



# Material Safety Data Sheet

Revision Date 16-Mar-2011

## 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product code 97936  
Product name Foamy Orange Citrus Degreaser  
Recommended Use Degreaser

Supplier Lawson Products, Inc.  
1666 East Touhy Avenue  
Des Plaines, IL 60018  
(847)-827-9666

Emergency telephone number (888) 426-4851

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

Vapors irritating to eyes and respiratory tract. Vapors may cause flash fire or explosion.

### Aggravated Medical Conditions

None Known

### Principal Routes of Exposure

Eyes. Ingestion. Inhalation. Skin contact.

### Potential health effects

**Eyes** Exposure to vapors may cause the following effects: Irritation. Pain. Tearing. Reddening. Swelling. Stinging sensation. Feeling like that of fine dust in the eye.

**Skin** Repeated or prolonged exposure may cause: Defatting. Skin Irritation. Dermatitis.

**Inhalation** Long-term exposure may cause the following effects: Headaches. Dizziness. Nausea. Decreased blood pressure. Changes in heart rate. Cyanosis. Harmful by inhalation.

**Ingestion** Harmful or fatal if swallowed. Corrosive. If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach. Extreme overexposure may cause. Kidney damage. Liver abnormalities.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
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D-Limonene	5989-27-5	7-13
Propane/Isobutane/N-Butane	68476-86-8	10-30
Isopropyl Alcohol	67-63-0	3-7

## 4. FIRST AID MEASURES

**Eye contact** Flush eyes with plenty of water. Seek medical attention if irritation persists.

**Skin contact** Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. Seek medical attention if irritation persists.

**Ingestion** Seek medical attention immediately. Do not induce vomiting. Give victim a glass of milk. Call a physician or Poison Control Center immediately. Never give anything by mouth to an unconscious person.

**Inhalation** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Immediate medical attention is required.

## 5. FIRE FIGHTING MEASURES

**Flash point °C** -104  
**Flash point °F** -156  
**Method** Pensky-Martens C.C.

**Autoignition temperature °C** No data available  
**Autoignition temperature °F** No data available

**Flammability Limits (% in Air)**  
**Upper** 12.0%  
**Lower** 0.7%

**Suitable extinguishing media**  
Alcohol foam. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Foam. Water fog.

**Special protective equipment for firefighters**  
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**Fire and Explosion Hazards**  
Flash back possible over considerable distance. Empty containers contain residue and/or vapors. Do not weld, cut, pressurize, braze, solder, drill, grind, or expose such containers to heat, sparks, flame, static electricity, or other sources of ignition. They may explode and cause injury or death.

**Sensitivity to shock**

No information available.

**Sensitivity to static discharge**

No information available.

**6. ACCIDENTAL RELEASE MEASURES****Methods for cleaning up**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Place in suitable container for disposal as hazardous waste.

**7. HANDLING AND STORAGE****Handling**

Thoroughly wash hands and exposed skin after handling. Remove and wash contaminated clothing before re-use. Ensure adequate ventilation. Use only according to label directions. Empty containers are very hazardous. Containers can contain explosive vapors or residues. Avoid breathing vapors from heated material. Avoid contact with skin, eyes and clothing.

**Storage**

Containers exposed to extreme heat may burst. Keep away from heat and sources of ignition. Do not freeze.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Propane/Isobutane/N-Butane	-	-	-	N/D
D-Limonene	-	-	-	-
Isopropyl Alcohol	400 ppm 980 mg/m <sup>3</sup>	-	200 ppm	400 ppm

**Ventilation and Environmental Controls**

Use enough ventilation, local exhaust at the work area, general, or both, to keep below the TLV's in the worker's breathing zone and the general area. Use in a well ventilated area.

**Hygiene measures**

Wash hands before eating or using the washroom. Remove and wash contaminated clothing before re-use. Avoid contact with skin, eyes and clothing.

**Respiratory protection**

If the exposure limits are exceeded, a NIOSH/MSHA approved respirator is recommended. Protection provided by air purifying respirators is limited. Use a positive pressure supplied air respirator, if there is any potential for an uncontrolled release, where exposure levels are not known, or other circumstances where an air purifying respirator (P100) may not provide adequate protection.

**Hand Protection**

Chemical resistant gloves.

**Eye protection**

Use safety eyewear designed to protect against impact.

**Skin and body protection**

Lightweight protective clothing. Rubber or plastic boots.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Form	Aerosol
Color	Orange
Odor	Pleasant
Odor Threshold	No information available
pH	9
Specific Gravity	0.9172
Vapor pressure	40-50
Vapor density	>Air
Evaporation Rate	>1 (Butyl Acetate = 1)
Water solubility	Soluble in water
VOC Content	20.6%; 1.57 lbs/gal, 189 grams/ltr
Partition Coefficient (n-octanol/water)	Not Applicable
Boiling point/range °C	-41 - 162
Boiling point/range °F	-43 - 325
Melting point/range °C	< 0
Melting point/range °F	< 32
Flash point °C	-104
Flash point °F	-156

**10. STABILITY AND REACTIVITY****Stability**

Stable under recommended storage conditions.

**Conditions to avoid**

Avoid sources of ignition. Avoid open flames. Do not use near welding arcs.

**Incompatibility**

Strong acids. Alkalis. Oxidizers. Amines.

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Orange Citrus Degreaser****Hazardous Decomposition Products**

Carbon oxides. Nitrogen oxides (NOx). Chlorides. Chlorine. Phosgene .

**Polymerization**

Will not occur.

**11. TOXICOLOGICAL INFORMATION****Component Information**

Chemical Name	LD50 (oral, rat)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat)
Propane/Isobutane/N-Butane 68476-86-8	-	-	-
D-Limonene 5989-27-5	4400 mg/kg	2000 mg/kg	-
Isopropyl Alcohol 67-63-0	4396 mg/kg	12800 mg/kg 12870 mg/kg	72.6 mg/L

**Synergistic Products** None known**Potential health effects****Sensitization** None known**Chronic toxicity** See Section 2 .**Mutagenic effects** None known**Teratogenic effects** None known**Reproductive toxicity** None known**Target Organ Effects** See Section 2**Carcinogenic effects** See table below

Chemical Name	ACGIH OEL - Carcinogens	IARC	NTP - Known Carcinogens	NTP - Suspected Human Carcinogens	OSHA RTK Carcinogens
Propane/Isobutane/N-Butane	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
D-Limonene	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Isopropyl Alcohol	Listed	Not Listed	Not Listed	Not Listed	Not Listed

**12. ECOLOGICAL INFORMATION**

Isopropyl Alcohol

**Microtox Data***Photobacterium phosphoreum* EC50=35390 mg/L (5 min)**Water Flea Data***Daphnia magna* hEC50 48 (13299 mg/L)**13. DISPOSAL CONSIDERATIONS****Disposal Information**

Discard container or liner in accordance with federal, state, and local regulations.

**14. TRANSPORTATION INFORMATION****DOT**

UN1950 Aerosols, flammable, 2.1

*Exception:* (Compressed Gas not more than 1.0L) Consumer Commodity ORM-D**TDG**

UN1950 AEROSOLS, flammable, 2.1 Consumer commodity &lt;1L

**15. REGULATORY INFORMATION****US EPA SARA 313**

Chemical Name	US EPA SARA 313 Emission Reporting
Isopropyl Alcohol	Listed

**State Regulations**

Chemical Name	New Jersey - RTK	Pennsylvania - RTK	California Prop. 65
Propane/Isobutane/N-Butane	Not Listed	Not Listed	Not Listed
D-Limonene	Not Listed	Not Listed	Not Listed
Isopropyl Alcohol	Not Listed	Listed	Not Listed

**International Inventories**

Chemical Name	EINECS	DSL	NDSL	TSCA
Propane/Isobutane/N-Butane	X	X	-	X
D-Limonene	X	X	-	X
Isopropyl Alcohol	X	X	-	X

**CPR**

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

**16. OTHER INFORMATION****HMIS**Health - 1  
Flammability - 4  
Physical Hazard - 0

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**16. OTHER INFORMATION**

**Prepared By** H. Buck, Regulatory Affairs Manager

The information accumulated herein is believed to be accurate, but is not warranted to be, whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.