

Section 1: Identification

- 1.1 Product Identifier: FLORASOLV™ LX300
- 1.2 Substance Name: Hydrocarbons, Terpene processing, by-product
- 1.3 Use of the Substance: Solvents and cleaners
- 1.4 Suppliers Details: 1.5 Emergency Telephone Numbers
24 hrs Chem-Tel 800-255-3924 [within continental US]
24 hrs 813-248-0585 (collect) [outside continental US]

Section 2: Hazards Identification

2.1 Emergency Overview

2.1 GHS

Classification:

Physical Hazards

Flammable Liquids (3)

Health Hazards

Eye Irritation (2A)

Skin Irritation (2)

Skin Sensitizer (1A)

Aspiration Toxicity (1)

Environmental Hazards

Acute Aquatic Toxicity (1)

Chronic Aquatic Toxicity (2)

2.2 GHS Labeling:



2.2.1 Label Elements:

Signal Word: Danger

Hazard Statements:

H226: Flammable liquid and vapour
H304: May be fatal if swallowed and enters airways
H315: Causes skin irritation
H317: May cause an allergic skin reaction
H411: Toxic to aquatic life with long lasting effects

Precautionary Statements:

P501: Dispose of contents/container in accordance with all local, regional, national and international regulations.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P280: Wear protective gloves/protective clothing/eye protection/face protection
P337+313: If eye irritation persists get medical advice/attention
P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P302+352: IF ON SKIN: Wash with soap and water
P331: Do NOT induce vomiting
P333+313: If skin irritation or a rash occurs: Get medical advice/attention

2.3 Other hazards which do not result in classification: None determined.

Section 3: Composition / Information on Ingredients

Common Name	Chemical Name	CAS Number	EINECS No.	Weight %
Dipentene	Hydrocarbons, Terpene processing, by-product	68956-56-9	273-309-3	98 - 100
Antioxidant	4-methyl-2,6-di-tert-butylphenol	128-37-0	204-881-4	< 500 ppm
Fragrance package				0 - 2

Section 4: First Aid Measures

Inhalation	Remove person to fresh air and keep at rest in a comfortable position for breathing. See a physician if breathing difficulty persists.
Eye contact	EYE CONTACT: Flush eyes with clean water for 15 minutes. If irritation persists, seek medical attention.
Skin contact	In case of skin contact, wash thoroughly with soap and water.
Ingestion	Keep respiratory tract clear. Do Not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Get medical attention or contact a poison control center for advice

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Section 5: Fire-Fighting Measures

Flash point	48°C (118°F) (TCC)
Auto-ignition temperature	Not determined.
5.1 Suitable extinguishing media	Water fog or spray, Foam, Dry Powder, Carbon Dioxide (CO ₂).
Extinguishing media which must not be used	If water must be used, use as a spray only to lower temperature.
5.2 Hazardous decomposition products	FROM FIRE: Smoke, carbon dioxide and carbon monoxide.
Special protective equipment for fire fighters	Self-contained positive pressure breathing apparatus and protective clothing should be worn when fighting fires involving chemicals.
5.3 Precautions for fire fighters	DANGER - FLAMMABLE LIQUID! Vapors may cause flash fires. May cause eye or skin irritation. Harmful or fatal if swallowed. Vapors and spray mist are harmful if inhaled. May produce a floating fire hazard.
Unusual Fire and Explosions Hazards	Containers may explode from internal pressure if confined to fire. Cool with water. Keep unnecessary people away. Exercise care when disposing of rags contaminated with the product. Use normal precautions appropriate for oily rags.

Section 6: Accidental Release Measures

6.1 Protective measures	ELIMINATE ALL SOURCES OF IGNITION. Eliminate all sources of ignition in the vicinity of the spill or released vapor. If this material is released into the work area, evacuate the area immediately. Monitor area with combustible gas indicator. Wear appropriate personal protective equipment when cleaning up spills. Eliminate potential sources of ignition. Handling equipment must be bonded and grounded to prevent sparking.
6.2 Environmental Precautions	This product is a marine pollutant and is very toxic to aquatic organisms. Do not discharge into lakes, streams, ponds or public waters.
6.3 Spill Management	Exercise caution. Eliminate potential sources of ignition. Use spark-proof tools and explosion-proof equipment. Dike and contain spill. Small spills may be absorbed by sand or oil-absorbing materials. Large spills should be collected by pumping into closed containers for recovery or disposal. Spills over water will float and may be collected by oil absorbents and/or by skimming.

Section 7: Handling and Storage

7.1 Precautions for safe handling	Wear chemical safety glasses or goggles and chemically resistant gloves. A chemically resistant apron may be used to protect clothing. A respirator may be worn to prevent breathing spray mists or heated fumes. Take precautionary measures against static discharges.
7.2 Conditions for safe storage	No smoking. Store in original container, preferably in a cool, ventilated, fire-resistant building. Avoid heat, sparks, and open

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flames. Empty containers may retain product residues (vapor, liquid, or solid) all label precautions must be observed.

Section 8: Exposure Controls / Personal Protection

8.1 Exposure limits	AIHA WEEL 8-hr TWA (limonene) 30 ppm
8.2 Appropriate engineering controls	Use in a well-ventilated area.
Ventilation	Mechanical ventilation may be necessary at elevated temperatures to control odors.
8.3 PPE	Consistent with good occupational hygiene practices, personal protective equipment (PPE) should be used in conjunction with other control measures, including engineering controls, ventilation and isolation. See also section 5 (Fire-fighting measure) of the SDS for specific fire/chemical PPE advice.
Respiratory protection	A respirator is not normally required. If vapor concentration is high, use a NIOSH approved organic vapor respirator or a properly fitted, air-purifying or air-fed respirator complying with an approved standard.
Eye protection	Wear chemical safety glasses, goggles or face shield. Provide eye bath near work site.
Skin protection	Wear chemically resistant rubber gloves and apron to minimize exposure.
Personal hygiene measures	When using do not eat or drink. Wash hands and other exposed areas of skin with soap and water after handling the material.

Section 9: Physical and Chemical Properties

Appearance	Colorless to pale yellow liquid
Odor	Pine type
Odor threshold	Not determined.
pH	Not applicable.
Melting point/freezing point	Not determined.
Boiling point (initial)	170°C (338°F)
Flash point	48°C (118°F) (TCC)
Evaporation rate (BUAC =1)	Approximately 4
Flammability (Solid, gas)	Not determined.
Flammable limits (% by volume in air)	For a similar product; Lower Explosion Limit (LEL) 0.5 vol.% at 70°C ASTM E681 Lower Explosion Limit (LEL) 0.6 vol.% at 100°C ASTM E681 Upper Explosion Limit (UEL) 6.1 vol.% at 100°C ASTM E681 Limiting Oxygen Concentration (LOC) 9.25 vol% oxygen at 1.5 vol. % fuel and 176°C, L= 9.0%, H=9.25% ASTM E2079
Vapor pressure	approximately 2 mmHg @ 20°C
Relative vapor density (Air=1)	> 1
Relative density	0.87 @ 25°C
Solubility in water	< 0.1
Partition coefficient: n-octanol/water	Not determined.
Auto-ignition temperature	Not determined.

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Decomposition temperature	Not determined.
Viscosity	Not determined.

Section 10: Stability and Reactivity

10.1 Reactivity	Not determined.
10.2 Chemical stability	Product is stable and not reactive under conditions of normal use.
10.3 Hazardous polymerization	Hazardous polymerization will not occur.
10.4 Conditions to avoid	Prolonged or excessive heat and/or exposure to air may cause non-hazardous decomposition and/or oxidation.
10.5 Incompatible materials	May react with strong acids, bases, and oxidizing agents.
10.6 Hazardous decomposition products	Incomplete decomposition may produce carbon monoxide. Ultimate decomposition products are carbon dioxide and water.

Section 11: Toxicological Information

Target organs	Eyes. Skin.
Likely routes of exposure	Eye/skin contact.
Medical conditions aggravated by overexposure	No known conditions.
Symptoms related to overexposure	Prolonged exposure may cause skin irritation and/or sensitization.

11.1 Relevant Hazards

11.1 (a) Acute toxicity	Limonene: LD50 (rat): > 5000 mg/kg. Dipentene: LD50 (rat): > 3500 mg/kg
11.1 (b) Dermal contact	Limonene: LD50 (rabbit): > 5000 mg/kg Dipentene: LD50 (rabbit) > 5000 mg/kg
11.1 (c) Eye contact	Contact with the undiluted material may cause eye irritation.
11.1 (d) Respiratory or Skin sensitization	Product may contain trace amounts of oxidized material which are allergenic to sensitive individuals. Avoid repeated or prolonged contact with skin.
11.1 (e) Germ cell mutagenicity	Not determined for dipentene. Refer to WHO Concise International Chemical Assessment Document 5 for Limonene. Limonene: mouse lymphoma L5178Y test system, did not induce gene mutations Limonene; AMES Test; Negative
11.1 (f) Carcinogenicity	No component of the product is listed by IARC, ACGIH, and NTP
11.1 (g) Reproductive toxicity	Not determined.
11.1 (h) STOT – single exposure	Not determined.
11.1 (i) STOT repeated exposure	Not determined.
11.1 (j) Aspiration Hazard	Component categorized as a Cat 1 Aspiration Hazard.

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Section 12: Ecological Information

Toxicity	Product is a marine pollutant and is very toxic to aquatic organisms.
Persistence and degradability	92.7% in 21 days per method CEC L33T82.
Bio accumulative potential	Not determined.
Mobility in Soil	Not determined.
Other adverse effects	Not determined.

Section 13: Disposal Considerations

Disposal methods	This material, if discarded, would be considered a hazardous waste by EPA regulations 40 CFR 261 due to flammability. Dispose of this material at a local, state or federally approved landfill, incinerator or recovery facility. User must determine proper disposal method and classification when material is declared a waste.
Safe handling of wastes	Refer to Section 8 for information pertaining to personal protective equipment and exposure controls when handling this material for disposal.

Section 14: Transport Information

US DOT	UN2319, Terpene Hydrocarbons, N.O.S. (Limonene), 3, PGIII, Marine Pollutant
ICAO/IATA	UN2319, Terpene Hydrocarbons, N.O.S. (Limonene), 3, PGIII, Marine Pollutant
IMO/IMDG	UN2319, Terpene Hydrocarbons, N.O.S. (Limonene), 3, PGIII, Marine Pollutant
Shipping Label	Flammable Liquid (Cat 3), Marine Pollutant (Environmental Cat 1)
EXCEPTIONS	Refer to 49 CFR §173.150 & §171.4
USDOT Non-Bulk Packaging	FLORASOLV™ LX300 (Excepted from HMR as per §173.150 & §171.4)

Section 15: Regulatory Information

Chemical Inventories Status	
USA	Compliant
Canada	Compliant.
European Community	Compliant.
Australia	Compliant
Japan	Compliant
Korea	Compliant
Philippines	Compliant.
China	Compliant.
USA Federal and States Information	
OSHA - Hazardous by definition of 29 CFR 1910.1200 (Flammability)	
SARA 311/312 Hazard Category - Fire Hazard and Immediate (Acute) Health	

Section 16: Other Information

Risk phrases	R10 - Flammable
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R36/38 - Irritating to eyes and skin
R51/53 - Dangerous for the environment; Toxic to aquatic organisms, may cause long-term adverse effects on the aquatic environment.
R65 - Harmful: may cause lung damage if swallowed.
R43 - May cause sensitization by skin contact

Safety phrases

S25 - avoid contact with eyes
S26 - in case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S61 - avoid release to the environment. Refer to special instructions/safety data sheets
S24 - avoid contact with skin
S37 - wear suitable gloves
S62 - if swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

Abbreviations & Acronyms: STOT Specific Target Organ Toxicity

Revision Date: 24 August 2016

Supersedes Date: 8 April 2015

Reason for this revision:
8 April 2015 revision due to conversion to GHS Standard.
All sections converted.
24 August 2016 revision to Section 3 and Section 9

References and Sources for data