Citrus Burst® 7 Page 1 of 6

## d-Limonene: The Safer Citrus Solvent from Florida Cl

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## Florida Chemical Company, Inc.

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## MATERIAL SAFETY DATA SHEET

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# **EMERGENCY PHONE NUMBERS:** FLORIDA CHEMICAL: (863) 294-8483

CHEMTREC 24 Hour Number: (800) 424-9300

In Canada, CANUTEC: (613) 996-6666

#### I. PRODUCT IDENTIFICATION

Tradename: Citrus Burst® 7

Chemical Name: d-Limonene/Carboxylate Ester Common Name: d-Limonene/Ester Solvent

**Caution:** The user should conduct his/her own experiments and establihs proper procedures and control before attempting use on critical parts.

#### II. INGREDIENTS

Chemical Name	CAS No.	% Weight	<b>Exposure Limits</b>
d-Limonene	5989-27-5	20 - 80	N/E
Ester Solvent	Proprietary	20 - 80	N/E

## III. PHYSICAL DATA (Determined on Typical Data)

Boiling Point: 292° F Specific Gravity (H20 = 1) 0.921 Vapor Pressuere (mmgHg): 1.0 @ 68° F

**Percent Volatile by** 

97+

Volume%:

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**Solubility:** 50% in water

Citrus Burst® 7 Page 2 of 6

Clear colorless to slightly yellow liquid. Mild **Physical Description:** 

orange aroma

**Evaporation Rate (butyl** 

acetate = 1):

0.28

pH of Water Dispersion 7.3, 10% solution

#### IV. FIRE & EXPLOSION HAZARD DATA

127° F ASTM D93 Flash Point: @ 212° F - No data Flammable Limits:

**Extinguishing Media:** Water, water fog, foam, CO2

**Special Fire Fighting** 

None required **Procedures:** 

**Incompatibility (Materials to** Strong oxidizing agents, acids, halogens

Avoid): **Hazardous Polymerization:**  and peroxides None known

**Hazardous Decomposition** 

Carbon dioxide, carbon monoxide

**Products:** 

**Stability Considerations:** 

Stable

**Conditions to Avoid:** None known

#### V. HEALTH HAZARD DATA

#### ACUTE HEALTH EFFECTS

Eves:

**Skin Contact:** May be irritating to skin. Contains a potential skin

sensitizer

Product is harmful if swallowed Ingestion:

Inhalation: Prolonged exposure may cause irritation of

mucous membranes

CHRONIC HEALTH EFFECTS NONE KNOWN. NOT LISTED AS A

CARCINOGEN

**Medical Conditions** Mist may cause eye/respiratory irritaiotn with

Aggravated by Exposure: coughing.

Most common - skin and inhalation **Routes of Entry:** 

**EMERGENCY & FIRST AID** 

**PROCEDURES** 

Flush with water for at least 15 minutes. See a Eyes:

medical doctor immediately

Wash affected area with copious amounts of Skin:

soap and water. If irritation develops, seek

medical attention

Seek medical attention immediately. DO NOT Ingestion:

induce vomiting.

Remove person to fresh air. If discomfort occurs Inhalation:

and persists, seek medical attention

#### VI. SPILL OR LEAK PROCEDURES

Citrus Burst® 7 Page 3 of 6

Cover with large quantity of absorbent material (e.g. kitty litter) and collect in drums for disposal. Clean contaminated area with soap and water.

**Waste Disposal Method:** Take up with sand or other non-combustible absorbent material and place into container for later disposal. Wash area with soap and water. Dispose in accordance with applicable Local, State, Federal and Environmental regulations. Taking regulations into consideration, waste may be incinerated or handled through EPA Spill Control Plan via landfill or dilution.

#### VII. SPECIAL PROTECTION INFORMATION

**Respiratory Protection:** None required where adequate ventilation

conditions exist. If vapor concentration becomes

high, use NIOSH approved respirators.

**Ventilation:** Local exhaust should be adequate, mechanical

ventilation otherwise recommended if necessary.

**Skin Protection:** Impervious gloves to prevent skin contact.

**Eye Protection:** Oil resistant goggles

Other Protective Equipment: Oil resistant apron recommended, industrial

safety shoes are recommended in all industrial settings, emergency eye wash and shower

stations.

**Appropriate Hygience Practices:** Wash thoroughly after handling. Launder

contaminated clothing before re-use.

DO NOT SMOKE IN AREAS OF STORAGE OR USE.

#### VIII. TRANSPORTATION INFORMATION

**TDG Status:** Hazardous DOT Label/Placard [exemption § 173.150(f)

applies:

**IMO Status:** Hazardous Highway/Rail: per requirements for Combustible

Liquids

IATA Status: Hazardous Air/Ship: per requirements for Flammable

Liquids

SHIPPING CLASSIFICATION:

**Proper Shipping Name:** TERPENE HYDROCARBONS, N.O.S.

Hazard Class: 3

Identification No. UN2319

Packing Group:

The listed transportation classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptions.

#### **National Fire Protection Association Hazard Rating:**

1 Health Hazard - Slight

2 Flammability - Moderate

Citrus Burst® 7 Page 4 of 6

#### 0 Reactivity - Minimal

#### IX. STORAGE AND HANDLING

**Handling:** Keep container tightly closed. Minimize exposure to air. Store in a cool, cry, well-ventilated liquid storage area.

**Ventilation:** Use adequate general or local exhaust ventilation to keep vapor and mist levels as low as possible.

**Storage:** Store in a cool dry area, away from oxidizers and acids.

**Precautions to be taken in Handling & Storage:** Avoid all contact with eyes or skin. Wear appropriate protective equipment. Protect containers from physical damage.

#### X. ECOLOGICAL INFORMATION

**Environmental Fate:** 100% Biodegradable.

Environmental Effects: No adverse effects known or suspected. Not listed as a toxic

chemical under SARA Title III 302, 304 or 313.

#### XI. REGULATORY INFORMATION

OSHA EXPOSURE LIMITS SUBSTANCE(S): d-Limonene, Ester Solvent

**OSHA PEL-TWA** None established None established STEL: **CEILING:** None established **SKIN DESIGNATION:** None established **AGGIH TLV-TWA:** None established STEL: None established **CEILING:** None established SKIN DESIGNATION: None established

TARGET ORGAN EFFECTS: Eye
CARCINOGENIC POTENTIAL: None
REGULATED BY OSHA: No
LISTED ON NTP REPORT: No
IARC GROUP 1, 2A, 2D No

US EPA REQUIREMENTS RELATIONS REPORTING CERCLA (40 CFR 302)

LISTED SUBSTANCE(S):

RQ:

CATEGORY:

Not applicable

Not applicable

Not applicable

**UNLISTED SUBSTANCES(S):** d-Limonene, Ester Solvent

RQ: None

CHARACTERISTIC: Not applicable RCRA WASTE NO: Not applicable

Citrus Burst® 7 Page 5 of 6

SARA TITLE III SEC 313 (40 CFR 372)

LISTED TOXIC CHEMICAL: Not listed

**INVENTORY REPORTING SARAH TITLE III** 

SEC 311/312 (40 CFR 370)

SUBSTANCE(S):

HAZARD CATEGORY:

PLANNING THRESHOLD:

Not applicable

Not applicable

Not applicable

SARA TITLE III SEC 302-303 (40 CFR 355)

LISTED SUBSTANCES(S) Not listed

RQ: Not applicable PLANNING THRESHOLD: Not applicable

US TSCA STATUS: Listed

**CANADA INGREDIENT DISCLOSURE LIST** 

SUBSTANCE(S)

**CONTROLLED PRODUCT:** 

HAZARD SYMBOLS: CLASS AND DIVISION:

PRODUCT IDENTIFICATION NO: DOMESTIC SUBSTANCE LIST:

**CEPA PRIORITY LIST:** 

CARCINOGENICITY: Not listed in either OSHA, ACHIG, NTP or

IARC

ACGIH APPENDIX A:

A1 - CONFIRMED HUMAN:

Not listed

Not listed

IARC GROUP 1 OR 2:

LABEL LANGUAGE (US/CANADA) HEALTH: Not applicable

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Citrus Burst® 7 Page 6 of 6

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