



MATERIAL SAFETY DATA SHEET

Section 1: Product & Company Identification

Product Name: Citrus Degreaser (bulk)

Product Number (s): 14171, 14172, 14173, 14174

Product Use: General purpose degreaser

Manufacturer / Supplier Contact Information:

In United States:

CRC Industries, Inc.

885 Louis Drive

Warminster, PA 18974

www.crcindustries.com

1-215-674-4300 (General)

(800) 521-3168 (Technical)

(800) 272-4620 (Customer Service)

In Canada:

CRC Canada Co.

2-1246 Lorimar Drive

Mississauga, Ontario L5S 1R2

www.crc-canada.ca

1-905-670-2291

In Mexico:

CRC Industries Mexico

Av. Benito Juárez 4055 G

Colonia Orquídea

San Luís Potosí, SLP CP 78394

www.crc-mexico.com

52-444-824-1666

24-Hr Emergency – CHEMTREC: (800) 424-9300 or (703) 527-3887

Section 2: Hazards Identification

Emergency Overview

DANGER: Combustible. Eye Irritant. Harmful or Fatal if Swallowed.

Appearance & Odor: Clear liquid, mild citrus odor

Potential Health Effects:

ACUTE EFFECTS:

EYE: May cause eye irritation including burning and redness. Severity of irritation will depend upon quality and duration of exposure.

SKIN: Brief exposures are not expected to cause any health effects. Prolonged exposure may cause mild to moderate irritation. Persons with sensitive skin may experience redness or drying of the skin.

INHALATION: Breathing small amounts or vapor during normal handling is not likely to cause harmful effects. Breathing large amounts may cause irritation to the nose and throat as well as headache, drowsiness or other nervous system effects.

INGESTION: Swallowing small amounts during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. Main hazard is aspiration of this material into the lungs during swallowing or vomiting. This can result in lung inflammation and other lung injury.

CHRONIC EFFECTS: Frequent and prolonged exposure to skin can cause dermatitis.

TARGET ORGANS: None known

Medical Conditions Aggravated by Exposure: Eye and skin conditions

See Section 11 for toxicology and carcinogenicity information on product ingredients.

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Section 3: Composition/Information on Ingredients

COMPONENT	CAS NUMBER	% by Wt.
d-Limonene	8028-48-6	65 - 75
Stoddard solvent	8052-41-3	25 - 35

Section 4: First Aid Measures

Eye Contact: Immediately flush with plenty of water for 15 minutes. Call a physician if irritation persists.

Skin Contact: Remove contaminated clothing and wash affected area with soap and water. Call a physician if irritation persists. Wash contaminated clothing prior to re-use.

Inhalation: Remove person to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Call a physician.

Ingestion: Do NOT induce vomiting due to aspiration hazard. Seek medical attention.

Note to Physicians: This material is an aspiration hazard.

Section 5: Fire-Fighting Measures

Flammable Properties: As defined by OSHA, this product is a Class II Combustible Liquid.
Flash Point: 110°F / 43°C (Seta) Upper Explosive Limit: 6.1
Autoignition Temperature: None Lower Explosive Limit: 0.7

Fire and Explosion Data:

Suitable Extinguishing Media: Use extinguishing media appropriate for a Class B fire such as carbon dioxide, foam or dry chemical. Do not use water.

Products of Combustion: Oxides of carbon and irritating fumes.

Explosion Hazards: Containers, when exposed to heat from fire, may build pressure and rupture.

Protection of Fire-Fighters: Firefighters should wear self-contained, NIOSH-approved breathing apparatus for protection against suffocation and possible toxic decomposition products. Proper eye and skin protection should be provided. Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition.

Section 6: Accidental Release Measures

Personal Precautions: Use personal protection recommended in Section 8.

Environmental Precautions: Take precautions to prevent contamination of ground and surface waters. Do not flush into sewers or storm drains.

Methods for Containment & Clean-up: Eliminate sources of ignition. Dike area to contain spill. Ventilate the area with fresh air. If in confined space or limited air circulation area, clean-up workers should wear appropriate respiratory protection. Recover or absorb spilled material using an absorbent designed for chemical spills. Place used absorbents into proper waste containers.

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Section 7: Handling and Storage

Handling Procedures: Do not use near flames, sparks or other sources of ignition. Do not heat product. Use with adequate ventilation in order to prevent vapor build-up and a flammable atmosphere. Avoid contact with skin and eyes. Wash hands after use and before consuming food. For product use instructions, please see the product label.

Storage Procedures: Store in a cool dry area out of direct sunlight. Keep container closed when not in use. Store out of reach of children.

Aerosol Storage Level: NA

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

COMPONENT	OSHA		ACGIH		OTHER		UNIT
	TWA	STEL	TWA	STEL	TWA	SOURCE	
d-Limonene	NE	NE	NE	NE	NE		
Stoddard solvent	100 (v)	NE	100	NE	NE		ppm
N.E. – Not Established (c) – ceiling (s) – skin (v) – vacated							

Controls and Protection:

Engineering Controls: Area should have ventilation to provide fresh air. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at the source, preventing dispersion into the general work area. Use mechanical means if necessary to maintain vapor levels below the exposure guidelines. If working in a confined space, follow applicable OSHA regulations.

Respiratory Protection: None required for normal work where adequate ventilation is provided. If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with organic vapor cartridge. Air monitoring is needed to determine actual employee exposure levels. Use a self-contained breathing apparatus in confined spaces and for emergencies.

Eye/face Protection: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

Skin Protection: Use protective gloves such as nitrile or other synthetic rubbers. Also, use full protective clothing if there is prolonged or repeated contact of liquid with skin.

Section 9: Physical and Chemical Properties

Physical State: liquid
Color: clear, colorless
Odor: mild citrus
Odor Threshold: ND
Specific Gravity: 0.82
Initial Boiling Point: ND
Freezing Point: ND
Vapor Pressure: ND
Vapor Density: > 1 (air = 1)
Evaporation Rate: fast
Solubility: negligible in water

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Coefficient of water/oil distribution: ND

pH: NA

Volatile Organic Compounds: wt %: 100 g/L: 820 lbs./gal: 6.83

Section 10: Stability and Reactivity

Stability: Stable

Conditions to Avoid: Temperature extremes, sources of ignition

Incompatible Materials: Strong oxidizers, strong acids, including acidic clays, peroxides, halogens, vinyl chloride and iodine pentafluoride

Hazardous Decomposition Products: Oxides of carbon

Possibility of Hazardous Reactions: No

Section 11: Toxicological Information

Long-term toxicological studies have not been conducted for this product. The following information is available for components of this product.

Acute Toxicity:

<u>Component</u>	<u>Oral LD50 (rat)</u>	<u>Dermal LD50 (rabbit)</u>	<u>Inhalation LC50 (rat)</u>
d-Limonene	4400 mg/kg	> 5 g/kg	No data
Stoddard solvent	> 5 g/kg	> 3 g/kg	> 1400 ppm/8H

Chronic Toxicity:

<u>Component</u>	<u>OSHA Carcinogen</u>	<u>IARC Carcinogen</u>	<u>NTP Carcinogen</u>	<u>Irritant</u>	<u>Sensitizer</u>
d-Limonene	No	No	No	E (severe) / S (severe) / R (mild)	Unknown
Stoddard solvent	No	No	No	E (mild) / S (mild)	Unknown

E – Eye	S – Skin	R - Respiratory
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Reproductive Toxicity: No information available

Teratogenicity: No information available

Mutagenicity: No information available

Synergistic Effects: No information available

Section 12: Ecological Information

Ecological studies have not been conducted for this product. The following information is available for components of this product.

Ecotoxicity: d-Limonene may be toxic to aquatic organisms

Persistence / Degradability: No information available

Bioaccumulation / Accumulation: No information available

Mobility in Environment: No information available

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Section 13: Disposal Considerations

Waste Classification: This product is a RCRA hazardous waste for the characteristic of ignitability with a waste code of D001. (See 40 CFR Part 261.20 – 261.33)
Empty aerosol containers may be recycled.

All disposal activities must comply with federal, state, provincial and local regulations. Local regulations may be more stringent than state, provincial or national requirements.

Section 14: Transport Information

US DOT (ground):	14171, 14172 14173, 14174	Combustible liquid, N.O.S. (d-limonene), NA1993, PGIII, Limited Quantity Combustible liquid, N.O.S. (d-limonene), NA1993, PGIII
ICAO/IATA (air):	14171, 14172 14173, 14174	Flammable liquid, N.O.S. (d-limonene), UN1993, 3, PGIII, Limited Quantity Flammable liquid, N.O.S. (d-limonene), UN1993, 3, PGIII
IMO/IMDG (water):	14171, 14172 14173, 14174	Flammable liquid, N.O.S. (d-limonene), UN1993, 3, PGIII, Limited Quantity Flammable liquid, N.O.S. (d-limonene), UN1993, 3, PGIII

Special Provisions: Per 49 CFR 173.150(f)(2), a material classed as a combustible liquid (in non-bulk packaging) is not subject to the shipping requirements of Subchapter C, including marking, placarding and shipping paper requirements. This applies to ground transportation only.

Section 15: Regulatory Information

U.S. Federal Regulations:

Toxic Substances Control Act (TSCA):

All ingredients are either listed on the TSCA inventory or are exempt.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

Reportable Quantities (RQ's) exist for the following ingredients: None

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Superfund Amendments Reauthorization Act (SARA) Title III:

Section 302 Extremely Hazardous Substances (EHS): None

Section 311/312 Hazard Categories:	Fire Hazard	Yes
	Reactive Hazard	No
	Release of Pressure	No
	Acute Health Hazard	Yes
	Chronic Health Hazard	No

Section 313 Toxic Chemicals: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:
None

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): None

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Occupational Safety and Health Administration:

This product is regulated by the Hazard Communications Standard.

U.S. State Regulations:

California Safe Drinking Water and Toxic Enforcement Act (Prop 65):

This product may contain the following chemicals known to the state of California to cause cancer, birth defects or other reproductive harm: None

Consumer Products VOC Regulations: In states with Consumer Products VOC regulations, this product is Not for Retail Sale. This product is for use in the manufacturing process only.

State Right to Know:

New Jersey: 8052-41-3
Pennsylvania: 8052-41-3
Massachusetts: 8052-41-3
Rhode Island : 8052-41-3

Canadian Regulations:

Controlled Products Regulations:

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulation and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS Hazard Class: B3, D2B

Canadian DSL Inventory: All ingredients are either listed on the DSL Inventory or are exempt.

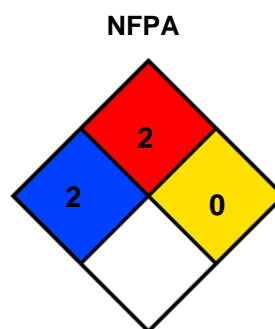
European Union Regulations:

RoHS Compliance: This product is compliant with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003. This product does not contain any of the restricted substances as listed in Article 4(1) of the RoHS Directive.

Additional Regulatory Information: None

Section 16: Other Information

HMIS® (II)	
Health:	2
Flammability:	2
Reactivity:	0
PPE:	B



Ratings range from 0 (no hazard) to 4 (severe hazard)

Prepared By: Michelle Rudnick
CRC #: 598B
Revision Date: 09/27/2012

Changes since last revision: Section 9: Evaporation Rate

Product Name: Citrus Degreaser (bulk)

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The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this MSDS consult your supervisor, a health & safety professional, or CRC Industries.

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstract Service

CFR: Code of Federal Regulations

DOT: Department of Transportation

DSL: Domestic Substance List

g/L: grams per Liter

HMIS: Hazardous Materials Identification System

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

IMDG: International Maritime Dangerous Goods

IMO: International Maritime Organization

lbs./gal: pounds per gallon

LC: Lethal Concentration

LD: Lethal Dose

NA: Not Applicable

ND: Not Determined

NIOSH: National Institute of Occupational Safety & Health

NFPA: National Fire Protection Association

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PMCC: Pensky-Martens Closed Cup

PPE: Personal Protection Equipment

ppm: Parts per Million

RoHS: Restriction of Hazardous Substances

STEL: Short Term Exposure Limit

TCC: Tag Closed Cup

TWA: Time Weighted Average

WHMIS: Workplace Hazardous Materials Information System