Vickers Laboratories Ltd - Safety Data Sheet

0080

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 1.1 Revision date: 16 April 2021 Date printed: 12 August 2023

Section 1. Identification

1.1 Product Identifier 0080

Product Name LIMONENE

CAS Number 138-86-3

REACH Registration No A registration number is not available as the substance or its uses are exempt, the

annual tonnage does not require a registration or the registration is envisaged for a

later date.

Molecular Formula C₁₀H₁₀ = 136.23

1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

1.3 Supplier Vickers Laboratories Ltd



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hr) 11

(Have this document to hand)

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Flammable liquid, category 3 H226: Flammable liquid and vapour. Skin corrosion/irritation, category 2 H315: Causes skin irritation.

Skin sensitization, category 1 H317: May cause an allergic skin reaction.

Hazard to aquatic environment, category 1 H400: Very toxic to aquatic life.

Hazard to aquatic environment, category 1 H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Warning

Hazard Pictograms







Hazard Statements Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Very toxic to aquatic

life with long lasting effects.

Precautionary Statements Wear protective gloves / protective clothing / eye protection / face protection. Wear protective gloves / protective

clothing / eye protection. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical

advice/attention. Take off contaminated clothing and wash before reuse.

Section 3. Composition

3.1 Substances

| Component | CAS No. | EEC No. | REACH No. | Conc w/w | CLP Classification (1272/2008/CE) |
|-----------|----------|-----------|-----------|----------|---|
| Limonene | 138-86-3 | 205-341-0 | | 98% | Flam. Liq. 3,Skin Irrit. 2,Skin Sens. 1,Aquatic Acute |
| | | | | | 1, Aquatic Chronic 1 |

Section 4. First Aid

4.1 Description of first aid measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open.

Skin Thoroughly wash off skin with soap and water. Seek medical attention if irritation persists.

Inhalation Remove from exposure. If breathing stops or shows signs of failing, apply artificial resuscitation.

Ingestion Do not induce vomiting. Wash out the patients mouth thoroughly with water.

Personal protection for first Wear protective gloves / eye protection.

aiders

4.2 Most important symptoms and effects, both acute & delayed.

No further relevant information available.

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

No further relevant information available.

Section 5. Fire Fighting

5.1 Extinguishing media

Extinguishing Media Water spray, alcohol resistant foam, dry powder or carbon dioxide. Use water spray to keep fire exposed

containers cool.

Unsuitable Media Nothing specified.

5.2 Special hazards arising from the substance or mixture

Hazards Combustible: so avoid sources of ignition. Vapour-air mixtures are explosive. Vapours may flow along surfaces

to distant ignition sources and flash back.

5.3 Advice for firefighters

Advice for firefighters Consider all other materials in the vicinity.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Eliminate all sources of ignition and use ventilation to keep gas concentration below the explosive mixture range.

Beware of accumulation of vapour which is heavier than air.

6.2 Environmental precautions

Environmental Keep material out of sewers, storm drains, surface waters and soil.

6.3 Methods and material for containment and cleaning up

Major Spillage Contain and absorb on inert material. Transfer absorbent to container for removal. Wash area down with copious

amounts of water.

Minor Spillage Contain and absorb on inert material. Transfer absorbent to container for removal. Wash area down with copious

amounts of water.

6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

Section 7. Storage & Handling

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath vapours. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains vapour concentrations to a minimum.

7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage . Keep containers closed when not in use.

7.3 Specific end use(s)

See section 1.2.

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

| ſ | Component | CAS No | Concentration | Workplace Exposure Limits | | | | |
|---|-----------|----------|---------------|---------------------------|---|--------------------------|---|--|
| | | | | Long Term (8hr TWA) | | Short Term 15min period) | | |
| | Limonene | 138-86-3 | 98% | - | - | - | - | |

Exposure data source(s) No occupational exposure data currently available.

8.2 Exposure controls

Hand Protection Wear gloves.

Eye Protection Use safety glasses with side shields.

Skin Protection Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.

Special Hazards No special precautions required.

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance Clear colourless to pale brown liquid.

Odour Characteristic.
pH Not applicable
Boiling Point 176°C Approx.

Melting Point -89°C

Flash Point 43°C (Closed cup)

Upper Flammable Limit 6.1% Lower Flammable Limit 0.7%

Auto Ignition Not applicable

Explosive Properties No. Oxidising Properties No.

Vapour Pressure Not applicable Relative Density 0.8600

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Water Solubility Insoluble in water.

9.2 Other information

No data available.

Section 10. Stability & Reactivity

10.1 Reactivity No data available.

10.2 Chemical Stability Stable under normal conditions

10.3 Possibility of hazardous

reactions

No data available.

10.4 Conditions to Avoid Hot surfaces, naked flames or other sources of ignition.

10.5 Incompatable Materials Strong oxidising agents.

10.6 Hazardous Decomposition Not determined.

Products

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes Both the vapour and liquid may, be irritating to the eyes.

Skin Contact with the liquid will be irritating to the skin. May cause skin sensitisation.

LD50 Skin Not available

Ingestion May be harmful by ingestion.

LD50 Oral 5300mg/kg Rat

Inhalation Presents no significant health hazard by inhalation.

LD50 Inhalation Not available TCLo Not available

Carcinogenicity Not considered to be a carcinogen.

Mutagenicity Not considered to be a mutagen.

Reproductive Effects None identified.

Section 12. Ecological

12.1 Toxicity Very toxic for fish and other aquatic organisms.

LC50 Algal Not available

LC50 Crustacea 17mg/kg Daphnia (48 hours)

LC50 Fish 80mg/kg Rainbow Trout (96 hours)

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 & vPvB Assessment not required. assessment

12.6 Other adverse effects None known at present.

Section 13. Disposal Considerations

13.1 Waste treatment methods

Disposal Methods Burn in a chemical incinerator equipped with afterburners and scrubbers. Exert extra care in igniting as this

material is highly flammable.

Contaminated Packaging Wash out containers with water. Use a licensed waste disposer.

Section 14. Transport Information

14.1 UN Number 205214.2 Proper Shipping Name Dipentene

14.3 Transport classes

UN classification 3
Subsidiary hazard(s) None
Transport category 3
ADR Hazard ID 30
Tunnel Restriction Code D/E
Packing Group III

14.4 Packing Group III

14.6 Special precautions for

14.5 Environment hazards See section 12.

user

14.7 Transport in bulk Not transported in bulk.



Section 15. Regulatory Information

15.1 Safety, health and environment regulations specific for subtance/mixture.

Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

No special precautions required.

Classification Flammable liquid, category 3; Skin corrosion/irritation, category 2; Skin sensitization, category 1; Hazard to aquatic

environment, category 1; Hazard to aquatic environment, category 1

Signal word Warning

Hazard Pictograms







Hazard Statements H226, H315, H317, H410

Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Very toxic to aquatic

life with long lasting effects.

Precautionary Statements P280, P280, P302+P352, P332+P313, P362

Wear protective gloves / protective clothing / eye protection / face protection. Wear protective gloves / protective clothing / eye protection. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical

advice/attention. Take off contaminated clothing and wash before reuse.

15.2 Chemical safety assessment

Assessment not required.

Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

Revision number: 1.1 (Supercedes revision 1.0)

Revision date: 16 April 2021

Reviewed by chemist: 16 April 2021

Printed date: 12 August 2023

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