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1. IDENTIFICATION

Product identifier: CRL SOLVENT DEGREASER

Other means of identification

SDS number: RE1000000605

Recommended restrictions

Product Use: Cleaner

Restrictions on use: Not known.

CRL Cat. No. CRL60

Manufacturer/Importer/Distributor Information

Manufacturer

Company Name: C.R. Laurence Co., Inc. Address: 2503 E. Vernon Avenue

Los Angeles, CA 90058

Telephone: 1-800-421-6144

Fax:

Emergency telephone number: 1-866-836-8855

2. HAZARD IDENTIFICATION

Hazard Classification

Physical Hazards

Gases under pressure Compressed gas

Health Hazards

Skin Corrosion/Irritation Category 2
Serious Eye Damage/Eye Irritation Category 2A
Germ Cell Mutagenicity Category 2
Carcinogenicity Category 1A
Specific Target Organ Toxicity - Category 3¹

Single Exposure

Target Organs

Narcotic effect.

Environmental Hazards

Acute hazards to the aquatic Category 3

environment

Label Elements

Hazard Symbol:

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2. HAZARD IDENTIFICATION (CONT.)



Signal Word: Danger

Hazard Statement: Contains gas under pressure; may explode if heated.

Causes skin irritation.

Causes serious eye irritation.

Suspected of causing genetic defects.

May cause cancer.

May cause drowsiness or dizziness.

Harmful to aquatic life.

Precautionary Statements

Prevention: Wash thoroughly after handling. Wear protective gloves/protective

clothing/eye protection/face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Avoid

breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Keep container tightly

closed.

Response: IF INHALED: Remove person to fresh air and keep comfortable for

breathing. 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. IF ON SKIN: Wash with plenty of water/... If skin irritation occurs: Get medical advice/attention. Call a POISON CENTER/doctor if you feel unwell. Specific treatment (see on

this label). Take off contaminated clothing.

Storage: Protect from sunlight. Store in a well-ventilated place. Store locked up.

Keep container tightly closed.

Disposal: Dispose of contents/container to an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC):

None.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Ethene, 1,1,2-trichloro-	79-01-6	50 - <100%
Carbon dioxide	124-38-9	1 - <5%
Oxirane, 2-(chloromethyl)-	106-89-8	0.1 - <1%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. FIRST-AID MEASURES

Ingestion: Call a physician or poison control center immediately. Never give liquid to

an unconscious person. Do not induce vomiting without advice from poison

control center. Rinse mouth.

Inhalation: Move to fresh air.

Skin Contact: Immediately flush with plenty of water for at least 15 minutes while

removing contaminated clothing and shoes. Wash contaminated clothing

before reuse. Get medical attention.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do,

remove contact lenses. Get medical attention.

Most important symptoms/effects, acute and delayed

Symptoms: No data available.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: No data available.

5. FIRE-FIGHTING MEASURES

General Fire Hazards: No unusual fire or explosion hazards noted.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media:

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

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5. FIRE-FIGHTING MEASURES (CONT.)

Specific hazards arising from

the chemical:

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

No data available.

Special protective equipment

for fire-fighters:

Self-contained breathing apparatus and full protective clothing must be

worn in case of fire.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Ventilate closed spaces before entering them. See Section 8 of the SDS for Personal Protective Equipment. Keep unauthorized personnel away. Do not touch damaged containers or spilled material unless wearing appropriate

protective clothing.

Methods and material for containment and cleaning

up:

Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Dike far ahead of larger spill for later recovery and

disposal.

Notification Procedures: Dike for later disposal. Prevent entry into waterways, sewer, basements or

confined areas. Stop the flow of material, if this is without risk.

Environmental Precautions: Do not contaminate water sources or sewer. Prevent further leakage or

spillage if safe to do so. Avoid release to the environment.

7. HANDLING AND STORAGE

Precautions for safe handling: Do not taste or swallow. Wash hands thoroughly after handling. Do not

handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as

required. Avoid contact with eyes. Avoid contact with skin.

Conditions for safe storage, including any

incompatibilities:

Store locked up. Aerosol Level 1



8. EXPOSURECONTROLS/PERSONAL PROTECTION

Control Parameters

Occupational Exposure Limits

Chemical Identity	Туре	Exposure Limit Values 10 ppm		Source US. ACGIH Threshold Limit Values (2008)	
Ethene, 1,1,2-trichloro-	TWA				
	STEL	200 ppm	1,080 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)	
	STEL	25 ppm		US. ACGIH Threshold Limit Values (2008)	
	TWA	100 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)	
	MAX. CONC	300 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)	
	TWA	50 ppm	270 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)	
	Ceiling	200 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)	
	REL	25 ppm		US. NIOSH: Pocket Guide to Chemical Hazards (2005)	
	Ceil_Time	2 ppm		US. NIOSH: Pocket Guide to Chemical Hazards (2016)	
Carbon dioxide	TWA	5,000 ppm		US. ACGIH Threshold Limit Values (2008)	
	STEL	30,000 ppm		US. ACGIH Threshold Limit Values (2008)	
	STEL	30,000 ppm	54,000 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)	
	REL	5,000 ppm	9,000 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)	
	PEL	5,000 ppm	9,000 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)	
	TWA	10,000 ppm	18,000 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)	
	STEL	30,000 ppm	54,000 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)	
Oxirane, 2-(chloromethyl)-	TWA	2 ppm	8 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)	
	PEL	5 ppm	19 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)	
	TWA	0.5 ppm		US. ACGIH Threshold Limit Values (2008)	

Biological Limit Values

Chemical Identity	Exposure Limit Values	Source
Ethene, 1,1,2-trichloro- (Trichloroacetic acid: Sampling time: End of shift at end of work week.)	15 mg/l (Urine)	ACGIH BEL (03 2013)
Ethene, 1,1,2-trichloro- (Trichloroethanol, without hydrolysis: Sampling time: End of shift at end of work week.)	0.5 mg/l (Blood)	ACGIH BEL (03 2013)

Appropriate Engineering Controls

No data available.

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8. EXPOSURECONTROLS/PERSONAL PROTECTION (CONT.)

Controls

Individual protection measures, such as personal protective equipment

General information: Provide easy access to water supply and eye wash facilities. Good general

ventilation (typically 10 air changes per hour) 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. If exposure limits have not been established, maintain airborne levels to an acceptable level. If exposure limits have not been established, maintain airborne levels

to an acceptable level.

Eye/face protection: Wear safety glasses with side shields (or goggles).

Skin Protection

Hand Protection: No data available.

Other: Wear suitable protective clothing. Wear chemical-resistant gloves, footwear,

and protective clothing appropriate for the risk of exposure. Contact health

and safety professional or manufacturer for specific information.

Respiratory Protection: In case of inadequate ventilation use suitable respirator. Seek advice from

local supervisor.

Hygiene measures: Observe good industrial hygiene practices. Do not eat, drink or smoke

when using the product. Wash hands after handling. Wash hands before breaks and immediately after handling the product. Avoid contact with eyes.

Wash contaminated clothing before reuse. Avoid contact with skin.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state: Gas

Form: Compressed gas Color: No data available. Odor: No data available. Odor threshold: No data available. pH: No data available. No data available. Melting point/freezing point: Initial boiling point and boiling range: No data available. Flash Point: No data available. No data available. **Evaporation rate:** Flammability (solid, gas): No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

No data available.

No data available.

No data available.

No data available.

Vapor pressure: 4,826.3301 - 6,205.2816 hPa (20 °C)

Vapor density:No data available.Density:No data available.Relative density:No data available.

Solubility(ies)

Solubility in water:

Solubility (other):

No data available.

No data available.

No data available.

No data available.

Auto-ignition temperature:No data available.Decomposition temperature:No data available.Viscosity:No data available.

10. STABILITY AND REACTIVITY

Reactivity: No data available.

Chemical Stability: Material is stable under normal conditions.

Possibility of hazardous

reactions:

No data available.

Conditions to avoid: Avoid heat or contamination.

Incompatible Materials: No data available.

Hazardous Decomposition

Products:

No data available.

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11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product:

Dermal

Product:

Inhalation

Product: Not classified for acute toxicity based on available data.

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: No data available.

Serious Eye Damage/Eye Irritation

Product: No data available.

Respiratory or Skin Sensitization

Product: No data available.

Carcinogenicity

Product: No data available.

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11. TOXICOLOGICAL INFORMATION (CONT.)

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Ethene, 1,1,2- Overall evaluation: 1. Carcinogenic to humans.

trichloro-

Oxirane, 2- Overall evaluation: 2A. Probably carcinogenic to humans.

(chloromethyl)-

US. National Toxicology Program (NTP) Report on Carcinogens:

Ethene, 1,1,2- Known To Be Human Carcinogen.

trichloro-

Oxirane, 2- Reasonably Anticipated to be a Human Carcinogen.

(chloromethyl)-

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: No data available.

In vivo

Product: No data available.

Reproductive toxicity

Product: No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Target Organs

Specific Target Organ Toxicity - Single Exposure: Narcotic effect.

Aspiration Hazard

Product: No data available.

Other effects: Narcotic effect.

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12. ECOLOGICAL INFORMATION

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Persistence and Degradability

Biodegradation

Product: No data available.

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

Ethene, 1,1,2-trichloroCarbon dioxide
Oxirane, 2-(chloromethyl)No data available.
No data available.
No data available.

Other adverse effects: Harmful to aquatic organisms.

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13. DISPOSAL CONSIDERATIONS

Disposal instructions: Discharge, treatment, or disposal may be subject to national, state, or local

laws.

Contaminated Packaging: No data available.

14. TRANSPORT INFORMATION

DOT

UN Number: UN 1950

UN Proper Shipping Name: Aerosols, non-flammable

Transport Hazard Class(es)

Class: 2.2
Label(s): –
Packing Group: II
Marine Pollutant: No

Environmental Hazards: No Marine Pollutant No

Special precautions for user: Not regulated.

IMDG

UN Number: UN 1950

UN Proper Shipping Name: Aerosols, non-flammable

Transport Hazard Class(es)

Class: 2 Label(s): – EmS No.:

Line ito..

Packing Group: –

Environmental Hazards: No Marine Pollutant No

Special precautions for user: Not regulated.

IATA

UN Number: UN 1950

Proper Shipping Name: Aerosols, non-flammable

Transport Hazard Class(es):

Class: 2.2
Label(s): –

Packing Group: –

Environmental Hazards: No Marine Pollutant No

Special precautions for user: Not regulated.

Cargo aircraft only: Allowed.

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15. REGULATORY INFORMATION

US Federal Regulations

Restrictions on use: Not known.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

<u>Chemical Identity</u> <u>Reportable quantity</u>

Ethene, 1,1,2-trichloro- lbs. 100 Oxirane, 2- lbs. 100

(chloromethyl)-

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Sudden Release of Pressure Immediate (Acute) Health Hazards Delayed (Chronic) Health Hazard

Gases under pressure Skin Corrosion/Irritation

Serious Eye Damage/Eye Irritation

Germ Cell Mutagenicity

Carcinogenicity

Specific Target Organ Toxicity - Single Exposure

Simple asphyxiant

SARA 302 Extremely Hazardous Substance

<u>Reportable</u>

<u>Chemical Identity</u> <u>quantity</u> <u>Threshold Planning Quantity</u>

Oxirane, 2- lbs. 100 lbs. 1000

(chloromethyl)-

SARA 304 Emergency Release Notification

Chemical Identity Reportable quantity

Ethene, 1,1,2-trichloro- lbs. 100 Oxirane, 2- lbs. 100

(chloromethyl)-

SARA 311/312 Hazardous Chemical

Chemical Identity Threshold Planning Quantity

Oxirane, 2-(chloromethyl)- lbs Ethene, 1,1,2-trichloro- 10000 lbs Carbon dioxide 10000 lbs

SARA 313 (TRI Reporting)

Reporting Reporting threshold for manufacturing and

<u>Chemical Identity</u> <u>other users</u> <u>processing</u>

Ethene, 1,1,2-trichloro- lbs lbs.
Oxirane, 2- lbs lbs.

(chloromethyl)-

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15. REGULATORY INFORMATION (CONT.)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3) **US State Regulations**

US. California Proposition 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

Carcinogenic. 05 2011 Ethene, 1,1,2-trichloro-

Ethene, 1,1,2-trichloro-Male reproductive toxin. 04 2014 Ethene, 1,1,2-trichloro-Developmental toxin. 04 2014 Oxirane, 2-(chloromethyl)-Carcinogenic. 05 2011

Oxirane, 2-(chloromethyl)-Male reproductive toxin. 03 2008

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

Chemical Identity

Ethene, 1,1,2-trichloro-Carbon dioxide Oxirane, 2-(chloromethyl)-

US. Massachusetts RTK - Substance List

Chemical Identity

Ethene, 1,1,2-trichloro-Oxirane, 2-(chloromethyl)-

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Ethene, 1,1,2-trichloro-Carbon dioxide Oxirane, 2-(chloromethyl)-

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

International regulations

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15. REGULATORY INFORMATION (CONT.)

Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

Inventory Status:

EINECS, ELINCS or NLP: Not in compliance with the inventory.

Canada NDSL Inventory: Not in compliance with the inventory.

Japan Pharmacopoeia Listing: Not in compliance with the inventory.

Australia AICS: On or in compliance with the inventory

Canada DSL Inventory List:

On or in compliance with the inventory

Japan (ENCS) List: On or in compliance with the inventory

China Inv. Existing Chemical Substances:

On or in compliance with the inventory

Korea Existing Chemicals Inv. (KECI): On or in compliance with the inventory

Philippines PICCS: On or in compliance with the inventory

US TSCA Inventory: On or in compliance with the inventory

New Zealand Inventory of Chemicals: On or in compliance with the inventory

Japan ISHL Listing: On or in compliance with the inventory

Mexico INSQ: On or in compliance with the inventory

Ontario Inventory: On or in compliance with the inventory

Taiwan Chemical Substance Inventory:

On or in compliance with the inventory

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16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Issue Date: 09/10/2019

Revision Information: No data available.

Version #: 1.0

Further Information: No data available.

Disclaimer: This information is provided without warranty. The information is believed to

be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.