

Issue date 22-May-2018

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Revision Number 2

1. IDENTIFICATION

Product identification

Product identifier	Lawson Foamy Orange Citrus Solvent Cleaner/Degreaser
Other means of identification	97936A
Recommended use	Degreaser
Restrictions on use	For industrial use only

Supplier

Corporate Headquarters:
Lawson Products, Inc.
8770 W. Bryn Mawr Ave., Suite 900
Chicago, IL 60631
(866) 837-9908

Canadian Distribution Center:
Lawson Canada
7315 Rapistan Court
Mississauga, ON L5N 5Z4
(800) 323-5922

24 Hour Emergency Phone Number (888) 426-4851 (Prosar)

Website <https://www.lawsonproducts.com>

2. HAZARD(S) IDENTIFICATION

Hazard Classification This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), WHMIS 2015 and GHS Regulations.

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 3
Flammable aerosols	Category 1
Gases under pressure	Compressed gas

Symbol



Signal word

WARNING

Hazard statements

H315 - Causes skin irritation
H319 - Causes serious eye irritation
H317 - May cause an allergic skin reaction

H336 - May cause drowsiness or dizziness
H222 - Extremely flammable aerosol
H280 - Contains gas under pressure; may explode if heated

Precautionary statements

General

P101 - If medical advice is needed, have product container or label at hand
P102 - Keep out of reach of children
P103 - Read label before use.

Prevention

P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P264 - Wash face, hands and any exposed skin thoroughly after handling
P280 - Wear protective gloves/protective clothing and eye/face protection
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P272 - Contaminated work clothing should not be allowed out of the workplace
P271 - Use only outdoors or in a well-ventilated area
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.
P211 - Do not spray on an open flame or other ignition source
P251 - Pressurized container: Do not pierce or burn, even after use

Response

Eyes

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing
P337 + P313 - If eye irritation persists: Get medical advice/attention

Skin

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention
P363 - Wash contaminated clothing before reuse

Inhalation

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell

Ingestion

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P331 - Do NOT induce vomiting

Fire

P370 + P378 - In case of fire: Use carbon dioxide to extinguish

Spill

P391 - Collect spillage

Storage

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

Hazard(s) Not Otherwise Classified (HNOC)

Toxic to aquatic life with long lasting effects.

Physical Hazards Not Otherwise Classified (PHNOC)

None known.

Unknown acute toxicity

0.000019%.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Composition

Mixture.

Chemical name	CAS-No	Weight %
1,1-Difluoroethane	75-37-6	20-30
Soybean Oil, Methyl Ester	67784-80-9	1-10
Ethoxylated Amine	Proprietary	1-10
D-Limonene	5989-27-5	1-10
Amine, ethoxylated	PROPRIETARY	1-10

The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST-AID MEASURES

Necessary first-aid measures

Inhalation	Move to fresh air. If not breathing, give artificial respiration. If breathing has stopped, contact emergency medical services immediately.
Ingestion	Do NOT induce vomiting. Call a physician or Poison Control Center immediately. Never give anything by mouth to an unconscious person. Risk of product entering the lungs on vomiting after ingestion.
Skin contact	Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use.
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Seek medical attention IMMEDIATELY.

Most important symptoms (acute) Eye irritation. May cause allergic skin reaction.

Most important symptoms (over-exposure) Eye irritation. May cause allergic skin reaction.

Indication of any immediate medical attention and special treatment needed Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Water fog. Dry chemical. Carbon dioxide (CO2). Foam. Cool containers / tanks with water spray.
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.
Specific hazards	Extremely Flammable Aerosol. Container may burst in fire. Extremely flammable. Sensitivity to static discharge.
Special protective equipment for fire-fighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Use shielding to protect fire-fighters from bursting containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation. Absorb with earth, sand, or another dry inert material. Hard surfaces may be mopped with water. Remove all sources of ignition. Report spills as required by local and federal regulations.
Methods and materials for containment and	Prevent further leakage or spillage if safe to do so. Contain liquid and collect with an inert, non-combustible material. Soak up with inert absorbent material.

cleaning up

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with eyes. Avoid breathing vapors or mists. Contents under pressure. Do not puncture or incinerate cans. Do not stick pin, nail, or any other sharp object into opening on top of can. Avoid skin contact. Use with adequate ventilation. Keep container away from heat, flames, and all other sources of ignition. Keep can away from all sources of electricity such as electric motors and batteries. Do not spray on hot surfaces.

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store away from oxidizers. Store away from acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical name	OSHA PEL (TWA)	ACGIH OEL (TWA)	NIOSH - TWA
1,1-Difluoroethane	-	-	-
Soybean Oil, Methyl Ester	-	-	-
Ethoxylated Amine	-	-	-
D-Limonene	-	-	-
Amine, ethoxylated	-	-	-

Appropriate engineering controls

Ventilation systems. Use adequate ventilation to keep the exposure levels below the OELs.

Individual protection measures, such as personal protective equipment

Eye protection

Safety glasses with side-shields. Goggles.

Skin and body protection

Chemical resistant apron. Protective gloves.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, a NIOSH/MSHA approved respirator is recommended. Positive-pressure supplied air respirators may be required for high airborne contaminant concentration. Respiratory protection must be provided in accordance with current local regulations.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

Canadian Province Occupational Exposure Limits

Chemical name	AB	BC	MB	NB	NL	NS	ON	PE	QC	SK
1,1-Difluoroethane	-	-	-	-	-	-	-	-	-	-
Soybean Oil, Methyl Ester	-	-	-	-	-	-	-	-	-	-
Ethoxylated Amine	-	-	-	-	-	-	-	-	-	-
D-Limonene	-	-	-	-	-	-	-	-	-	-
Amine, ethoxylated	-	-	-	-	-	-	-	-	-	-

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state

Aerosol

Color

White, Opaque

Odor	Fragrance
Odor threshold	Not available
pH	9.75
Melting point/range °C	Not available
Melting point/range °F	Not available
Boiling point/range °C	Not available
Boiling point/range °F	Not available
Flash point °C	-50
Flash point °F	-58
Flash point method used	based on propellant
Evaporation rate	Not available
Flammability (Solid, Gas)	Not available
Lower explosion limit	Not available
Upper explosion limit	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	0.948
Solubility	Practically insoluble in water
Partition coefficient (n-octanol/water)	Not available
Autoignition temperature °C	Not available
Autoignition temperature °F	Not available
Decomposition temperature °C	Not available
Decomposition temperature °F	Not available
Viscosity	Not available

10. STABILITY AND REACTIVITY

Reactivity	Not available.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Avoid direct sunlight. Avoid extreme temperatures.

Incompatible materials Incompatible with oxidizing agents. Acids.

Hazardous decomposition products carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure Dermal. Inhalation. Ingestion. Eyes.

Symptoms Inhalation may cause nose, throat, and respiratory tract irritation, coughing, and headache. Irritating to eyes and skin. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. May cause vomiting or headache. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash). Harmful if swallowed. Vapors may cause drowsiness and dizziness.

Delayed and immediate effects as well as chronic effects from short and long-term exposure Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Chronic hydrocarbon abuse has been associated with irregular heart rhythms and potential cardiac arrest. Prolonged skin contact may defat the skin and produce dermatitis.

Numerical measures of toxicity

Chemical name	Inhalation LC50:	Dermal LD50:	Oral LD50:
1,1-Difluoroethane	-	-	-
Soybean Oil, Methyl Ester	-	-	-
Ethoxylated Amine	-	-	-
D-Limonene	-	= 5200 mg/kg Rat = 4400 mg/kg Rat = 5300 mg/kg Rat >5 g/kg Rabbit	5200 mg/kg Rat 4400 mg/kg Rat 5300 mg/kg Rat Rat > 5 g/kg Rabbit
Amine, ethoxylated	-	-	-

ATEmix (dermal) 51394 mg/kg

ATEmix (oral) 45182 mg/kg

ATEmix (inhalation-gas) Not available

ATEmix (inhalation-vapor) Not available

ATEmix (inhalation-dust/mist) Not available

Carcinogenicity

Chemical name	ACGIH OEL - Carcinogens	IARC	OSHA Carcinogens	NTP
1,1-Difluoroethane	-	-	-	-
Soybean Oil, Methyl Ester	-	-	-	-
Ethoxylated Amine	-	-	-	-
D-Limonene	-	Group 2A Group 3	Present	-
Amine, ethoxylated	-	-	-	-

carcinogenicity limits

Chemical name	Alberta - Carcinogen	British Columbia - Carcinogen	Manitoba - Carcinogen	New Brunswick - Carcinogen	Nova Scotia - Carcinogen	Quebec - Carcinogen
1,1-Difluoroethane	-	-	-	-	-	-
Soybean Oil, Methyl Ester	-	-	-	-	-	-
Ethoxylated Amine	-	-	-	-	-	-
D-Limonene	-	-	-	-	-	-
Amine, ethoxylated	-	-	-	-	-	-

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish LC50
1,1-Difluoroethane	-	-
Soybean Oil, Methyl Ester	-	-
Ethoxylated Amine	-	-
D-Limonene	-	0.619 - 0.796mg/L Pimephales promelas 96h = 35mg/L Oncorhynchus mykiss 96h
Amine, ethoxylated	-	-

Persistence and degradability Not available.

Bioaccumulation

Chemical name	CAS-No	Partition coefficient (log Kow)	Bioconcentration factor (BCF)
1,1-Difluoroethane 75-37-6	75-37-6	-	-
Soybean Oil, Methyl Ester 67784-80-9	67784-80-9	-	-
Ethoxylated Amine Proprietary	Proprietary	-	-
D-Limonene 5989-27-5	5989-27-5	-	-
Amine, ethoxylated PROPRIETARY	PROPRIETARY	-	-

Mobility in soil Not available.

Other adverse effects Toxic to aquatic life with long lasting effects

13. DISPOSAL CONSIDERATIONS

Disposal information Dispose of in accordance with federal, state and local regulations.

Contaminated packaging Do not reuse containers.

14. TRANSPORTATION INFORMATION

Shipping Descriptions

DOT

ID-No UN1950
Proper shipping name Aerosols
Hazard Class(es) 2.1
Special Provisions LTD QTY

TDG

ID-No UN1950
Proper shipping name Aerosols
Hazard Class(es) 2.1
Special Provisions LTD QTY

IATA

ID-No UN1950
Proper shipping name Aerosols, flammable
Hazard Class(es) 2.1
Special Provisions LTD QTY

IMDG/IMO

ID-No UN1950
Proper shipping name Aerosols
Hazard Class(es) 2.1
Special Provisions LTD QTY

Marine Pollutants

Chemical name	CAS-No	USDOT Marine Pollutant	Canada TDG Marine Pollutant	IMDG Marine Pollutant
1,1-Difluoroethane	75-37-6	-	-	-
Soybean Oil, Methyl Ester	67784-80-9	-	-	-
Ethoxylated Amine	Proprietary	-	-	-
D-Limonene	5989-27-5	X	X	X
Amine, ethoxylated	PROPRIETARY	-	-	-

Special Precautions

Multi-modal shipping descriptions are provided for informational purposes and do not consider container size. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

15. REGULATORY INFORMATION**State regulations****U.S. state Right-to-Know regulations**

Chemical name	CAS-No	Massachusetts - RTK	New Jersey - RTK	Pennsylvania - RTK
1,1-Difluoroethane	75-37-6	X	X	-
Soybean Oil, Methyl Ester	67784-80-9	-	-	-
Ethoxylated Amine	Proprietary	-	-	-
D-Limonene	5989-27-5	-	X	-
Amine, ethoxylated	PROPRIETARY	-	-	-

California Prop. 65

Chemical name	CAS-No	California Prop. 65
1,1-Difluoroethane	75-37-6	-
Soybean Oil, Methyl Ester	67784-80-9	-
Ethoxylated Amine	Proprietary	-
D-Limonene	5989-27-5	-
Amine, ethoxylated	PROPRIETARY	-

U.S. Federal Regulations

US EPA SARA 313

Chemical name	CAS-No	CERCLA/SARA Hazardous Substances RQ	SARA 313 - Threshold Values
1,1-Difluoroethane	75-37-6	-	-
Soybean Oil, Methyl Ester	67784-80-9	-	-
Ethoxylated Amine	Proprietary	-	-
D-Limonene	5989-27-5	-	-
Amine, ethoxylated	PROPRIETARY	-	-

US EPA SARA 311/312
hazardous categorization

Acute Health Hazard
Chronic Health Hazard
Sudden Release of Pressure Hazard
Fire Hazard

TSCA and Canadian Inventories

Chemical name	Inventory - United States - Section 8(b) Inventory (TSCA)	U.S. - TSCA (Toxic Substances Control Act) - Section 12(b) - Export Notification	DSL	NDSL
1,1-Difluoroethane	X	-	X	-
Soybean Oil, Methyl Ester	X	-	X	-
Ethoxylated Amine	-	-	-	-
D-Limonene	X	-	X	-
Amine, ethoxylated	-	-	-	-

Legend X - Listed

16. OTHER INFORMATION

NFPA

NFPA

Health 2
Flammability 3
Instability 0

HMIS

Health 2
Flammability 3
Physical hazards 1
Personal protection B

Notice: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA).

Prepared by Regulatory Affairs

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Revision note

Key to abbreviations

ACGIH (American Conference of Governmental Industrial Hygienists)
ATE (Average Toxicity Estimate)
DSL/NDL (Domestic Substance List/Non-Domestic Substance List)
HMIS (Hazardous Materials Identification System)
IARC (International Agency for Research on Cancer)
IATA (International Air Transport Association)
IMDG/IMO (International Maritime Dangerous Goods/International Maritime Organization)
NFPA (National Fire Protection Association)
NTP (National Toxicology Program)
OEL (Occupational Exposure Level)
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
PEL (Permissible Exposure Limit)
TSCA (Toxic Substance Control Act)
USEPA (United States Environmental Protection Agency)

Disclaimer

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.

End of Safety Data Sheet