

Product code **JHR0001**
Product name **JACK HERER TYPE NAT.**
Issue date **08 Jan 2020** **Revision Date 09 Jan 2020** **Version 1**

1. Identification of the Substance/Preparation and of the Company/Undertaking

Product identifier

Product name JACK HERER TYPE NAT.

Other means of identification

Product code JHR0001
UN/ID no 1197
Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Industry Use
Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Address
TERPENEWAREHOUSE
3100 East Cedar St. Suite 16
Ontario, CA 91761
info@terpenewarehouse.com
phone: +1 760-205-5222

Emergency telephone number

Company Phone Number Chemtrec 1-800-424-9300 Use CHEMTREC instead of Emergency Phone Number
Emergency telephone Contract# CCN17256

2. Hazards Identification

2.1 Classification of the substance or mixture

- Acute toxicity, dermal (chapter 3.1), Cat. 5
- Acute toxicity, oral (chapter 3.1), Cat. 4
- Aspiration hazard (chapter 3.10), Cat. 1
- Flammable liquids (chapter 2.6), Cat. 3
- Hazardous to the aquatic environment - acute hazard (chapter 4.1), Cat. 1
- Hazardous to the aquatic environment - long-term hazard (chapter 4.1), Cat. 1
- Sensitization, skin (chapter 3.4), Cat. 1
- Skin corrosion/irritation (chapter 3.2), Cat. 2
- Eye damage/irritation (chapter 3.3), Cat. 2A

2.2 GHS label elements, including precautionary statements

Pictogram



Signal word **Danger**

Hazard statement(s)

| | |
|-----------|--|
| H226 | Flammable liquid and vapor |
| H303 | May be harmful if swallowed |
| H303+H313 | May be harmful if swallowed or in contact with skin |
| 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 |
| H319 | Causes serious eye irritation |
| H400 | Very toxic to aquatic life |
| H410 | Very toxic to aquatic life with long lasting effects |

Precautionary statement(s)

| | |
|----------------|---|
| P210 | Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. |
| P233 | Keep container tightly closed. |
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P240 | Ground/bond container and receiving equipment. |
| P362 | Take off contaminated clothing. |
| P241 | Use explosion-proof electrical/ventilating/lighting/.../equipment. |
| P242 | Use only non-sparking tools. |
| P243 | Take precautionary measures against static discharge. |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P264 | Wash ... 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/protective clothing/eye protection/face protection. |
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER/doctor/... |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| P312 | Call a POISON CENTER/doctor/... if you feel unwell. |
| P321 | Specific treatment (see ... on this label). |
| P331 | Do NOT induce vomiting. Rinse mouth |
| P332+P313 | If skin irritation occurs: Get medical advice/attention. |
| P362+P364 | Take off contaminated clothing and wash it before reuse. |
| P370+P378 | In case of fire: Use CO ₂ , dry chemical or foam to extinguish. |
| P391 | Collect spillage. |
| P403+P235 | Store in a well ventilated place. Keep cool. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container to an approved waste disposal plant |
| P302+P352 | IF ON SKIN: Wash with plenty of water/... |
| P333+P313 | If skin irritation or a rash occurs: Get medical advice/attention. |

3. Composition / information on ingredients

3.1 Ingredients

| Name | CAS-Number | Percentage |
|--------------------|------------|------------|
| Alpha-Bisabolol | 23089-26-1 | < 5 % |
| Alpha-Cedrene | 469-61-4 | < 5 % |
| Alpha-Humulene | 6753-98-6 | < 5 % |
| Alpha-Phellandrene | 99-83-2 | < 5 % |
| Alpha-Pinene | 80-56-8 | < 5 % |
| Alpha-Terpinene | 99-86-5 | < 5 % |
| Alpha-Terpineol | 98-55-5 | < 5 % |
| Benzoin | 119-53-9 | < 3 % |

| | | |
|-----------------------|-----------|-----------|
| Beta-Caryophyllene | 87-44-5 | 20 - 25 % |
| Beta-Pinene | 127-91-3 | 5 - 10 % |
| Camphene | 79-92-5 | < 5 % |
| Camphor | 76-22-2 | < 5 % |
| Cis-Ocimene | 3338-55-4 | < 5 % |
| Citral Diethyl Acetal | 7492-66-2 | < 3 % |
| Citronellol | 106-22-9 | < 3 % |
| Delta-3-Carene | 498-15-7 | < 3 % |
| D-Limonene | 5989-27-5 | < 5 % |
| Fenchol | 1632-73-1 | < 5 % |
| Geraniol | 106-24-1 | < 5 % |
| Isoborneol | 124-76-5 | < 5 % |
| Linalool | 78-70-6 | < 5 % |
| L-Menthol | 2216-51-5 | < 5 % |
| Myrcene | 123-35-3 | 5 - 10 % |
| Nerol | 106-25-2 | < 5 % |
| Sabinene | 3387-41-5 | < 5 % |
| Terpinolene | 586-62-9 | 35 - 40 % |
| Trans-Ocimene | 3779-61-1 | < 5 % |
| Valencene | 4630-07-3 | < 5 % |

3.2 Mixtures

Hazardous components

1. D-Limonene

EC no. 227-813-5

CAS no. 5989-27-5

- Acute toxicity, dermal (chapter 3.1), Cat. 5
- Acute toxicity, oral (chapter 3.1), Cat. 5
- Aspiration hazard (chapter 3.10), Cat. 1
- Flammable liquids (chapter 2.6), Cat. 3
- Hazardous to the aquatic environment - acute hazard (chapter 4.1), Cat. 1
- Hazardous to the aquatic environment - long-term hazard (chapter 4.1), Cat. 1
- Sensitization, skin (chapter 3.4), Cat. 1
- Skin corrosion/irritation (chapter 3.2), Cat. 2

| | |
|-----------|--|
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| H317 | May cause an allergic skin reaction |
| H400 | Very toxic to aquatic life |
| H410 | Very toxic to aquatic life with long lasting effects |

2. Beta Caryophyllene

CAS no. 87-44-5

3. Myrcene

CAS no. 123-35-3

- Aspiration hazard (chapter 3.10), Cat. 1
- Eye damage/irritation (chapter 3.3), Cat. 2A
- Flammable liquids (chapter 2.6), Cat. 3

- Skin corrosion/irritation (chapter 3.2), Cat. 2

| | |
|------|--|
| H226 | Flammable liquid and vapor |
| H226 | Flammable liquid and vapor |
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| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |

4. First Aid Measures

4.1 Description of first-aid measures

| | |
|--|---|
| General advice | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. |
| If inhaled | If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or persist. |
| In case of skin contact | Take off immediately all contaminated clothing. Get medical attention if irritation develops and persists. Wash skin thoroughly with soap and water for several minutes. |
| In case of eye contact | Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists. Promptly wash eyes with plenty of water while lifting the eyelids. |
| If swallowed | Call a physician or poison control center immediately. If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. |
| Personal protective equipment for first-aid responders | No data available. |

4.2 Most important symptoms/effects, acute and delayed

No data available.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

No data available

5. Fire-Fighting Measures

5.1 Suitable extinguishing media

Water spray, fog, CO₂, dry chemical, or alcohol resistant foam.

5.2 Specific hazards arising from the chemical

Limonene: Static charges generated by emptying package in or near flammable vapor may cause flash fire. Fire may produce irritating, corrosive and / or toxic gases.

Beta Caryophyllene: Carbon oxides.

5.3 Special protective actions for fire-fighters

In case of fire and / or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage. Ventilate closed spaces before entering them. Keep runoff water out of sewers and water sources. Dike for water control.

Further information

No data available.

6. Accidental release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Eliminate all sources of ignition. Avoid contact with skin or inhalation of spillage, dust or vapor.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not contaminate water. Retain and dispose of contaminated wash water. Avoid release to the environment. Contact local authorities in case of spillage to drain / aquatic environment.

6.3 Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.
The product is immiscible with water and will spread on the water surface.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Prevent product from entering drains. Do not allow material to contaminate ground water system. Absorb in vermiculite, dry sand or earth and place into containers.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste. Collect and dispose of spillage as indicated in section 12 of the SDS

7. Handling and storage

7.1 Precautions for safe handling

Do not handle or store near an open flame, heat or other sources of ignition. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area.

Specific end use(s)

No data available.

8. Exposure controls / personal protection

8.1 Appropriate engineering controls

Engineering controls Showers
 Eyewash stations
 Ventilation systems.

8.2 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Wear safety glasses with side shields (or goggles). Avoid contact with eyes.

Skin and body protection

Avoid contact with skin. Wear protective gloves and protective clothing.

Respiratory protection

If exposure limits are exceeded or irritation is experienced. NIOSH/MSHA approved respiratory protection should be worn.

Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. Ensure adequate ventilation especially in confined areas.

Thermal hazards

No data available.

Environmental exposure controls

No data available.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. Do not eat drink or smoke when using this product.

Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Regular cleaning of equipment, work area and clothing is recommended. Avoid breathing (dust, vapor, mist, gas).

9. Physical and chemical properties**Information on basic physical and chemical properties**

| | |
|---|----------------------------|
| Appearance/form (physical state, color, etc.) | Clear, light yellow liquid |
| Odor | Characteristic |
| Odor threshold | No data available. |
| pH | No data available. |
| Melting point/freezing point | No data available. |
| Initial boiling point and boiling range | No data available. |
| Flash point | No data available. |
| Evaporation rate | No data available. |
| Flammability (solid, gas) | No data available. |
| Upper/lower flammability limits | No data available. |
| Upper/lower explosive limits | No data available. |
| Vapor pressure | No data available. |
| Vapor density | No data available. |
| Relative density | No data available. |
| Solubility(ies) | No data available. |
| Partition coefficient: n-octanol/water | No data available. |
| Auto-ignition temperature | No data available. |
| Decomposition temperature | No data available. |
| Viscosity | No data available. |
| Explosive properties | No data available. |
| Oxidizing properties | No data available. |

Other safety information

No data available.

10. Stability and reactivity**10.1 Reactivity**

The product is stable and non-reactive under normal conditions of use, storage and transport.

10.2 Chemical stability

Material is stable under normal conditions.

10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials. Strong oxidizing agents.

10.5 Incompatible materials

Limonene: Strong oxidizing agents.

Myrcene: Strong oxidizing agents. Heat, flames and sparks.

10.6 Hazardous decomposition products

Limonene: No hazardous decomposition products if stored and handled as indicated.

Beta Caryophyllene: No data available.

11. Toxicological information

Information on toxicological effects

Acute toxicity

Limonene: Maybe fatal if swallowed and enters airways. May be harmful in contact with skin. May cause an allergic skin reaction.

Beta Caryophyllene: No data available.

Skin corrosion/irritation

Limonene: Causes skin irritation.

Beta Caryophyllene: No data available.

Serious eye damage/irritation

Limonene: Direct contact with eyes may cause temporary irritation.
Eyes - rabbit. Result: No eye irritation.
(OECD Test Guideline 405)

Beta Caryophyllene: No data available.

Respiratory or skin sensitization

Limonene: May cause an allergic skin reaction.
Mouse. Result: May cause sensitisation by skin contact.
(OECD Test Guideline 429)

Beta Caryophyllene: No data available.

Germ cell mutagenicity

Limonene: Mouse
Lymphocyte

Result: Negative

Rat - Male

Result: Negative

Beta Caryophyllene: No data available.

Carcinogenicity

Limonene: IARC Monographs: Overall Evaluation of Carcinogenicity - CARVENE (CAS 5989-27-5) 3
Not

classifiable as to carcinogenicity to humans.

OSHA: Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed.

Beta Caryophyllene: IARC: No component of this product present at levels greater than or equal to 0.1% is

identified as probably, possibly or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probably,

possibly or confirmed human carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as probably, possibly

or confirmed human carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as probably,

possibly or confirmed human carcinogen by OSHA.

Myrcene: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable,

possible or confirmed human carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as probable,

possible or confirmed human carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as probable,

possible or confirmed human carcinogen by OSHA.

Reproductive toxicity

Limonene: This product is not expected to cause reproductive or developmental effects.

Beta Caryophyllene: No data available.

Summary of evaluation of the CMR properties

Limonene: No data available.

STOT-single exposure

Limonene: Not classified.

Beta Caryophyllene: No data available.

STOT-repeated exposure

Limonene: Repeated dose toxicity - mouse - male and female - No observed adverse effect level - 1,650 mg/kg -

Lowest observed adverse effect level - 3,300 mg/kg.

Beta Caryophyllene: No data available.

Aspiration hazard

Limonene: No data available.

12. Ecological Information

Toxicity

Limonene: Very toxic to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

Beta Caryophyllene: No data available.

Persistence and degradability

Limonene: Biodegradability: Result: 71% - Readily biodegradable. (OECD Test Guideline 301B)

Beta Caryophyllene: No data available.

Bioaccumulative potential

Limonene: No data available.

Mobility in soil

Limonene: No data available.

Results of PBT and vPvB assessment

Limonene: No data available.

Other adverse effects

Limonene: EC50 Water Flea (*Daphnia pulex*) 69.6 mg/l, 48 hours

LC50 Fathead minnow (*Pimephales promelas*) 0.619 - 0.796 mg/l, 96 hours

LC50 Rainbow trout, donaldson trout (*Oncorhynchus mykiss*) 35 mg/l, 4 days

EC50 Activated sludge 3.94 mg/l

Beta Caryophyllene: No data available.

13. Disposal Considerations

Disposal of the product

Do not discharge into drains, water courses or onto the ground. Do not allow this material to drain into sewers /water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents / container in accordance with local / regional / national / international regulations.

Disposal of contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Waste treatment

Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see disposal instructions).

Sewage disposal

No data available.

Other disposal recommendations

Dispose of in accordance with all applicable regulations.

14. Transport Information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15. Regulatory Information

15.1 Safety, health and environmental regulations specific for the product in question

CAA Section 112 HAPs List

Not regulated.

CAA Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

New Jersey Right to Know Components

Chemical Name: Caryophyllene

CAS Number: 87-44-5. Chemical Name: 7-Methyl-3-methyleneocta-1,6-diene,

CAS Number: 123-35-3

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Pennsylvania Right to Know Components

Chemical Name: Caryophyllene
CAS Number: 87-44-5. Chemical Name: 7-Methyl-3-methyleneocta-1,6-diene,
CAS Number: 123-35-3

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 302 Extremely Hazardous Substance

Not listed.

SARA 304 Emergency Release Notification

Not regulated.

SARA 311 / 312

No SARA hazards.

SARA 311 / 312 Hazardous Chemical

Yes

SARA 311 / 312 Hazards

Fire hazard, acute health hazard

SARA 313 (TRI Reporting)

Not regulated.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III,

Section 313.

SARA Hazard Categories

Immediate Hazard - Yes

Delayed Hazard - No

Fire Hazard - Yes

Pressure Hazard - No

Reactivity Hazard - No

16. Other Information

Issue date 08 Jan 2020

Revision Date 09 Jan 2020

Revision note

No information available

Disclaimer

The information provided in this 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. Classification and labelling according to the IFRA/IOFI Labeling Manual 2017.

End of Safety Data Sheet