

SAFETY DATA SHEET

Revision date 15-Jun-2021

Revision Number 1

1. Identification

Product identifier

Product Name Jack Herer

Other means of identification

Product Code(s) FG00061

UN number or ID number UN2319

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use Flavors

Restrictions on use This product is concentrated and should be diluted before use. Do not use with tobacco or nicotine products. Users should conduct and determine their own safety standards for use. This product has not been evaluated for safe use in any vaping application where the products are intentionally inhaled. It's the users responsibility to ensure safe conditions for use, handling, storage, disposal of the product, and to assume liability for loss, injury, damage, or expense due to improper use. Do not use product if you are pregnant, nursing, or a person with or at risk of health conditions including but not limited to: heart disease, high blood pressure, diabetes, respiratory illness, or if you are taking medicine for depression or asthma. Stop use and consult your doctor if any adverse reactions occur. This product is not intended to diagnose, treat, cure or prevent any disease.

Details of the supplier of the safety data sheet

Initial supplier identifier

Xtra Laboratories LLC
3121 S. Park Dr
Tempe, AZ 85282
Telephone 480-968-6569

Supplier Address

Xtra Laboratories LLC
3121 S. Park Dr
Tempe, AZ 85282
Telephone 480-968-6569

Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC - 24hr Emergency Phone number USA 800-424-9300

Emergency Telephone No information available

2. Hazard(s) identification

Classification

Skin sensitization	Category 1B
Carcinogenicity	Category 2
Flammable liquids	Category 3

Appearance
Label elements

Physical state Liquid

Odor Characteristic Odor

Warning

Hazard statements

May cause an allergic skin reaction

Suspected of causing cancer

Flammable liquid and vapor

**Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Wear protective gloves, protective clothing, eye protection and face protection

Avoid breathing dust, fume, gas, mist, vapors and spray

Contaminated work clothing must not be allowed out of the workplace

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

Keep container tightly closed

Ground and bond container and receiving equipment

Use explosion-proof electrical, ventilating, lighting and .? equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Specific treatment (see .? on this label)

Skin

If skin irritation or rash occurs: Get medical advice and attention

Wash contaminated clothing before reuse

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water and then shower

Fire

In case of fire: Use CO2, dry chemical, or foam to extinguish

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents and container to an approved waste disposal plant

Other information

May be harmful if swallowed. Very toxic to aquatic life with long lasting effects. Very toxic to aquatic life.

3. Composition/information on ingredients

Substance

Not applicable.

Mixture

Chemical name	CAS No	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Trade secret	Trade secret	20 - 30%	-	-
Trade secret	Trade secret	0 - 10%	-	-
Trade secret	Trade secret	0 - 10%	-	-
Trade secret	Trade secret	0 - 10%	-	-
Trade secret	Trade secret	0 - 10%	-	-

Trade secret	Trade secret	0 - 10%	-	-
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4. First-aid measures

Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.
Inhalation	Remove to fresh air.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.
Ingestion	Clean mouth with water and drink afterwards plenty of water.
Self-protection of the first aider	Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information.

Most important symptoms and effects, both acute and delayed

Symptoms	Itching. Rashes. Hives.
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Indication of any immediate medical attention and special treatment needed

Note to physicians	May cause sensitization in susceptible persons. Treat symptomatically.
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5. Fire-fighting measures

Suitable Extinguishing Media	Dry chemical. Carbon dioxide (CO ₂). Water spray. Alcohol resistant foam.
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
Specific hazards arising from the chemical	Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Product is or contains a sensitizer. May cause sensitization by skin contact.
Explosion data	
Sensitivity to mechanical impact	None.
Sensitivity to static discharge	Yes.
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	See section 8 for more information. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be
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grounded. Do not touch or walk through spilled material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Other information

Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up**Methods for containment**

Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Methods for cleaning up

Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

7. Handling and storage**Precautions for safe handling****Advice on safe handling**

Use personal protection equipment. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing.

Conditions for safe storage, including any incompatibilities**Storage Conditions**

Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.

8. Exposure controls/personal protection**Control parameters****Exposure Limits**

Chemical name		ACGIH TLV	OSHA PEL	NIOSH	
Trade secret		dermal sensitizer TWA: 20 ppm	-	-	
Trade secret		dermal sensitizer TWA: 20 ppm	-	-	
Trade secret		dermal sensitizer TWA: 20 ppm	-	-	
Chemical name	Alberta	British Columbia	Ontario	Quebec	
Trade secret	TWA: 20 ppm TWA: 111 mg/m³	TWA: 20 ppm Dermal Sensitizer	TWA: 20 ppm	TWA: 20 ppm TWA: 112 mg/m³	
Trade secret	TWA: 20 ppm TWA: 111 mg/m³	TWA: 20 ppm Dermal Sensitizer	TWA: 20 ppm	TWA: 20 ppm TWA: 112 mg/m³	
Trade secret	TWA: 20 ppm	TWA: 20 ppm	TWA: 20 ppm	TWA: 20 ppm	

	TWA: 111 mg/m ³	Dermal Sensitizer		TWA: 112 mg/m ³
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Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering controls Showers
 Eyewash stations
 Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles.

Hand protection Impervious gloves. Wear suitable gloves.

Skin and body protection Long sleeved clothing. Chemical resistant apron. Antistatic boots. Wear suitable protective clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Liquid

Appearance

Color Clear/Yellow

Odor Characteristic Odor

Odor threshold No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	None known
Melting point / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash point	<= 47 °C / 117 °F	ASTM D93 Pensky-Martens Closed Cup
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapor pressure	No data available	None known
Relative vapor density	No data available	None known
Relative density	.8763	None known
Water solubility	No data available	None known
Solubility in other solvents	OIL	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature		None known
Kinematic viscosity	No data available	None known

Dynamic viscosity	No data available	None known
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Other information

Explosive properties	No information available
Oxidizing properties	No information available
Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Liquid Density	No information available
Bulk density	No information available

10. Stability and reactivity

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	None known based on information supplied.
Hazardous decomposition products	None known based on information supplied.

11. Toxicological information**Information on likely routes of exposure****Product Information**

Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	May cause sensitization by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components).
Ingestion	May be harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms	Itching. Rashes. Hives.
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Acute toxicity**Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral)	4,522.20 mg/kg
ATEmix (dermal)	10,809.00 mg/kg

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Trade secret	= 4390 mg/kg (Rat)	-	-
Trade secret	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	-
Trade secret	= 3700 mg/kg (Rat)	> 5000 mg/kg (Rat)	-

Trade secret	> 5 g/kg (Rat)	> 5 g/kg (Rabbit)	-
Trade secret	= 2790 mg/kg (Rat)	= 2000 mg/kg (Rabbit)	-
Trade secret	= 4800 mg/kg (Rat)	-	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization May cause sensitization by skin contact.

Germ cell mutagenicity No information available.

Carcinogenicity Contains a known or suspected carcinogen. Classification based on data available for ingredients. Suspected of causing cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Trade secret	-	Group 2B	-	X

Legend

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

12. Ecological information

Ecotoxicity Very toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Trade secret	-	LC50: =0.805mg/L (96h, Danio rerio)	-	-
Trade secret	-	LC50: =0.28mg/L (96h, Pimephales promelas)	-	LC50: =41mg/L (48h, Daphnia magna)
Trade secret	EC50: =88.3mg/L (96h, Desmodium subspicatus)	LC50: =27.8mg/L (96h, Oncorhynchus mykiss)	-	EC50: =20mg/L (48h, Daphnia magna)

Persistence and degradability No information available.

Bioaccumulation No information available.

Component Information

Chemical name	Partition coefficient
Trade secret	4.1

Trade secret	2.84 - 3.1
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Mobility in soil	No information available.
Other adverse effects	No information available.

13. Disposal considerations

Waste treatment methods

Waste from residues/unused products	Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

14. Transport information

DOT

UN number or ID number	UN2319
Proper shipping name	Terpene hydrocarbons, n.o.s.
Transport hazard class(es)	3
Packing group	III
DOT Marine Pollutant	I
Marine pollutant	Terpinolene, .alpha.-Pinene
Description	UN2319, Terpene hydrocarbons, n.o.s., 3, III, Marine pollutant (Terpinolene, .alpha.-Pinene)
Special Provisions	B1, IB3, T4, TP1, TP29
Emergency Response Guide Number	128

TDG

UN number or ID number	UN2319
UN proper shipping name	Terpene hydrocarbons, n.o.s.
Transport hazard class(es)	3
Packing group	III
Marine pollutant	Terpinolene, .alpha.-Pinene.
Description	UN2319, Terpene hydrocarbons, n.o.s., 3, III

MEX

UN number or ID number	UN2319
UN proper shipping name	Terpene hydrocarbons, n.o.s.
Transport hazard class(es)	3
Packing group	III
Description	UN2319, Terpene hydrocarbons, n.o.s., 3, III

ICAO (air)

UN number or ID number	UN2319
UN proper shipping name	Terpene hydrocarbons, n.o.s.
Transport hazard class(es)	3
Packing group	III
Description	UN2319, Terpene hydrocarbons, n.o.s., 3, III

IATA

UN number or ID number	UN2319
UN proper shipping name	Terpene hydrocarbons, n.o.s.
Transport hazard class(es)	3
Packing group	III

ERG Code 3L
Description UN2319, Terpene hydrocarbons, n.o.s., 3, III

IMDG

UN number or ID number UN2319
UN proper shipping name Terpene hydrocarbons, n.o.s.
Transport hazard class(es) 3
Packing group III
EmS-No F-E, S-D
Marine pollutant P
Description UN2319, Terpene hydrocarbons, n.o.s. (Terpinolene), 3, III, Marine pollutant

RID

UN number or ID number UN2319
UN proper shipping name Terpene hydrocarbons, n.o.s.
Transport hazard class(es) 3
Packing group III
Classification code F1
Description UN2319, Terpene hydrocarbons, n.o.s., 3, III, Environmentally Hazardous

ADR

UN number or ID number UN2319
UN proper shipping name Terpene hydrocarbons, n.o.s.
Transport hazard class(es) 3
Packing group III
Classification code F1
Tunnel restriction code (D/E)
Description UN2319, Terpene hydrocarbons, n.o.s., 3, III, (D/E), Environmentally Hazardous

ADN

UN number or ID number UN2319
UN proper shipping name Terpene hydrocarbons, n.o.s.
Transport hazard class(es) 3
Packing group III
Classification code F1
Description UN2319, Terpene hydrocarbons, n.o.s., 3, III, Environmentally Hazardous
Ventilation VE01
Equipment Requirements PP, EX, A

15. Regulatory information**Safety, health and environmental regulations/legislation specific for the substance or mixture****International Regulations**

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories

TSCA Contact supplier for inventory compliance status.

Chemical name	CAS No	US TSCA Inventory listing	US TSCA inactive/active designation
Trade secret	-	Present	Active
Trade secret	-	Present	Active
Trade secret	-	Present	Active
Trade secret	-	Present	Active
Trade secret	-	Present	Active

Chemical name	CAS No	US TSCA Inventory listing	US TSCA inactive/active designation
Trade secret	-	Present	Active
Trade secret	-	Present	Active
Trade secret	-	Present	Active
Trade secret	-	Present	Active
Trade secret	-	Present	Active
Trade secret	-	Present	Active
Trade secret	-	Present	Active
Trade secret	-	Present	Active
Trade secret	-	Present	Active
Trade secret	-	Present	Active
Trade secret	-	Present	Active
Trade secret	-	Present	Active
Trade secret	-	Present	Active
Trade secret	-	Present	Active
Trade secret	-	Present	Active

DSL/NDSL

Contact supplier for inventory compliance status.

EINECS/ELINCS

Contact supplier for inventory compliance status.

ENCS

Contact supplier for inventory compliance status.

IECSC

Contact supplier for inventory compliance status.

KECL

Contact supplier for inventory compliance status.

PICCS

Contact supplier for inventory compliance status.

AICS

Contact supplier for inventory compliance status.

Legend:**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances**ENCS** - Japan Existing and New Chemical Substances**IECSC** - China Inventory of Existing Chemical Substances**KECL** - Korean Existing and Evaluated Chemical Substances**PICCS** - Philippines Inventory of Chemicals and Chemical Substances**AICS** - Australian Inventory of Chemical Substances**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals:.

Chemical name	California Proposition 65
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Trade secret -	Carcinogen
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U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Trade secret	X	-	-
Trade secret	X	X	X
Trade secret	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information

NFPA	Health hazards 2	Flammability 2	Instability 0	Physical and chemical properties -
HMIS	Health hazards 2 *	Flammability 2	Physical hazards 0	Personal protection X

Key or legend to abbreviations and acronyms used in the safety data sheetLegend Section 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
 U.S. Environmental Protection Agency ChemView Database
 European Food Safety Authority (EFSA)
 EPA (Environmental Protection Agency)
 Acute Exposure Guideline Level(s) (AEGl(s))
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
 U.S. Environmental Protection Agency High Production Volume Chemicals
 Food Research Journal
 Hazardous Substance Database
 International Uniform Chemical Information Database (IUCLID)
 Japan GHS Classification
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
 NIOSH (National Institute for Occupational Safety and Health)
 National Library of Medicine's ChemID Plus (NLM CIP)
 National Library of Medicine's PubMed database (NLM PUBMED)
 National Toxicology Program (NTP)
 New Zealand's Chemical Classification and Information Database (CCID)
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program
 Organization for Economic Co-operation and Development Screening Information Data Set
 World Health Organization

Revision date 15-Jun-2021

Revision Note No information available.

Disclaimer

It is the user's responsibility to ensure safe conditions for use, handling, storage, and disposal of the product, and to assume liability for loss, injury, damage, or expense due to improper use. Xtra Laboratories 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. Xtra Laboratories has performed no testing on these products in vaping applications. 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 handling, use, processing, storage, transportation, and disposal. It is the sole responsibility of the individual(s) purchasing this product to assess its safety in the final application. The above

information is based on data provided by and collected from recognized sources and is considered to be accurate to the best of Xtra Laboratories' knowledge based upon current information as of the date of this document.

End of Safety Data Sheet