

# Safety Data Sheet

#### **Section 1: Identification**

**1.1 Product Identifier:** Legasolv LX311

**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

Legacy Chemical Corporation 24 hrs Chemtrec Tel.800-424-9300 [within

continental US]

5626 Commerce Street

Saint Francisville, LA 70775

USA

Phone: 225-635-1700

#### **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
Fragrance Package				0-2
BHT	4-methyl-2,6-di-tert- butylphenol	128-37-0	204-881-4	< 500 ppm

#### **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

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mouth with water. Get medical attention or contact a poison control center for advice

### Section 5: Fire-Fighting Measures

48°C (118°F) (TCC) Flash point Auto-ignition temperature Not determined.

5.1 Suitable extinguishing media

Water fog or spray, Foam, Dry Powder, Carbon Dioxide (CO2).

Extinguishing media which must not be used 5.2 Hazardous

If water must be used, use as a spray only to lower temperature.

FROM FIRE: Smoke, carbon dioxide and carbon monoxide.

Special protective equipment for fire fighters

decomposition products

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

ELIMINATE ALL SOURCES OF IGNITION. Eliminate all sources 6.1 Protective measures

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 oilabsorbing 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.

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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 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

8.2 Appropriate engineering

controls

AIHA WEEL 8-hr TWA (limonene) 30 ppm

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

pH

Not applicable.

Melting point/freezing point

Boiling point (initial)

Flash point

Evaporation rate (BUAC =1)

Not determined.

Not determined.

170°C (338°F)

48°C (118°F) (TCC)

Approximately 4

Flammability (Solid, gas) Not determined. Flammable limits (% by Not determined.

volume in air)

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

Not determined.

octanol/water

Auto-ignition temperature Not determined.

Decomposition temperature Not determined.

Viscosity Not determined.

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### **Section 10: Stability and Reactivity**

10.1 Reactivity Not determined.

10.2 Chemical stability Product is stable and not reactive under conditions of normal

10.3 Hazardous Hazardous polymerization will not occur.

polymerization

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 Incomplete decomposition may produce carbon monoxide. Ultimate decomposition products are carbon dioxide and decomposition products

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	Limonene: LD <sub>50</sub> (rat): > 5000 mg/kg.		
toxicity	Dipentene: LD <sub>50</sub> (rat): > 3500 mg/kg		
11.1 (b) Dermal	Limonene: LD₅o (rabbit): > 5000 mg/kg		
contact	Dipentene: LD <sub>50</sub> (rabbit) > 5000 mg/kg		
11.1 (c) Eye contact	Contact with the undiluted material may cause cause eye irritation.		
11.1 (d) Respiratory or Skin sensitization	Product may contain trace amounts of oxidized material wich are allergenic to sensitive individuals. Avoid repeated or		
or oran constitution	prolonged contact with skin.		
11.1 (e) Germ cell m utagenicity	Not determined for dipentene. Refer to WHO Concise International Chemcial Assessment Document 5 for Limonene. Limonene: mouse lymphoma L5178Y test system, did not induce gene mutations Limonene; AMES Test; Negative		
11.1 (f)	No component of the product is listed by IARC, ACGIH, and		
Carcinogenicity	NTP		
11.1 (g) Reproductive Not determined.			
t o x i c i	<u>t y</u>		
11.1 (h) STOT single Not determined.			
exposure			
11.1 (i) STOT	Not determined.		
	<u>posure</u>		
11.1 (j) Aspiration Hazard	Component categorized as a Cat 1 Aspiration Hazard.		

### **Section 12: Ecological Information**

**Toxicity** Product is a marine pollutant and is very toxic to aquatic

organisms.

Persistence and

92.7% in 21 days per method CEC L33T82.

degradability

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 Legasolv LX311 (Except from HMR as per §173.150 & §171.4)

### Section 15: Regulatory Information

#### **Chemical Inventories Status**

**USA** Compliant Compliant. Canada Not determined **European Community** Australia Not determined Japan Not determined Not determined Korea Not determined **Philippines** Not determined China

**USA Federal and States Information** 

OSHA - Hazardous by definition of 29 CFR 1910.1200

(Flammability)

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### **Section 16: Other Information**

#### Risk phrases

R10 - Flammable

R36/38 - Irritating to eyes and skin

R51/53 - Dangeroous for the environment; Toxic to aquatic organisms, may cause long-term adverse effects o nthe 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 planty

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: 16 June 2016

Supersedes Date: 16 June 2016

Reason for this revision:

16 June 2016 product creation.

References and Sources for data

US EPA ACToR: Aggregated Computational Toxicology Resource

(http://actor.epa.gov/ actor/)

EPA High Production Volume Information System (HPVIS)

(www.epa.gov/hpv/)

NIH TOXNET (http://toxnet.nlm.nih.gov)

WHO Concise International Chemical Assesment Document

(CICAD05.pdf) for Lim onene.

CDC NIOSH - National Institute for Occupational Safety and

Health (www.cdc.gov/niosh)

RTECS - Register of Toxic Effects of Chemical Substances