DenverstTerpenes

Natural L-Limonene

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 05/20/2019 Revision date: 05/20/2019 Version: 1.0

1.1. Identification	
Product form	: Substance
Substance name	: Natural L-Limonene
CAS-No.	: 138-86-3
Product code	: ISO104
1.2. Recommended use and restric	tions on use
No additional information available	
1.3. Supplier	
DTI MEDIA TERPENE ENHANCEMENTS 11546 COLONY ROW BROOMFIELD C DENVERTERPENES.COM 303-625-7531 1.4. Emergency telephone number	O 80021
Emergency number	: CHEMTREC - USA: 800-424-9300 International: +1 703-527-3887 / 1-800-424-9300 CCN 13010
SECTION 2. Hozard/a) identifica	tion
SECTION 2: Hazard(s) identifica	
2.1. Classification of the substance	e or mixture
GHS-US classification	
Flammable liquids Category 3 Skin corrosion/irritation Category 2 Skin sensitization, Category 1 Aspiration hazard Category 1	Flammable liquid and vapour Causes skin irritation May cause an allergic skin reaction May be fatal if swallowed and enters airways
2.2. GHS Label elements, including	precautionary statements
GHS-US labeling	
•	
Hazard pictograms (GHS-US)	HS02 GHS07 GHS08
Hazard pictograms (GHS-US)	_
Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	 Danger Flammable liquid and vapour May be fatal if swallowed and enters airways Causes skin irritation May cause an allergic skin reaction
Hazard pictograms (GHS-US) Signal word (GHS-US)	 Danger Flammable liquid and vapour May be fatal if swallowed and enters airways Causes skin irritation

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

2.3. Other hazards which do not res	If skin irritation or rash occurs: Get Take off contaminated clothing and Wash contaminated clothing before In case of fire: Use media other tha Store in a well-ventilated place. Ke Store locked up. Dispose of contents/container to ha with local, regional, national and/or	I wash it before e reuse. an water to extin ep cool. azardous or spe	reuse. guish. cial waste	collection point, in accordance
No additional information available				
2.4. Unknown acute toxicity (GHS U	S)			
Not applicable				
SECTION 3: Composition/Inform	ation on ingredients			
3.1. Substances				
Name		uct identifier	%	GHS-US classification
LIMONENE (Main constituent)	(CAS-1	No.) 138-86-3	100	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304
Full text of hazard classes and H-statement	s : see section 16			
3.2. Mixtures				
Not applicable				
SECTION 4: First-aid measures				
4.1. Description of first aid measure				
First-aid measures general First-aid measures after inhalation	Call a physician immediately.Remove person to fresh air and ke	en comfortable	for breathir	a
First-aid measures after skin contact	 Rinse skin with water/shower. Rem irritation or rash occurs: Get medic 	nove/Take off im	mediately	-
First-aid measures after eye contact First-aid measures after ingestion	Rinse eyes with water as a precauDo not induce vomiting. Call a physical		ely.	
4.2. Most important symptoms and	effects (acute and delayed)			
Symptoms/effects after skin contact Symptoms/effects after ingestion	: Irritation. May cause an allergic ski : Risk of lung edema.	n reaction.		
4.3. Immediate medical attention an	d special treatment, if necessary			
Treat symptomatically.				
SECTION 5: Fire-fighting measur	es			
5.1. Suitable (and unsuitable) exting	juishing media			
Suitable extinguishing media	: Water spray. Dry powder. Foam. C	arbon dioxide.		
5.2. Specific hazards arising from the				
Fire hazard	: Flammable liquid and vapour.			
Reactivity	: Flammable liquid and vapour.			
5.3. Special protective equipment a Protection during firefighting	nd precautions for fire-fighters : Do not attempt to take action witho	ut quitable pret-		mont Solf contained breathing
Protection during menghung	apparatus. Complete protective clo		ective equip	oment. Sen-contained breathing
SECTION 6: Accidental release n	neasures			
	e equipment and emergency procedures	3		
6.1.1. For non-emergency personnel				
Emergency procedures	: Ventilate spillage area. No open fla and eyes. Avoid breathing dust/fun			noking. Avoid contact with skin
6.1.2. For emergency responders				
Protective equipment	: Do not attempt to take action withor refer to section 8: "Exposure control			oment. For further information
05/20/2019	EN (English US)			2/6

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

6.2. Environmental	precautions
Avoid release to the enviro	nment.
6.3. Methods and m	aterial for containment and cleaning up
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to ot	her sections
For further information refe	er to section 13.
SECTION 7: Handlin	g and storage
7.1. Precautions for	safe handling
Precautions for safe handli	ng : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.
Hygiene measures	: Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for	safe storage, including any incompatibilities
Technical measures	: Ground/bond container and receiving equipment.

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

Storage conditions

No additional information available

8.2. Appropriate engineering controls	
Appropriate engineering controls	: Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment.
8.3. Individual protection measures/Pers	sonal protective equipment
Hand protection:	

: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Liquid	
Color	: COLORLESS TO PALE YELLOW LIQUID	
Odor	: FRESH SWEET ODOR	
Odor threshold	: No data available	
рН	: No data available	
Melting point	: No data available	
Freezing point	: No data available	
05/20/2019	EN (English US)	3/6

Safety Data Sheet

ccording to Federal Register / Vol. 77, No. 58 / Monday,	March 26, 2012 / Rules and Regulations
Boiling point	: No data available
Flash point	: 46 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 0.8423 (0.840 - 0.850)
Solubility	: Insoluble.
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
9.2. Other information	
Refractive index	: 1.473 (1.465 - 1.485)
 10.3. Possibility of hazardous reactions No dangerous reactions known under normal co 10.4. Conditions to avoid Avoid contact with hot surfaces. Heat. No flames 10.5. Incompatible materials No additional information available 10.6. Hazardous decomposition products 	s, no sparks. Eliminate all sources of ignition.
10.6. Hazardous decomposition products	s zardous decomposition products should not be produced.
SECTION 11: Toxicological informat 11.1. Information on toxicological effects	ion
Acute toxicity	: Not classified
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified

Aspiration hazard

Symptoms/effects after skin contact

Symptoms/effects after ingestion

05/20/2019

: Risk of lung edema.

: May be fatal if swallowed and enters airways.

: Irritation. May cause an allergic skin reaction.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 12: Ecological information	
12.1. Toxicity Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	\$
13.1. Disposal methods	
	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
	: Flammable vapors may accumulate in the container.
SECTION 14: Transport information	
UN-No. (IMDG) Proper Shipping Name (IMDG) Class (IMDG) Packing group (IMDG) Limited quantities (IMDG) Air transport Transport document description (IATA) UN-No. (IATA) Proper Shipping Name (IATA) Class (IATA)	 UN 1266 PERFUMERY PRODUCTS, 3, III 1266 PERFUMERY PRODUCTS 3 - Flammable liquids III - substances presenting low danger 5 L UN 1266 Perfumery products, 3, III 1266 Perfumery products 3 - Flammable Liquids III - Minor Danger
SECTION 15: Regulatory information	
15.1. US Federal regulations	
LIMONENE (138-86-3)	
Listed on the United States TSCA (Toxic Substa	nces Control Act) inventory

15.2. International regulations CANADA

LIMONENE (138-86-3) Listed on the Canadian DSL (Domestic Substances List)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

EU-Regulations No additional information available

National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

State or local regulations U.S New Jersey - Right to Know Hazardous Substance List	LIMONENE (138-86-3)	
	State or local regulations	U.S New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

Revision date

: 05/20/2019

SDS US (GHS HazCom 2012) -

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product