

MATERIAL SAFETY DATA SHEET

Section 1: Product & Company Identification

Product Name: Citrus Solv II (aerosol)

Product Number (s): BD1505

Product Use: General purpose degreaser

Distributed By:

Class C Solutions Group
A business of MSC Industrial Supply Co.
75 Maxess Road
Melville, NY 11747

| | |
|---------------------|---|
| General Information | 866-438-6767 M-F 8AM - 5PM |
| 24-Hr Emergency | 800-424-9300 (US) 703-527-3887 (International) |

Section 2: Hazards Identification

Emergency Overview

WARNING: May Cause Eye and Skin Irritation. Contents Under Pressure.
Appearance & Odor: Creamy white liquid, citrus odor

Potential Health Effects:

ACUTE EFFECTS:

EYE: May cause eye irritation including burning and redness. Severity of irritation will depend upon quantity 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. May cause an allergic skin reaction.

INHALATION: Inhalation of small amounts is not expected to cause negative health effects. Prolonged exposure may cause a headache or irritation to the throat.

INGESTION: Ingestion of small amounts is not expected to cause negative health effects. Ingestion of larger amounts may cause stomach ache and irritation of the gastrointestinal tract.

CHRONIC EFFECTS: None known

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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Methods for Containment & Clean-up: 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 mix this product with other household chemicals. Avoid contact with eyes and skin. Wash hands after use and before consuming food. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. For product use instructions, please see the product label.

Storage Procedures: Store in a cool dry area out of direct sunlight. Aerosol cans must be maintained below 120°F / 49°C to prevent cans from rupturing. Store out of reach of children.

Aerosol Storage Level: I

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

| COMPONENT | OSHA | | ACGIH | | OTHER | | UNIT |
|--|------|------|-------|------|-------|--------|------|
| | TWA | STEL | TWA | STEL | TWA | SOURCE | |
| Water | NE | NE | NE | NE | NE | | |
| d-Limonene | NE | NE | NE | NE | 30 | AIHA | ppm |
| Methyl ester, soybean oil | NE | NE | NE | NE | NE | | |
| Ethoxylated tallow amine | NE | NE | NE | NE | NE | | |
| Tallow alkyl amines | | | | | | | |
| 1,1-Difluoroethane | NE | NE | NE | NE | 1000 | AIHA | 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 rubber or nitrile. Also, use full protective clothing if there is prolonged or repeated contact of liquid with skin.

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Section 9: Physical and Chemical Properties

Physical State: liquid

Color: creamy white

Odor: citrus

Odor Threshold: ND

Specific Gravity: 0.96

Initial Boiling Point: 212°F / 100°C

Freezing Point: -140°F / -96°C

Vapor Pressure: 1191.4 hPa (estimated)

Vapor Density: ND (air = 1)

Evaporation Rate: slow

Solubility: soluble in water

Coefficient of water/oil distribution: ND

pH: 10.0

Volatile Organic Compounds: wt %: 9.8 g/L: 95.0 lbs./gal: 0.79

Section 10: Stability and Reactivity

Stability: Stable

Conditions to Avoid: None

Incompatible Materials: Strong oxidizers, strong acids

Hazardous Decomposition Products: Oxides of orange terpenes

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> |
|---------------------------|------------------------|-----------------------------|------------------------------|
| Water | > 90 mL/kg | No data | No data |
| d-Limonene | 4400 mg/kg | > 5 g/kg | No data |
| Methyl ester, soybean oil | > 5000 mg/kg | > 2000 mg/kg | No data |
| Ethoxylated tallow amine | 620 mg/kg | No data | No data |
| Tallow alkyl amines | 2000 mg/kg | No data | No data |
| 1,1-Difluoroethane | > 1500 mg/kg | No data | 64,000 ppm/4H |

Chronic Toxicity:

| <u>Component</u> | <u>OSHA Carcinogen</u> | <u>IARC Carcinogen</u> | <u>NTP Carcinogen</u> | <u>Irritant</u> | <u>Sensitizer</u> |
|---------------------------|------------------------|------------------------|-----------------------|-----------------|-------------------|
| Water | No | No | No | No | No |
| d-Limonene | No | No | No | eye, skin | Yes |
| Methyl ester, soybean oil | No | No | No | No | Unknown |
| Ethoxylated tallow amine | No | No | No | eye | Unknown |
| Tallow alkyl amines | No | No | No | No | Unknown |
| 1,1-Difluoroethane | No | No | No | No | Unknown |

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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: No information available
Persistence / Degradability: Over 96% of the product ingredients are biodegradable.
Bioaccumulation / Accumulation: No information available
Mobility in Environment: No information available

Section 13: Disposal Considerations

Waste Classification: The dispensed liquid product is not a hazardous waste. Aerosol containers should be emptied and depressurized before disposal.
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): UN1950, Aerosols, non-flammable, 2.2, Limited Quantity
ICAO/IATA (air): UN1950, Aerosols, non-flammable, 2.2, Limited Quantity
IMO/IMDG (water): UN1950, Aerosols, 2.2, Limited Quantity, Marine Pollutant
Special Provisions: IMDG regulated marine pollutant

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

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| | | |
|------------------------------------|-----------------------|-----|
| Section 311/312 Hazard Categories: | Fire Hazard | No |
| | 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:
None

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): None

Canadian Regulations:

Controlled Products Regulations:

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

WHMIS Hazard Class: A, D2B

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

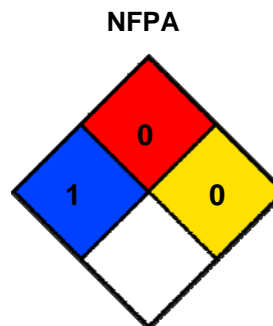
European Union Regulations:

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: | 1 |
| Flammability: | 0 |
| Reactivity: | 0 |
| PPE: | B |



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

Revision Date: 11/14/2014

Changes since last revision: Section 3: Composition/Information on Ingredients
Section 11: Toxicological Information
Section 14: Transport Information

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 our knowledge or obtained from sources believed 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, or a health & safety professional.

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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: Pinsky-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

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