofluoric acid 7664-39-3	X	X	Х

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16. OTHER INFORMATION

Flammability NFPA **Health Hazards** Instability **Special Hazards** Not determined Not determined Not determined Not determined HMIS **Health Hazards Flammability Physical Hazards Personal Protection**

Issue Date: 11-17-14 **Revision Date:** 01-22-20

Revision Note: Review and update

Disclaimer

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 Safety Data Sheet

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