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# SAFETY DATA SHEET

In accordance with UN GHS latest edition

Product: Limonene D (Natural) 7293

Version:

#### Section 1. Identification of the substance or the mixture and of the supplier

**1.1 Product Identifier** 

Product identifier: Limonene D (Natural) 7293(Contains:d-Limonene)

Other identifiers: None

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## 1.2 Relevant identified uses of the substance of mixture and uses advised against

- Product uses: Flavours, Fragrances
- **1.3 Details of the supplier of the safety data sheet**

Company name:	Perfumer's Apprentice
Company address:	170 Technology Circle Scotts Valley CA 95066 USA
Contact:	Elisabeth Hanson
E-Mail address:	regulatory@perfumersapprentice.com
Company phone:	(831)316-7137
1.4 Emergency teleph	one number
Emergency phone:	ChemTel:1(800)255-3924, 01(813)248-0585 MIS6760377

## Section 2. Hazards identification

## 2.1 Classification of the substance or mixture

	Flammable Liquid, Hazard Category 3
danger:	Acute Toxicity - Oral Category 5
	Acute Toxicity - Dermal Category 5
	Skin Corrosion / Irritation Category 2
	Sensitization - Skin Category 1
	Aspiration Hazard Category 1
	Hazardous to the Aquatic Environment - Acute Hazard Category 1
	Hazardous to the Aquatic Environment - Long-term Hazard Category 1
	H226, Flammable liquid and vapour.
	H304, May be fatal if swallowed and enters airways.
	H303, May be harmful if swallowed.
	H315, Causes skin irritation.
	H317, May cause an allergic skin reaction.
	H313, May be harmful in contact with skin.
	H410, Very toxic to aquatic life with long lasting effects.
2.2 Label elements	
Signal word:	Danger



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Hazard stater	ments:	<ul> <li>H226, Flammable liquid and vapour.</li> <li>H304, May be fatal if swallowed and enters airways.</li> <li>H303, May be harmful if swallowed.</li> <li>H315, Causes skin irritation.</li> <li>H317, May cause an allergic skin reaction.</li> <li>H313, May be harmful in contact with skin.</li> <li>H410, Very toxic to aquatic life with long lasting effects.</li> </ul>
Precautionar statements:	у	<ul> <li>P210, Keep away from heat, sparks, open flames and hot surfaces No smoking.</li> <li>P233, Keep container tightly closed.</li> <li>P240, Ground/bond container and receiving equipment.</li> <li>P241, Use explosion-proof electrical, ventilating and lighting equipment.</li> <li>P242, Use only non-sparking tools.</li> <li>P243, Take precautionary measures against static discharge.</li> <li>P261, Avoid breathing vapour or dust.</li> <li>P264, Wash hands and other contacted skin thoroughly after handling.</li> <li>P272, Contaminated work clothing should not be allowed out of the workplace.</li> <li>P273, Avoid release to the environment.</li> <li>P280, Wear protective gloves/eye protection/face protection.</li> <li>P301/310, IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.</li> <li>P303/361/353, IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing.</li> <li>Rinse skin with water/shower.</li> <li>P312, Call a POISON CENTRE or doctor/physician if you feel unwell.</li> <li>P331, Do not induce vomiting.</li> <li>P333/313, If skin irritation or rash occurs: Get medical advice/attention.</li> <li>P362, Take off contaminated clothing and wash before reuse.</li> <li>P370/378, In case of fire: Use carbon dioxide, dry chemical, foam for extinction.</li> <li>P391, Collect spillage.</li> <li>P403/235, Store in a well-ventilated place. Keep cool.</li> <li>P405, Store locked up.</li> <li>P501, Dispose of contents/container to approved disposal site, in accordance with local regulations.</li> </ul>
Pictograms:		
2 3 Other haz	varde	

2.3 Other hazards Other hazards:

None



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## Section 3. Composition / information on ingredients

#### 3.2 Mixtures

#### **Contains:**

Name	CAS	%	GHS Classification
d-Limonene	5989-27-5	100.00%	Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1- Aquatic Acute 1-Aquatic Chronic 1;H226-H304-H315- H317-H410

Substances with workplace exposure limits, not listed above:

Not Applicable

## Section 4. First-aid measures

#### 4.1 Description of first aid measures

Inhalation: Remove from exposure site to fresh air, keep at rest, and obtain medical attention.

**Eye exposure:** Flush immediately with water for at least 15 minutes. Contact physician if symptoms persist.

Skin exposure: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

Ingestion: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

## 4.2 Most important symptoms and effects, both acute and delayed

May be fatal if swallowed and enters airways.

May be harmful if swallowed.

Causes skin irritation.

May cause an allergic skin reaction.

May be harmful in contact with skin.

## 4.3 Indication of any immediate medical attention and special treatment needed

None expected, see Section 4.1 for further information.

# Section 5: Firefighting measures

# 5.1 Extinguishing media

Suitable media: Carbon dioxide, Dry chemical, Foam.

## 5.2 Special hazards arising from the substance or mixture

In case of fire, may be liberated: Carbon monoxide, Unidentified organic compounds.

## 5.3 Advice for fire fighters:

In case of insufficient ventilation, wear suitable respiratory equipment.



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## Section 6. Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures:

Avoid inhalation. Avoid contact with skin and eyes. See protective measures under Section 7 and 8.

#### 6.2 Environmental precautions:

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Keep away from drains, surface and ground water, and soil.

#### 6.3 Methods and material for containment and cleaning up:

Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Contain spillage immediately by use of sand or inert powder. Dispose of according to local regulations.

#### 6.4 Reference to other sections:

Also refer to sections 8 and 13.

## Section 7. Handling and storage

#### 7.1 Precautions for safe handling:

Keep away from heat, sparks, open flames and hot surfaces. - No smoking.

#### 7.2 Conditions for safe storage, including any incompatibilities:

Ground/bond container and receiving equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

## 7.3 Specific end use(s):

Flavours, Fragrances: Use in accordance with good manufacturing and industrial hygiene practices.

#### Section 8. Exposure controls/personal protection

#### 8.1 Control parameters

Workplace exposure limits: Not Applicable

8.2 Exposure Controls

Eye / Skin Protection Wear protective gloves/eye protection/face protection

#### **Respiratory Protection**

Under normal conditions of use and where adequate ventilation is available to prevent build up of excessive vapour, this material should not require special engineering controls. However, in conditions of high or prolonged use, or high temperature or other conditions which increase exposure, the following engineering controls can be used to minimise exposure to personnel: a) Increase ventilation of the area with local exhaust ventilation. b) Personnel can use an approved, appropriately fitted respirator with organic vapour cartridge or canisters and particulate filters. c) Use closed systems for transferring and processing this material.

Also refer to Sections 2 and 7.



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## Section 9. Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Appearance:	Not determined
Odour:	Not determined
Odour threshold:	Not determined
pH:	Not determined
Melting point / freezing point:	Not determined
Initial boiling point / range:	Not determined
Flash point:	45 °C
Evaporation rate:	Not determined
Flammability (solid, gas):	Not determined
Upper/lower flammability or explosive limits:	Product does not present an explosion hazard
Vapour pressure:	Not determined
Vapour density:	Not determined
Relative density:	Not determined
Solubility(ies):	Not determined
Partition coefficient: n-octanol/water:	Not determined
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Viscosity:	Not determined
Explosive properties:	Not expected
Oxidising properties:	Not expected
9.2 Other information:	None available

## Section 10. Stability and reactivity

#### 10.1 Reactivity:

Presents no significant reactivity hazard, by itself or in contact with water.

## 10.2 Chemical stability:

Good stability under normal storage conditions.

# 10.3 Possibility of hazardous reactions:

Not expected under normal conditions of use.

## **10.4 Conditions to avoid:**

Avoid extreme heat.

# 10.5 Incompatible materials:

Avoid contact with strong acids, alkalis or oxidising agents.



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10.6 Hazardous decomposition products:

Not expected.

## Section 11. Toxicological information

#### 11.1 Information on toxicological effects

This mixture has not been tested as a whole for health effects. The health effects have been calculated using the methods outlined in UN GHS.

Acute Toxicity:	Acute Toxicity - Oral Category 5
	Acute Toxicity - Dermal Category 5
Acute Toxicity Oral	Not Applicable
Acute Toxicity Dermal	Not Applicable
Acute Toxicity Inhalation	Not Available
Skin corrosion/irritation:	Skin Corrosion / Irritation Category 2
Serious eye damage/irritation:	Based on available data the classification criteria are not met.
Respiratory or skin sensitisation:	Sensitization - Skin Category 1
Germ cell mutagenicity:	Based on available data the classification criteria are not met.
Carcinogenicity:	Based on available data the classification criteria are not met.
Reproductive toxicity:	Based on available data the classification criteria are not met.
STOT-single exposure:	Based on available data the classification criteria are not met.
STOT-repeated exposure:	Based on available data the classification criteria are not met.
Aspiration hazard:	Aspiration Hazard Category 1

## Information about hazardous ingredients in the mixture

Not Applicable

Refer to Sections 2 and 3 for additional information.

# Section 12. Ecological information

#### 12.1 Toxicity:

Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability:	Not available
12.3 Bioaccumulative potential:	Not available
12.4 Mobility in soil:	Not available
12.5 Other adverse effects:	Not available

## Section 13. Disposal considerations

#### 13.1 Waste treatment methods:

Dispose of in accordance with local regulations. Avoid disposing into drainage systems and into the environment.



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Empty containers should be taken to an approved waste handling site for recycling or disposal.

## Section 14. Transport information

	14.1 UN number:	14.2 UN Proper Shipping Name:	14.3 Transport hazard class (es):	Sub Risk:	14.4 Packing Group:
UN Model Regulations	UN2319	TERPENE HYDROCARBONS, N.O.S.	3	-	111
IMDG	UN2319	TERPENE HYDROCARBONS, N.O.S.	3	-	111
ADR,RID,ADN	UN2319	TERPENE HYDROCARBONS, N.O.S.	3	-	
ΙCAO ΤΙ	UN2319	TERPENE HYDROCARBONS, N.O.S.	3	-	

#### 14.5 Environmental hazards:

This is classified as an environmentally hazardous substance under the UN Model Regulations. This is classified as a Marine Pollutant under the IMDG Code.

14.6 Special precautions for user:

## 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

None additional

Not applicable

## Section 15. Regulatory information

None additional

#### Section 16. Other information

 Concentration % Limits:
 EH A1=25.00% EH A2=2.50% EH A3=0.2500000% EH C1=25.00% EH C2=2.50% EH C3=0.2500000% EH C4=25.00% SCI 2=10.00% SCI 3=1.

 Total Fractional Values:
 EH A1=4.00 EH A2=40.00 EH A3=400.00 EH C1=4.00 EH C2=40.00 EH C3=400.00 EH C4=4.00 SCI 2=10.00 SCI 3=100.00 SS 1=100.00 AH 1=10.00

## Key to revisions:

Not applicable

#### Key to abbreviations:

Abbreviation	Meaning
Aquatic Acute 1	Hazardous to the Aquatic Environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the Aquatic Environment - Long-term Hazard Category 1
Asp. Tox 1	Aspiration Hazard Category 1
Flam. Liq. 3	Flammable Liquid, Hazard Category 3



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H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H410	Very toxic to aquatic life with long lasting effects.
P210	Keep away from heat, sparks, open flames and hot surfaces No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical, ventilating and lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing vapour or dust.
P264	Wash hands and other contacted skin thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/eye protection/face protection.
P301/310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P303/361/353	IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P331	Do not induce vomiting.
P333/313	If skin irritation or rash occurs: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.
P370/378	In case of fire: Use carbon dioxide, dry chemical, foam for extinction.
P391	Collect spillage.
P403/235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to approved disposal site, in accordance with local regulations.
Skin Irrit. 2	Skin Corrosion / Irritation Category 2
Skin Sens. 1B	Sensitization - Skin Category 1B

The information in this safety data sheet is to the best of our knowledge true and accurate but all data, instructions, recommendations and/or suggestions are made without guarantee.