



Material Safety Data Sheet

Section 1: Product & Company Identification

Product Name: Citrus Engine Degreaser (Aerosol)

Product Number (s): 05027

Manufactured By:

CRC Industries, Inc.
885 Louis Drive
Warminster, PA 18974
www.crcindustries.com

General Information	(215) 674-4300
Technical Assistance	(800) 521-3168
Customer Service	(800) 272-8963
24-Hr Emergency (CHEMTREC)	(800) 424-9300

Section 2: Hazards Identification

Emergency Overview

Appearance & Odor: Clear amber liquid, citrus odor

DANGER

Flammable. Harmful or Fatal if Swallowed. Eye & Skin Irritant. Contents Under Pressure.

As defined by OSHA's Hazard Communication Standard, this product is hazardous.

Potential Health Effects:

EYE: May cause moderate to severe irritation. May cause corneal injury. Effects may include discomfort, pain, redness and tearing. Effects may be slow to heal.

SKIN: May cause moderate irritation with extended contact. Prolonged or widespread skin contact may lead to absorption of material through skin.

INHALATION: Expected to have a low degree of toxicity by inhalation. Effects of overexposure may include irritation of the nose and throat, transient excitation followed by signs of nervous system depression (headache, drowsiness, dizziness, loss of coordination, disorientation and fatigue).

INGESTION: Low degree of toxicity by ingestion. May cause irritation of the digestive tract, nausea and vomiting. Main hazard is aspiration of material into lungs during swallowing or vomiting. This can lead to chemical pneumonitis (inflammation of the lungs) and possible death.

CHRONIC EFFECTS: Inadequate evidence available to evaluate cancer hazard. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

TARGET ORGANS: No data available

Medical Conditions Aggravated by Exposure: skin disorders, respiratory (asthma-like) disorders

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

Section 3: Composition/Information on Ingredients

COMPONENT	CAS NUMBER	% by Wt.
Hydrotreated light distillate	64742-47-8	75 - 85
Detergent	68412-54-4	5 - 10
2-Butoxyethanol	111-76-2	4.0
D-limonene	5989-27-5	1 – 5
Orange oil	8028-48-6	1 - 5
Carbon dioxide	124-38-9	1 - 5

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 or give anything by mouth due to aspiration hazard. If victim is drowsy or unconscious and vomiting, place on the left side with the head down. Contact a physician immediately.

Note to Physicians: Aspiration hazard. Treat symptomatically.

Section 5: Fire-Fighting Measures

Flammable Properties: This product is flammable in accordance with aerosol flammability definitions (16 CFR 1500.3(c)(6)).

Flash Point:	158 F (TCC)	Upper Explosive Limit:	5.0
Autoignition Temperature:	ND	Lower Explosive Limit:	0.7

Suitable Extinguishing Media: Dry chemical, carbon dioxide, foam or water spray is recommended

Products of Combustion: Oxides of carbon

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. Vapors are heavier than air and can accumulate in low areas. If container is not properly cooled, it can rupture in the heat of a fire.

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: Remove possible 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.

Section 7: Handling and Storage

Handling Procedures: Do not use near possible sources of ignition. Provide ventilation during use. Avoid inhaling vapors. Avoid contact with skin and eyes. Use caution in confined spaces. Wash hands after use and before consuming food.

Storage Procedures: Store in a cool dry area out of direct sunlight. Aerosol cans must be maintained below 120 F to prevent cans from rupturing. Make sure storage area is properly ventilated.

Aerosol Storage Level: III

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

COMPONENT	OSHA		ACGIH		OTHER		UNIT
	TWA	STEL	TWA	STEL	TWA	SOURCE	
Hydrotreated light distillate	NE	NE	NE	NE	NE		
Detergent	NE	NE	NE	NE	NE		
2-Butoxyethanol	50	NE	20	NE	NE		ppm
D-Limonene	NE	NE	NE	NE	30	AIHA	ppm
Orange oil	NE	NE	NE	NE	NE		
Carbon dioxide	5000	30000 (v)	5000	30000	NE		ppm
N.E. – Not Established (c) – ceiling (s) – skin (v) – vacated							

Engineering Controls: Area should have ventilation to provide fresh air. Use local exhaust to prevent accumulation of vapors. 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. Use a NIOSH-approved cartridge respirator with organic vapor cartridge if vapors exceed exposure limits. 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 neoprene. 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 amber
Odor: citrus
Specific Gravity: 0.8139
Initial Boiling Point: 435 F
Freezing Point: ND
Vapor Pressure: ND
Vapor Density: 4.5 (air = 1)
Evaporation Rate: < 1 (butyl acetate = 1)
Solubility: insoluble in water
pH: NA
Volatile Organic Compounds: wt %: 9 g/L: 73.3 lbs./gal: 0.61

Section 10: Stability and Reactivity

Stability: Stable
Conditions to Avoid: Potential sources of ignition; temperature extremes
Incompatible Materials: Strong oxidizing agents, strong acids
Hazardous Decomposition Products: Oxides of carbon, aldehydes, ketones, organic acids
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 EFFECTS

<u>Component</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
Hydrotreated light distillate	LD50	> 5 g/kg	Oral	Rat
2-Butoxy Ethanol	LD50	470 mg/kg	Oral	Rat
Hydrotreated light distillate	LC50	> 5 mg/L/4H	Inhalation	Rat
2-Butoxy Ethanol	LC50	2.21 mg/L/4H	Inhalation	Rat
Hydrotreated light distillate	LD50	> 2 g/kg	Dermal	Rabbit

CHRONIC EFFECTS

Carcinogenicity:

	<u>Component</u>	<u>Result</u>
OSHA:	Ethylbenzene	Hazard Communication Carcinogen
IARC:	Ethylbenzene	Group 2B – Possibly Carcinogenic
NTP:	None listed	

Mutagenicity: No data 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: hydrotreated light distillate - 96 Hr LC50 Pimephales promelas: 45 mg/L [flow-through]
2-Butoxy Ethanol - 24 Hr LC50 water flea: 1720 mg/L
Persistence / Degradability: No data available
Bioaccumulation / Accumulation: No data available
Mobility in Environment: No data available

Section 13: Disposal Considerations

Disposal: The dispensed liquid product is not a RCRA hazardous waste (See 40 CFR Part 261.20 – 261.33). If this material is mixed with other materials, the resulting waste should be evaluated for waste classification. Aerosol containers should be emptied and depressurized before disposal. Empty containers may be recycled.

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

Section 14: Transport Information

Proper shipping description:

US DOT (ground): Consumer Commodity, ORM-D

Special Provisions: None

Section 15: Regulatory Information

U.S. Federal

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	Yes
	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:
Glycol ethers (4%)

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): None

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: ethylene oxide (<0.001%)
1,4-dioxane (<0.002%)

State Right to Know:

New Jersey: 124-38-9
Pennsylvania: 124-38-9
Massachusetts: 124-38-9
Rhode Island : 124-38-9

Additional Regulatory Information: In states with Consumer Products VOC regulations, this product is compliant as an Engine Degreaser.

Section 16: Other Information

NFPA: Health: 2 Flammability: 2 Reactivity: 0
HMIS: Health: 2 Flammability: 2 Reactivity: 0 PPE: B

Prepared By: Michelle Rudnick
CRC #: 675
Revision Date: 05/13/2009

Changes since last revision: Section 3: CAS number revised

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.

CAS: Chemical Abstract Service NA: Not Applicable
ppm: Parts per Million ND: Not Determined
TCC: Tag Closed Cup NE: Not Established
PMCC: Pensky-Martens Closed Cup g/L: grams per Liter
PPE: Personal Protection Equipment lbs./gal: pounds per gallon
TWA: Time Weighted Average STEL: Short Term Exposure Limit
OSHA: Occupational Safety and Health Administration AIHA: American Industrial Hygiene Assoc.
NIOSH: National Institute of Occupational Safety & Health OTC: Ozone Transport Commission
ACGIH: American Conference of Governmental Industrial Hygienists