

Material Safety Data Sheet

Jack Herer

Revision Date: 01/15/2020



1. Identification

Product Identifiers:

Jack Herer
Trade Secret, Proprietary Botanical Blend
CAS No. 6753-98-6; 5989-54-8; 8008-26-2.

Recommended Use:

Concentrated aromatic and flavor ingredients which may be used in flavor and fragrance compounds according to legal and IFRA or FEMA GRAS/FDA guidelines.

Restrictions on Use:

This product is intended for use only by adults 21 or older. For lawful use only. This product is concentrated and should not be used undiluted. Not for use with tobacco or nicotine. Avoid contact with skin, eyes, and clothes. Keep out of reach of children and pets. Consumers should determine and conduct their own safety standards and testing. Do not use this product if you are pregnant or nursing. Should you experience any adverse health effects discontinue use of this product and consult your doctor immediately. This product is not designed to treat or prevent any disease or ailment. This product has not been evaluated for safe use in e-cigarettes or any vaping application where the product is vaporized and inhaled.

Company Information:

Mr.Extractor
8877 SW Center St.
Tigard, OR 97223 USA
(805) 874-2830
www.MrExtractor.com

Emergency Contact:

CHEMTREC (USA:)
CHEMTREC (INTERNATIONAL):

800-424-9300
1+ 703-527-3887

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2. Hazard Information

Hazard Class

Physical Hazards:

Hazard Type

Flammable Liquids

Category

Category 3

Health Hazards:

Acute Toxicity, Oral
Skin Corrosion/Irritation
Serious Eye Damage/Irritation
Sensitization, Skin
Aspiration

Category 5
Category 2
Category 2A
Category 1
Category 1

Environmental Hazards:

Aquatic Environment, Acute
Aquatic Environment, Long Term

Category 1
Category 1

GHS Label Elements:



Signal Word:

Danger

Hazard Statement:

Flammable liquid and vapor. May be harmful if swallowed. May be fatal if swallowed and enters the airways. Causes skin irritation. Causes skin and eye irritation. May cause an allergic skin reaction. Causes serious eye irritation. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Precautionary Statement:

Prevention:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No Smoking. Keep the container tightly closed. Ground and bond container and receiving

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equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid breathing mist or vapor. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Response:

IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. If ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER/doctor if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use appropriate media to extinguish. Collect spillage.

Storage:

Store in a well-ventilated place. Keep cool. Store locked up.

Disposal:

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not Otherwise Classified (HNOC):

None known.

Supplemental Information:

100% of the mixture consists of component(s) of unknown acute inhalation toxicity.

3. Composition / Information on Ingredients

| <u>Chemical Name:</u> | <u>Batch No.</u> | <u>CAS No.</u> |
|-----------------------|------------------|----------------|
| Humulene | A0918J | 6753-98-6 |

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| | | |
|-----------------|--------|-----------|
| L-Limonene | L-4700 | 5989-54-8 |
| Linalool | 18921A | 78-70-6 |
| Bisabolol | 7088IK | 515-69-5 |
| B-Caryophyllene | 100484 | 80-56-8 |

***This product may contain other natural and artificial ingredients.**

****Specific chemical identities and/or its exact percentages in use have been withheld as a trade secret.**

4. First Aid Measures

Inhalation:

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.

Skin:

If contact is made with the skin immediately take off all contaminated clothing. Wash skin thoroughly with soap and water for several minutes. Get medical attention if irritation develops and persists.

Eye Contact:

Remove contact lenses if present and easy to do. Promptly wash eyes with plenty of water while lifting the eyelids. Get medical attention if irritation develops or persists.

Ingestion:

Call a physician or poison control immediately. If swallowed, rinse your 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.

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Most Important Symptoms / Effects, Acute and Delayed:

Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

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.

5. Fire Fighting Measures

Suitable Extinguishing Media:

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

Unsuitable Extinguishing Media:

Do not use a solid water stream as it may scatter and spread fire.

Specific Hazards Arising From the Chemical:

Fire may produce irritating, corrosive, and/or toxic gases.

Special Protective Equipment And Precautions for Firefighters:

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.

Firefighting Equipment / Instructions:

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

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Specific Methods:

Use water spray to cool unopened containers.

General Fire Hazards:

Static charges generated by emptying package in or near flammable vapor may cause flash fire.

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

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

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 products from entering drains. Absorb in vermiculite, dry sand, or earth and place it 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 it's container must be disposed of as hazardous waste. Collect and dispose of spillage as indicated in section 13 of the SDS.

Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid release to the environment.

Retain and dispose of contaminated wash water. Contact

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local authorities in case of spillage to drain/aquatic environment.

7. Handling and Storage

Precautions for Safe Handling:

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

Conditions for Safe Storage, Including any Incompatibilities:

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

8. Exposure Control / Personal Protection

Occupational Exposure Limits & US. ACGIH Threshold Limit Values:

Material:

Specific chemical identities and/or exact percentage (concentration) of composition has been withheld as a trade secret.

Type:

TWA

Value:

20 ppm

Biological Limit Values: Appropriate Engineering Controls:

No biological exposure limits noted for the ingredient(s). Use explosion proof ventilation equipment to stay below exposure limits. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should

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be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Adequate ventilation should be provided so that exposure limits are not exceeded.

Individual Protection Measures, Such as Personal Protective Equipment:

Eye / Face protection wear safety glasses with side shields (or goggles). Face shield is recommended.

Skin Protection / Hand Protection:

Chemical resistant gloves.

Other:

Use of an impervious apron is recommended.

Respiratory Protection:

Respiratory protection not required. If ventilation is insufficient, suitable respiratory protection must be provided.

Thermal Hazards:

Wear appropriate thermal protective clothing, when necessary.

General Hygiene Considerations:

When using it, do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and Chemical Properties

Appearance:

Liquid

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| Physical State: | Liquid form |
| Liquid Color: | Colorless to Pale Yellow |
| Odor: | Earth and Floral |
| Odor Threshold: | N/A |
| pH: | N/A |
| Melting Point/Freezing Point: | -80.5°F (-62.5°C) |
| Initial Boiling Point and Boiling Range: | 312.8°F (156°C) 101.325 kPa |
| Flash Point: | 90.0°F (32.2°C) |
| Closed Cup Evaporation Rate: | N/A |
| Flammability (solid, gas): Upper / Lower Flammability | N/A |
| Explosion Limits: | N/A |
| Vapor Pressure: | 22 - 24 mm Hg at 25°C |
| Vapor Density: | 4.7 |
| Relative Density: | N/A |
| Solubility (water): | Insoluble Partition |
| Coefficient (n-octanol/water): | 4.83 |
| Auto Ignition Temperature: | 491°F (255°C) |
| Decomposition Temperature: | N/A |
| Viscosity: | N/A |
| Other Information: | Density 0.86 g/cm ³ estimated at 20°C |
| Explosive Properties: | Not explosive |
| Flammability Class: | Flammable |
| IC estimated Molecular Formula: | Formula 32 |
| Molecular Weight: | Refer to Spec Sheet |
| Oxidizing Properties: | Not Oxidizing |
| Specific Gravity: | 0.86 at 25°C |

10. Stability and Reactivity

Reactivity: This product is stable and non-reactive under normal

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conditions of use, storage, and transport.

Chemical Stability:

Material is stable under normal conditions.

Possibility of Hazardous Reaction:

No dangerous reaction under conditions of normal use.

Conditions to Avoid:

Avoid heat, sparks, open flames, and other ignition sources. Avoid temperatures exceeding the flash point.

Incompatible Materials:

Strong oxidizing agents.

Hazardous Decomposition Products:

No hazardous decomposition products if stored and handled as indicated:

11. Toxicological Information

Information on Likely Routes of Exposure:

Inhalation:

Prolonged inhalation may be harmful.

Eye Contact:

Causes mild/serious eye irritation.

Skin Contact:

Causes skin irritation. May cause an allergic skin reaction.

Ingestion:

May be harmful if swallowed. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

Symptoms Related to the Physical, Chemical, and Toxicological Characteristics:

Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

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| Acute Toxicity: | May be fatal if swallowed and enters the airways. |
| Product: | Dermal LD50. |
| Species: | Rabbit. |
| Test Results: | >5000 mg/kg. |
| Skin Corrosion / Irritation: | Causes skin irritation. |
| Serious Eye Damage / Eye Irritation: | Causes serious eye irritation. |
| Respiratory or Skin Sensitization Respiratory Sensitization: | Not a respiratory sensitizer. |
| Skin Sensitization: | May cause an allergic skin reaction. |
| Germ Cell Mutagenicity: | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |
| Carcinogenicity: | Not listed. |
| IARC Monographs. Overall Evaluation of Carcinogenicity: | Not listed. |
| OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052): | Not Regulated. |
| US National Toxicology Program (NTP) Report on | |

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| Carcinogens: | Not listed. |
| Reproductive Toxicity: | This product is not expected to cause reproductive or developmental effects. |
| Specific Target Organ Toxicity - Single Exposure: | Not classified. |
| Aspirational Hazard: | May be fatal if swallowed and enters the airways. |
| Chronic Effects: | Prolonged inhalation may be harmful. |

12. Ecological Information

| | |
|--------------------------------------|---|
| Ecotoxicity: | Very toxic to aquatic life with long lasting effects. |
| Aquatic: | Crustacea LC50 Fish LC50. |
| Species: | Daphnia magna |
| Test Results: | 41 mg/l, 48 hours |
| Aquatic: | Fish LC50 |
| Species: | Fathead minnow (Pimephales promelas) |
| Test Results: | 0.28 mg/l, 96 hours |
| Persistence and Degradability | |
| Biodegradability: | Biotic. Aerobic Result: Readily biodegradable. |
| Bioaccumulative Potential: | Partition coefficient n-octanol / water (log Kow) 4.83. |
| Mobility in Soil: | No data available. |
| Other Adverse Effects: | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are |

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expected from this component.

13. Disposal Considerations

Disposal Instructions:

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 containers. Dispose of contents/container in accordance with local/regional/national/international groups.

Local Disposal Regulations:

Dispose in accordance with all applicable regulations.

Hazardous Waste Code:

Not established.

Waste from Residues / Unused Products:

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).

Contaminated Packaging:

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

14. Transport Information

AND:**UN Number:**

1197

UN Proper Shipping Names:

Extracts, Flavoring, Liquid

Transport Hazard Class(es):

3

Subsidiary Class(es):

Packing Group III

Environmental Hazards:

Yes

Labels Required:

3

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ADR:

UN Number: 1197
UN Proper Shipping Names: Extracts, Flavoring, Liquid
Transport Hazard Class(es): 3
Subsidiary Class(es): Packing Group III
Environmental Hazards: Yes
Labels Required: 3

RID:

UN Number: 1197
UN Proper Shipping Name: Extracts, Flavoring, Liquid
Transport Hazard Class(es): 3
Subsidiary Class(es): Packing Group III
Environmental Hazards: Yes
Labels Required: 3
Special Precautions for User: Read safety instructions, SDS, and emergency procedures before handling.

DOT BULK:

UN Number: 1197
UN Proper Shipping Name: Extracts, Flavoring, Liquid
Transport Hazard Class(es): 3
Subsidiary Class(es): Packing Group III
Environmental Hazards: Yes
Marine Pollutant: Yes
Labels Required: Yes

DOT:

NON-BULK UN Number: 1197
UN Proper Shipping Name: Extracts, Flavoring, Liquid
Transport Hazard Class(es): 3
Subsidiary Class(es): Packing Group III
Environmental Hazards: Yes

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| Maine Pollutant: | Yes |
| Packaging Exceptions: | 150 |
| Packaging Non-Bulk: | 203 |
| Labels Required: | 3 |
| Special Precaution for User: | Read safety instructions, SDS, and emergency procedures before handling. |

IMDG

| | |
|--|-----------------------------|
| UN Number: | 1197 |
| UN Proper Shipping Name: | Extracts, Flavoring, Liquid |
| Transport Hazard Class(es): | 3 |
| Subsidiary Class(es): | Packing Group III |
| Environmental Hazards: | Yes |
| Marine Pollutant: | Yes |
| Labels Required: | 3 |
| Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: | Not applicable. |



Marine Pollutant



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15. Regulatory Information

US Federal Regulations:

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

CERCLA Hazardous Substance List (40 CFR 302.4):

Not listed.

SARA 304 Emergency Release Notification:

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

Not available.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D):

Not regulated.

Superfund Amendments and Reauthorization Act of 1986

(SARA):

SARA 302 Extremely Hazardous Substance:

Not listed.

SARA 311/312 Hazardous Chemical:

Yes

Classified Hazard Categories Flammable (gases, aerosols, liquids, or solids):

Acute toxicity (any route of exposure), acute toxicity (any route of exposure), skin corrosion or irritation, serious eye damage or eye irritation, respiratory or skin sensitization, aspiration hazard, hazard not otherwise classified (HNOC).

SARA 313 (TRI reporting):

Not regulated.

Other Federal Regulations:

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List:

Not regulated.

Clean Air Act (CAA) Section

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112(r) Accidental Release

Prevention (40CFR 68.130): Not regulated.

Safe Drinking Water Act (SDWA): Not regulated.

US State Regulation:

California Proposition 65 -

Carcinogens & Reproductive

Toxicity (CRT): Listed Substance: Not listed.

International Inventories

Country(s) or Region inventory

On Inventory:

**Australian Inventory of Chemical
Substances (AICS):** Yes

**Canada Domestic Substances
List (DSL):** Yes

**Canada Non-Domestic
Substances List (NDSL):** No

**China Inventory of Existing
Chemical Substances in China
(IECSC):** Yes

**Europe European Inventory
Of Existing Commercial Chemical
Substances (EINECS):** Yes

**European List of Notified Chemical
Substances (ELINCS):** Yes

**Japan Inventory of Existing
And New Chemical Substances
(ENCS):** Yes

**Korea Existing Chemical List
(ECL):** Yes

New Zealand Inventory: Yes

Philippine Inventory of Chemicals

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And Chemical Substances (PICCS): Yes

Taiwan Toxic Chemical Substances (TCS): Yes

United States and Puerto Rico

Toxic Substance Control Act (TCSA)

Inventory: Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

**A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other Information

Issue Date: 06/24/19

HMIS Rating: Health 2

Flammability: 3

Physical Hazard: 0

Disclaimer: Disclaimer Blended LLC cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. The above information relates only to this product and not to its use in combination with any other material or any particular process and is designed only as guidance for the safe handling, use, processing, storage, transportation, and disposal and should not be considered as a guarantee or quality specification. This product has not been derived from US Federal or State regulated substances. This product has not been evaluated for safe use in e-cigarettes or any vaping application where the product(s) is/are intentionally vaporized and inhaled in its pure form. Blended LLC has performed no testing on these products in e-cig/vaping applications in its pure form. It is the sole responsibility of the individual(s) purchasing this product to assess its safety in the final application. The above information relates only to this product and not to its use in combination with any other material or any particular process and is designed only as guidance for the safe handling, use, processing, storage, transportation, disposal, and should not be considered as a guarantee or quality specification. The above information is based on data provided by and

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collected from recognized sources such as distributors, manufacturers, and technical groups and is considered to be accurate to the best of Blended LLC's knowledge as of the date of this document. It is the responsibility of the user to review all safety information about this product and determine its safety and suitability in their own processes and operations. Appropriate warnings and safe handling procedures should be provided to all handlers and users, taking into account the intended use and the specific conditions and factors relating to such use in accordance with all applicable laws and regulations. Disclaimer Revision information: This document has undergone significant changes and should be reviewed in its entirety.