SAFETY DATA SHEET
Fierce® (type)

SECTION 1 — Identification

Product name	Fierce® (type)
Supplier name	Lone Star Candle Supply, Inc.
Recommended use	Compound used in customer substance/mixture/product
Supplier address	5800 Park Vista Circle, Keller, TX 76244
Supplier phone	1-800-929-9425
Emergency phone (24h)	CHEMTREC 1-800-424-9300 / +1 703-741-5970

SECTION 2 — Hazards Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) N° 1272/2008 [CLP/GHS] as amended

Skin Irritation - Cat. 2	H315
Skin Sensitization - Cat. 1	H317
Environmental Hazard (acute) - Cat. 1	H400
Environmental Hazard (chronic) - Cat. 1	H410
Additional information	Full text of listed statements : See section 16

2.2 Label elements

Hazard pictograms:

Signal Word:	Warning
Hazard Statements:	
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H410	Very toxic to aquatic life with long lasting effects.
Precautionary Statements:	
P264	Wash thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P391	Collect spillage.

Supplemental Hazard information (EU):

Contains: Citral,Coumarin,Linalool,Scentenal,Rose Ketone,Hexyl Salicylate,Acetyltetramethyloctaline,Citronellol,Hexylcinnamal,Linalyl Acetate,D-Limonene.

Hazard Inducers:

Ethanone, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)-

2.3 Other hazards

Ecological information:

According to Annex XIII of REACH Regulation, the substance/mixture contains no constituent considered either Persistent, Bioaccumulative and Toxic (PBT), or very Persistent and very Bioaccumulative (vPvB) at a concentration equal to or greater than 0.1%.

The substance/mixture contains no constituent identified as having endocrine disrupting properties according to REACH Article 59(1) or in accordance with the criteria set out in Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1%.

Toxicological information:

The substance/mixture contains no constituent identified as having endocrine disrupting properties according to REACH Article 59(1) or Commission Delegated regulation (EU) 2017/2100 at a concentration equal to or greater than 0.1%.

SECTION 3 — Composition / Information on Ingredients

Contains	GHS Classification
>= 40.0 < 50.0% EU Specific Identifiers: N° EU REACH: 01-2119489989-04 Other Identifiers: Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- N° CAS: 0054464-57-2	Skin Sensitization - Cat. 1B [H317] Skin Irritation - Cat. 2 [H315] Environmental Hazard (chronic) - Cat. 1 [H410]
>= 20.0 < 30.0% EU Specific Identifiers: N° EU REACH: 01-2119976371-33 EC CAS: 0000120-51-4 Benzyl Benzoate N° EC: 204-402-9 N° Index : 607-085-00-9	Acute Toxicity (oral) - Cat. 4 [H302] Environmental Hazard (acute) - Cat. 1 [H400] Environmental Hazard (chronic) - Cat. 2 [H411]
>= 5.0 < 7.5% EU Specific Identifiers: N° EU REACH: 01-2119533092-50 EC CAS: 0165184-98-5 (2e)-2-(Phenylmethylidene)Octanal	Skin Sensitization - Cat. 1B [H317] Environmental Hazard (acute) - Cat. 1 [H400] Environmental Hazard (chronic) - Cat. 2 [H411]
>=2.5 < 5.0% EU Specific Identifiers: N° EU REACH: 01-2119457274-37 EC CAS: 0018479-58-8 7-Octen-2-Ol, 2,6-Dimethyl- N° EC: 242-362-4	Specific Target Organ Toxicity - Single Exposure - Cat. 3 Narcotic Effects [H336] Skin Irritation - Cat. 2 [H315] Eye Irritation - Cat.2 [H319]
>=2.5 < 5.0% EU Specific Identifiers: N° EU REACH: 01-2119976314-33 EC CAS: 0000105-95-3 1,4-Dioxacycloheptadecane-5,17-Dione N° EC: 203-347-8	Environmental Hazard (chronic) - Cat. 3 [H412]
>= 1.0 < 2.5% EU Specific Identifiers: N° EU REACH: 01-2119453995-23 EC CAS: 0000106-22-9 Citronellol N° EC: 203-375-0	Skin Sensitization - Cat. 1B [H317] Skin Irritation - Cat. 2 [H315] Eye Irritation - Cat.2 [H319]
>= 1.0 < 2.5% EU Specific Identifiers: N° EU REACH: 01-2119638275-36 EC CAS: 0006259-76-3 Hexyl Salicylate N° EC: 228-408-6	Reproductive Toxicity - Cat. 2 [H361] Skin Sensitization - Cat. 1 [H317] Environmental Hazard (acute) - Cat. 1 [H400] Environmental Hazard (chronic) - Cat. 1 [H410]
>= 1.0 < 2.5% EU Specific Identifiers: N° EU REACH: 01-2119975588-15 EC CAS: 1471313-03-7 3-Cyclopentene-1-Acetaldehyde, 2,2,3-Trimethyl-, Reaction Products With Me Et Ketone, Hydrogenated	Eye Irritation - Cat.2 [H319] Environmental Hazard (chronic) - Cat. 2 [H411]

Contains	GHS Classification
>= 1.0 < 2.5% EU Specific Identifiers: N° EU REACH: 01-2119454789-19 EC CAS: 0000115-95-7 Linalyl Acetate N° EC: 204-116-4	Skin Sensitization - Cat. 1B [H317] Skin Irritation - Cat. 2 [H315] Eye Irritation - Cat.2 [H319]
>= 1.0 < 2.5% EU Specific Identifiers: N° EU REACH: 01-2119949300-45 EC CAS: 0000091-64-5 2h-1-Benzopyran-2-One N° EC: 202-086-7	Skin Sensitization - Cat. 1B [H317] Acute Toxicity (oral) - Cat. 4 [H302]
>= 0.5 < 1.0% EU Specific Identifiers: EC CAS: 0005989-27-5 D-Limonene N° EC: 227-813-5	Aspiration Hazard - Cat. 1 [H304] Skin Sensitization - Cat. 1B [H317] Skin Irritation - Cat. 2 [H315] Environmental Hazard (acute) - Cat. 1 [H400] Environmental Hazard (chronic) - Cat. 3 [H412] Flammable Liquid - Cat. 3 [H226]
>= 0.1 < 0.5% EU Specific Identifiers: N° EU REACH: 01-2119474016-42 EC CAS: 0000078-70-6 Linalool N° EC: 201-134-4 N° Index : 603-235-00-2	Skin Sensitization - Cat. 1B [H317] Skin Irritation - Cat. 2 [H315] Eye Irritation - Cat.2 [H319]
>= 0.1 < 0.5% EU Specific Identifiers: N° EU REACH: 01-0000017614-70 EC CAS: 0086803-90-9 4,7-Methano-1h-Indene-2-Carboxaldehyde, Octahydro-5-Methoxy- N° EC: 429-860-9 N° Index : 605-034-00-5	Skin Sensitization - Cat. 1B [H317] Environmental Hazard (chronic) - Cat. 2 [H411]
>= 0.1 < 0.5% EU Specific Identifiers: N° EU REACH: 01-2119462829-23 EC CAS: 0005392-40-5 Citral N° EC: 226-394-6 N° Index : 605-019-00-3	Skin Sensitization - Cat. 1 [H317] Skin Irritation - Cat. 2 [H315] Eye Irritation - Cat.2 [H319]
0 < 0.1% EU Specific Identifiers: N° EU REACH: 01-2119535122-53 EC CAS: 0071048-82-3 2-Buten-1-One, 1-[(1r,2s)-2,6,6-Trimethyl-3-Cyclohexen-1-Yl]-, (2e)-Rel- N° EC: 275-156-8	Skin Sensitization - Cat. 1A [H317] Acute Toxicity (oral) - Cat. 4 [H302] Skin Irritation - Cat. 2 [H315] Environmental Hazard (acute) - Cat. 1 [H400] Environmental Hazard (chronic) - Cat. 1 [H410]

SCL/M-factor/ATE:

EC CAS 0000091-64-5	ATE (oral): 500 mg/kg bw
EC CAS 0000120-51-4	ATE (oral): 1160 mg/kg bw
EC CAS 0071048-82-3	ATE (oral): 1400 mg/kg bw

SECTION 4 — First-Aid Measures

4.1 Description of first aid measures

General information:	As in all cases of potential poisoning, Obtain medical advice immediately.
In case of eye contact:	Irrigate copiously with water for at least 10 minutes. Obtain medical advice if any irritation or evidence of tissue damage persists.
In case of inhalation:	Remove the individual to fresh air and keep at rest. Obtain medical advice immediately.

In case of skin contact:	Remove contaminated clothes. Wash skin with large volumes of water. If irritation persists, or any sign of tissue damage is apparent, obtain medical advice immediately.
In case of ingestion:	Rinse mouth with water. Obtain medical advice immediately.

4.2 Most important symptoms and effects, both acute and delayed

No information available on the product itself.

4.3 Indication of immediate medical attention and special treatment needed

None known.

SECTION 5 — Fire-Fighting Measures

5.1 Extinguishing media

In the event of fire, adequate extinguishers should be used. Avoid inhalation of smoke and fumes. In case of insufficient ventilation, wear suitable respiratory equipment.

5.2 Special hazard arising from the substance or mixture

No specific hazard known.

5.3 Advice for fire-fighters

No specific advice.

SECTION 6 — Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:	Adequate protective gloves should be worn when handling spillages. No smoking. Avoid naked flames or other potential sources of ignition (eg. electrical equipment). Avoid skin contamination and inhalation of vapour. Individual washing routines should be followed after any potential contact. Ensure adequate ventilation in working areas following accidental releases.
For emergency personnel:	Apply the same recommendations as section 6.1

6.2 Environmental precautions

Do not discharge directly into drains, air, into soil or into the aquatic environment.

6.3 Methods and material for containment and cleaning up

For containment:	Any absorbent used for cleaning up spillage should be disposed promptly,accordingly to local regulation. Gross spillages should be contained by any means, and disposal of this should be in accordance with Government Regulations.
For cleaning-up:	Spillages should be disposed of in accordance with Governmental Regulations.

SECTION 7 — Handling and Storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes.
Wear adequate protective gloves protection and eye/face protection.
No smoking. Avoid any sources of ignition.
Avoid exposing to high temperature during processing.
Do not ingest or apply to the skin as such. Good personal washing routines should be followed. Maintain adequate local and general ventilation where product is handled.

Protective measures

Keep strict control of dust accumulation to a minimum.Maintain adequate local and general ventilation where product is handled.Avoid any sources of ignition.

Advice on general occupational hygiene

Good personal washing routines should be followed.

7.2 Conditions for safe storage, including any incompatibilities

It is good general practice to store in closed, preferably full, containers away from heat sources, and protected from extremes of temperature. Do not re-use the empty container.
Respect generals rules for compatibility storage.

7.3 Specific end use(s)

Not available at this time.

SECTION 8 — Exposure Controls / Personal Protection

8.1 Control parameters

Contains no substances with occupational exposure limit values

Derived No Effect Level (DNEL)	No data available
Predicted No Effect Concentration (PNEC)	No data available

8.2 Exposure controls

Avoid exposing to high temperature during processing.
Maintain adequate local and general ventilation where product is handled.

Appropriate engineering controls	Maintain adequate local and general ventilation where product is handled and dispensed.
Environmental exposure controls	Not available at this time. Minimize release to the environment.
Personal protection	
Respiratory protection:	Where ventilation (LEV) is inadequate to prevent any inhalation of substances, use adequate respiratory apparatus.
Hand protection:	Use chemical resistant gloves classified under Standard EN 374: Protective gloves against chemicals. Preferred glove barrier materials: Neoprene and Nitrile. When prolonged or frequently repeated contact may occur, a glove with a protection class of 4 or higher (breakthrough time greater than 120 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 1 or higher (breakthrough time greater than 10 minutes according to EN 374) is recommended. Thickness > or = 0,2mm.
NOTICE:	The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.
Eye protection:	Adequate safety glasses should be used.
Skin protection:	Wear protective clothing, overall if necessary to limit the odour contamination of personal clothing. Individual washing routines should be followed after any potential contact.

SECTION 9 — Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical form:	LIQUID
Colour :	COLOURLESS TO PALE YELLOW
Odour :	Characteristic strong odour according to the commercial description of the substance.
Melting point/freezing point (°C):	Not determined
Boiling point or initial boiling point and boiling range (°C):	Not determined
Flammability:	The product is not flammable.
Lower and upper explosion limit:	Not determined

Flash point:	> 94°C
Auto-ignition temperature (°C) :	Not determined
Decomposition temperature :	No decomposition if stored and applied as directed.
pH:	Not determined
Kinematic viscosity:	Not determined
Water solubility (20°C) :	Not applicable, the product is a mixture
Partition coefficient n-octanol/water (log value):	Not applicable, the product is a mixture
Vapour pressure (Pa) :	Not determined
Density and/or relative density:	0.989 - 1.009
Relative vapour density:	Not determined
Particle characteristics:	Not applicable, the product is a liquid

9.2 Other information

9.2.1. Information with regard to physical hazard classes

None

9.2.2. Other safety characteristics

None

SECTION 10 — Stability and Reactivity

10.1 Reactivity

No reaction known with water.

10.2 Chemical stability

Good stability at standard temperature.

10.3 Possibility of hazardous reactions

Not known.

10.4 Conditions to avoid

Avoid temperatures above or at least 5 °C below flash point for any flammable liquids. Do not heat closed containers.
Avoid contact with oxidizing agents.

10.5 Incompatible materials

Not known.

10.6 Hazardous decomposition products

Contact with water or storage under recommended conditions for one year should not produce dangerous decomposition products.

SECTION 11 — Toxicological Information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

This mixture has not been subjected to toxicological testing as an entity. According to available data on the constituents the health classification criteria are met.

(a) acute toxicity	Calculated LD50 Oral: LD50 > 2000 mg/kg bw
(b) skin corrosion/irritation	Skin Irritation - Cat. 2
(c) serious eye damage/irritation	Not applicable
(d) respiratory or skin sensitisation	Skin Sensitization - Cat. 1
(e) germ cell mutagenicity	Not applicable
(f) carcinogenicity	Not applicable

(g) reproductive toxicity	Not applicable
(h) STOT-single exposure	Not applicable
(i) STOT-repeated exposure	Not applicable
(j) aspiration hazard	Not applicable

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

The substance/mixture contains no constituent identified as having endocrine disrupting properties according to REACH Article 59(1) or Commission Delegated regulation (EU) 2017/2100 at a concentration equal to or greater than 0.1%.

11.2.2 Other information

No data available

SECTION 12 — Ecological Information

This mixture has not been subjected to ecotoxicological testing as an entity. According to available data on the constituents the environmental classification criteria are met.

12.1 Toxicity

Environmental Hazard (acute) - Cat. 1
Environmental Hazard (chronic) - Cat. 1

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 Results of PBT and vPvB assessment

According to Annex XIII of REACH Regulation, the substance/mixture contains no constituent considered either Persistent, Bioaccumulative and Toxic (PBT), or very Persistent and very Bioaccumulative (vPvB) at a concentration equal to or greater than 0.1%.

12.6 Endocrine disrupting properties

The substance/mixture contains no constituent considered to have endocrine disrupting properties according to REACH Article 59(1) or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1%.

12.7 Other adverse effects

No data available

SECTION 13 — Disposal Considerations

13.1 Waste treatment methods

Product: Dispose of as special waste in compliance with local and national regulations. Do not dump into any sewers, on the ground, or into any body of water.

Contaminated packaging: for used, contaminated and residual materials additional evaluations may be required.

European waste disposal number: No waste code from the European waste catalog can be assigned to this product, because only the use made by the user allows this attribution. The waste code is established in consultation with waste disposal services.

SECTION 14 — Transport Information

In case of accidental spillage or fire during transport, refer to instructions given under points 5, 6, 7 and 8 above.

UNO

14.1 UN-No:	3082

14.2 Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ACETYLTETRAMETHYLOCTALINE)
14.3 Class:	9
14.4 Packing Group:	III
14.5 Environmental hazards:	Yes
Land transport (ADR/RID)	
14.1 UN-No:	3082
14.2 Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ACETYLTETRAMETHYLOCTALINE)
14.3 Class:	9
14.4 Packing Group:	III
14.5 Environmental hazards:	Yes
14.6 Special precautions for user:	Refer to section 7
14.7 Maritime transport in bulk according to IMO	Not applicable
instruments:	
Sea transport (IMDG-Code)	
14.1 UN-No:	3082
14.2 Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ACETYLTETRAMETHYLOCTALINE)
14.3 Class:	9
14.4 Packing Group:	III
14.5 Environmental hazards:	Yes
Marine pollutant:	Yes
14.6 Special precautions for user:	Refer to section 7
14.7 Maritime transport in bulk according to IMO	Not applicable
instruments:	
Air transport (ICAO-IATA)	
14.1 UN-No:	3082
14.2 Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ACETYLTETRAMETHYLOCTALINE)
14.3 Class:	9
14.4 Packing Group:	III
14.5 Environmental hazards:	Yes
14.6 Special precautions for user:	Refer to section 7
14.7 Maritime transport in bulk according to IMO	Not applicable
instruments:	

SECTION 15 — Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

European Regulations

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Substances of very high concern (SVHC):	None
Authorisations:	None
Restrictions of use:	None

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out.

SECTION 16 — Other Information

Revisions

March-2025	Version 14.0 - Updates to sections 1, 2, 3, 9, 14, 15, 16
November-2025	Version 14.1 - Updates to sections 15, 16

Key literature references

RIFM database
REACH
Supplier information

Full text of phrases used under section 2

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H410	Very toxic to aquatic life with long lasting effects.
P264	Wash thoroughly after handling.
P273	Avoid release to the environment.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P391	Collect spillage.
P362	Take off contaminated clothing and wash before reuse.
P363	Wash contaminated clothing before reuse.

Full text of phrases used under section 3

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Disclaimer: The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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