

Product: **Verbena**

Print Date: 2024-02-14

Revised Date: 2024-02-14

1. Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Trade Name: Verbena

1.2 Relevant identified product use

Intended use: Compound used in customer substance/mixture/product

1.3 Details of the manufacturer/supplier of the safety data sheet

Manufacturer: Scent Studio
619 Emperor Street SW
Grand Rapids, MI 49504, USA

1.4 Emergency telephone number

(616) 570-0147 Domestic and International use

2. Hazards Identification**2.1 Classification of the substance or mixture**

This mixture has not been tested as a whole. The effects, listed below, are based on evaluation of individual components in accordance with the provisions of the regulation(s) noted below.

Classification according to GHS

Flammable Liquids, Category 4	H227 : Combustible liquid
Acute Toxicity Oral, Category 5	H303 : May be harmful if swallowed
Aspiration Hazard, Category 1	H304 : May be fatal if swallowed and enters airways
Acute Toxicity Dermal, Category 5	H313 : May be harmful in contact with skin
Skin Corrosion/Irritation, Category 2	H315 : Causes skin irritation
Sensitization, Skin, Category 1A	H317 : May cause an allergic skin reaction
Eye Damage/Eye Irritation, Category 1	H318 : Causes serious eye damage
Acute Toxicity Inhalation, Category 5	H333 : May be harmful if inhaled
Aquatic Acute Toxicity, Category 1	H400 : Very Toxic to aquatic life
Aquatic Chronic Toxicity, Category 2	H411 : Toxic to aquatic life with long lasting effects

Classification OSHA (Provisions 1910.1200 of title 29)

Flammable Liquids, Category 4	H227 : Combustible liquid
Aspiration Hazard, Category 1	H304 : May be fatal if swallowed and enters airways
Skin Corrosion/Irritation, Category 2	H315 : Causes skin irritation
Sensitization, Skin, Category 1A	H317 : May cause an allergic skin reaction
Eye Damage/Eye Irritation, Category 1	H318 : Causes serious eye damage
Reproductive Toxicity, Category 2	H361 : Suspected of damaging fertility or the unborn child

Classification Other

Carcinogenicity This mixture does not contain ingredients identified as carcinogens, at 0.1% or greater, by the following: None [X] ACGIH [] IARC [] NTP [] OSHA []

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2.2 Label elements**Labelling (GHS)****Hazard pictograms****Signal Word: Danger****Hazard statements**

H227	Combustible liquid
H303	May be harmful if swallowed
H304	May be fatal if swallowed and enters airways
H313	May be harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H333	May be harmful if inhaled
H361	Suspected of damaging fertility or the unborn child
H400	Very Toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects

Precautionary Statements**Prevention:**

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P235	Keep cool
P264	Wash hands thoroughly after handling
P272	Contaminated work clothing should not be allowed out of the workplace
P273	Avoid release to the environment
P281	Use personal protective equipment as required.

Response:

P301 + P310 + P331	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Do NOT induce vomiting
P302 + P352	IF ON SKIN: Wash with soap and water
P304 + P312	IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes Remove contact lenses if present and easy to do. continue rinsing
P308 + P313	IF exposed or concerned: Get medical advice/attention
P310	Immediately call a POISON CENTER or doctor/physician
P312	Call a POISON CENTER or doctor/physician if you feel unwell
P333 + P313	If skin irritation or a rash occurs: Get medical advice/attention
P362	Take off contaminated clothing and wash before reuse
P363	Wash contaminated clothing before reuse.

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P370 + P378

In case of fire: Use Carbon dioxide (CO₂), Dry chemical, or Foam for extinction. Do not use a direct water jet on burning material.**2.3 Other Hazards**
no data available**3. Composition/Information on Ingredients****3.1 Mixtures**

This product is a complex mixture of ingredients, which contains among others the following substance(s), presenting a health or environmental hazard within the meaning of the UN Globally Harmonized System of Classification and Labeling of Chemicals (GHS):

Name	CAS	%	GHS Classification
Limonene	5989-27-5	20 - 30 %	H226; H304; H315; H317; H400; H412
Hexylene Glycol	107-41-5	10 - 20 %	H315; H319
Hexyl cinnamal	101-86-0	5 - 10 %	H303; H316; H317; H400; H411
Methyldihydrojasmonate	24851-98-7	5 - 10 %	H402
Citral	5392-40-5	5 - 10 %	H313; H315; H317; H319; H401
Geraniol	106-24-1	5 - 10 %	H303; H315; H317; H318; H402
Nerol	106-25-2	2 - 5 %	H303; H315; H317; H319; H401
pinene	80-56-8	1 - 2 %	H226; H302; H304; H315; H317; H400; H410
Citronellol	106-22-9	1 - 2 %	H303; H313; H315; H317; H319; H401
beta Pinene	127-91-3	1 - 2 %	H226; H304; H315; H317; H400; H410
gamma-Terpinene	99-85-4	1 - 2 %	H226; H303; H304; H316; H361
Linalool	78-70-6	0.1 - 1.0 %	H227; H303; H315; H317; H319; H402
Linalyl Acetate	115-95-7	0.1 - 1.0 %	H227; H315; H317; H320; H402
Geranyl Acetate	105-87-3	0.1 - 1.0 %	H315; H317; H401; H412
Citronellal	106-23-0	0.1 - 1.0 %	H227; H303; H313; H315; H317; H319; H401
Beta-Caryophyllene	87-44-5	0.1 - 1.0 %	H304; H317

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:	Remove contaminated clothes. Wash thoroughly with water (and soap). Contact physician if symptoms persist.

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Ingestion: Rinse mouth with water and obtain medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: no data available

Risks: Refer to Section 2.2 "Hazard Statements"

4.3 Indication of any immediate medical attention and special treatment needed Treatment:

None expected, see Section 4.1 for further information

5. Fire-Fighting measures

5.1 Extinguishing media

Suitable: Carbon dioxide, Dry chemical, Foam

Unsuitable Do not use a direct water jet on burning material.

5.2 Special hazards arising from the substance or mixture

During fire fighting: Water may be ineffective

5.3 Advice for firefighters

Further information: In case of insufficient ventilation, wear suitable respiratory equipment.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid inhalation and contact with skin and eyes. A self-contained breathing apparatus is recommended in case of a major spill.

6.2 Environmental precautions

Keep away from drains, soil, and surface and groundwater.

6.3 Methods and materials for containment and cleaning up

Clean up spillage promptly. Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapors. Gross spillages should be contained by use of sand or inert powder and disposed of according to the local regulations.

6.4 Reference to other sections

Not Applicable

7. Handling and Storage

7.1 Precautions for safe handling

Apply according to good manufacturing and industrial hygiene practices with proper ventilation. Do not drink, eat or smoke while handling. Respect good personal hygiene.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry and ventilated area away from heat sources and protected from light in tightly closed original container. Avoid uncoated metal container. Keep air contact to a minimum.

7.3 Specific end uses

No information available

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8. Exposure Controls/Personal Protection**8.1 Control parameters****Exposure Limits:****Component**

		ACGIH TWA ppm	ACGIH STEL ppm	OSHA TWA ppm	OSHA STEL ppm
80-56-8	<i>pinene</i>	20			
127-91-3	<i>beta Pinene</i>	20			

8.2 Exposure controls - Personal protective equipment

Eye protection:	Tightly sealed goggles, face shield, or safety glasses with brow guards and side shields, etc. as may be appropriate for the exposure
Respiratory protection:	Avoid excessive inhalation of concentrated vapors. Apply local ventilation where appropriate.
Skin protection:	Avoid Skin contact. Use chemically resistant gloves as needed.

9. Physical and Chemical Properties**9.1 Information on basic physical and chemical properties**

Appearance:	Liquid
Odor:	Conforms to Standard
Color:	Greenish Yellow (G1) to Pale Yellow (G3)
Viscosity:	Liquid
Freezing Point:	Not determined
Boiling Point:	Not determined
Melting Point:	Not determined
Flashpoint (CCCFP):	61.67 °C
Auto flammability:	Not determined
Explosive Properties:	None Expected
Oxidizing properties:	None Expected
Vapor Pressure (mmHg@20 C):	0.3378
%VOC:	29.90
Specific Gravity @ 25 C:	0.9055
Density (g/mL) @ 25 C:	0.9025
Refractive Index @ 20 C:	1.4705
Soluble in:	Oil

10. Stability and Reactivity

10.1 Reactivity	Presents no significant reactivity hazard, by itself or in contact with water.
10.2 Chemical stability	Stable
10.3 Possibility of hazardous reactions	None known
10.4 Conditions to avoid	None known

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10.5 Incompatible materials

Strong oxidizing agents, strong acids, and alkalis.

10.6 Hazardous decomposition products

Not expected.

11. Toxicological Information

11.1 Toxicological Effects

Acute Toxicity Estimates (ATEs) based on the individual Ingredient Toxicity Data utilizing the "Additivity Formula"

Acute toxicity - Oral - (Rat) mg/kg	(LD50: 4284.2640) May be harmful if swallowed
Acute toxicity - Dermal - (Rabbit) mg/kg	(LD50: 4998.2777) May be harmful in contact with skin
Acute toxicity - Inhalation - (Rat) mg/L/4hr	(LD50: 72.1724) May be harmful if inhaled
Skin corrosion / irritation	Causes skin irritation
Serious eye damage / irritation	Causes serious eye damage
Respiratory sensitization	Not classified - the classification criteria are not met
Skin sensitization	Sensitization - Skin Category 1
Germ cell mutagenicity	Not classified - the classification criteria are not met
Carcinogenicity	Not classified - the classification criteria are not met
Reproductive toxicity	Suspected of damaging fertility or the unborn child
Specific target organ toxicity - single exposure	Not classified - the classification criteria are not met
Specific target organ toxicity - repeated exposure	Not classified - the classification criteria are not met
Aspiration hazard	May be fatal if swallowed and enters airways

12. Ecological Information

12.1 Toxicity

Acute aquatic toxicity	Very Toxic to aquatic life Toxic to aquatic life with long lasting effects
Chronic aquatic toxicity	no data available
Toxicity Data on soil	no data available
Toxicity on other organisms	no data available
12.2 Persistence and degradability	no data available
12.3 Bioaccumulative potential	no data available
12.4 Mobility in soil	no data available
12.5 Other adverse effects	no data available

13. Disposal Conditions

13.1 Waste treatment methods

Dispose of in accordance with local regulations. Avoid disposing into drainage systems and into the environment. Empty containers should be taken to an approved waste handling site for recycling or disposal

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14. Transport Information

Marine Pollutant

Yes. Ingredient of greatest environmental impact :
5989-27-5 : (20 - 30 %) : Limonene

ADR/RID (International Road/Rail)

Environmentally Hazardous Substance, Liquid, n.o.s..	9	III	UN3082
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IATA (Air Cargo)

Environmentally Hazardous Substance, Liquid, n.o.s.	9	III	UN3082
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IMDG (Sea)

Environmentally Hazardous Substance, Liquid, n.o.s..	9	III	UN3082
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15. Regulatory Information

U.S. Federal Regulations

TSCA (Toxic Substance Control Act) All components of the substance/mixture are listed or exempt

40 CFR(EPCRA, SARA, CERCLA and CAA) This product contains NO components of concern.

U.S. State Regulations

California Proposition 65 Warning This product contains the following components: 123-35-3(NF 204-622-5 0.1 - 1.0 % beta-Myrcene (Natural Source)

Canadian Regulations

DSL 100.00% of the components are listed or exempt

16. Other Information

GHS H-Statements referred to under section 3 and not listed in section 2

H226 : Flammable liquid and vapour	H302 : Harmful if swallowed
H316 : Causes mild skin irritation	H317 : May cause an allergic skin reaction
H319 : Causes serious eye irritation	H320 : Causes eye irritation
H401 : Toxic to aquatic life	H402 : Harmful to aquatic life
H410 : Very toxic to aquatic life with long lasting effects	H412 : Harmful to aquatic life with long lasting effects

Total Fractional Values

(TFV) Risk	(TFV) Risk
(69.28) Acute Toxicity Inhalation, Category 5	(60.57) Sensitization, Skin, Category 1
(60.57) Sensitization, Skin, Category 1A	(24.34) Sensitization, Skin, Category 1B
(18.36) Aquatic Chronic Toxicity, Category 3	(11.93) Reproductive Toxicity, Category 2
(7.33) Eye Damage/Eye Irritation, Category 2A	(6.56) Skin Corrosion/Irritation, Category 3
(5.60) Skin Corrosion/Irritation, Category 2	(2.92) Aspiration Hazard, Category 1
(1.74) Aquatic Chronic Toxicity, Category 2	(1.70) Eye Damage/Eye Irritation, Category 1

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(1.54) Aquatic Chronic Toxicity, Category 4

(1.17) Acute Toxicity Oral, Category 5

(1.47) Aquatic Acute Toxicity, Category 1

(1.00) Acute Toxicity Dermal, Category 5

Remarks

This safety data sheet is based on the properties of the material known to Scent Studio at the time the data sheet was issued. The safety data sheet is intended to provide information for a health and safety assessment of the material and the circumstances, under which it is packaged, stored or applied in the workplace. For such a safety assessment Scent Studio holds no responsibility. This document is not intended for quality assurance purposes.