

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Substance
 Product name : BLACK PEPPER TTB APPROVED EXTRACTION
 CAS-No. : N/A
 Product code : TBBS24
 Product group : Trade product

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

For food use only.

1.2.2. Uses advised against

Not for use in cigarettes, e-cigarettes, inhalation products, fragrances, aromatherapy or cosmetics.

1.3. Details of the supplier of the safety data sheet

EXTRACT CONSULTANTS, LLC.
 TERPENES - FLAVORS - BASES
 7321 HERITAGE SQUARE DR, SUITE 2110, GRANGER, IN 46530
 www.extractconsultants.com
 INFORMATION: 888-541-9089

1.4. Emergency telephone number

Emergency number : CHEMTREC - USA: 800-424-9300 International: +1 703-527-3887 / 1-800-424-9300
 CCN 13010

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS US classification

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquid, Hazard Category 2	Highly flammable liquid and vapor
Eye Damage / Irritation Category 2	Causes serious eye irritation
Sensitization - Skin Category 1	May cause an allergic skin reaction
M factor	None

Full text of H statements : see section 16

2.2. Label elements

GHS US labeling

Hazard pictograms (GHS US)



GHS02

GHS07

Signal word (GHS US)

: Danger

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Hazard statements (GHS US)

: Highly flammable liquid and vapor.
Causes serious eye irritation.
May cause an allergic skin reaction.

Precautionary statements (GHS US)

: 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 and lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing vapor or dust.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Wear protective gloves/eye protection/face protection.
Wash hands, forearms and face thoroughly after handling.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
In case of fire: Use media other than water to extinguish.
Store in a well-ventilated place. Keep cool.
Dispose of contents/container to approved disposal site, in accordance with local regulations.
Wash contaminated clothing before reuse.

2.3. Other hazards which do not result in classification

None

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Name	Product identifier	%	GHS Classification
ETHYL ALCOHOL	(CAS-No.) 64-17-5	20 - 50	FL 2-ED1 2ED1 2A H225-H319
D-LIMONENE (R)-P-MENTHA-,1,8-DIENE	(CAS-No.) 5989-27-5	0.1 - 1	FL 3-SCI 2-SS 1-AH 1 H226-H304-H315-H317
ALPHA-PINENE	(CAS-No.) 80-56-8	0.1 - 1	FL 3-SCI 2-SS 1B-AH 1 H226-H304-H315-H317
BETA-PINENE	(CAS-No.) 127-91-3	0.1 - 1	FL 3-SCI 2-SS 1B-AH 1 H226-H304-H315-H317

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DELTA-3-CARENE	(CAS-No.) 13466-78-9	0.1 - 1	FL 3-SCI 2-SS 1-AH 1 H226-H304-H315-H317
BETA-CARYOPHYLLENE	(CAS-No.) 87-44-5	0.1 - 1	SS 1B-AH 1 H304-H317

3.2. Mixtures

Not applicable

Full text of hazard classes and H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Remove person from exposure site to fresh air, keep at rest, and obtain medical attention.
- First-aid measures after skin contact : IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower
- First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
- First-aid measures after ingestion : Rinse mouth with water and obtain medical attention.

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

Causes serious eye irritation.
May cause an allergic skin reaction.

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

Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide, Dry chemical, Foam.

5.2. Special hazards arising from the substance or mixture

In case of fire, may be liberated : Carbon monoxide, Unidentified organic compounds.

5.3. Advice for firefighters

In case of insufficient ventilation, wear suitable respiratory equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid inhalation. Avoid contact with skin and eyes. See protective measures under Section 7 and 8.

6.2. Environmental precautions

Keep away from drains, surface and ground water, and soil.

6.3. Methods and material for containment and cleaning up

Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapors. Contain spillage immediately by use of sand or inert powder. Dispose of according to local regulations.

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6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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

7.2. Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Ground/bond container and receiving equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

ETHYL ALCOHOL (CAS No. 64-17-5) / (EC No. 200-578-6)	
Occupational Exposure Limits	
Long-term exposure limit (8-hour TWA) (ppm)	1000
Long-term exposure limit (8-hour TWA) (mg/m ³)	1920
Short-term exposure limit (15-minute) (ppm)	3000
Short-term exposure limit (15-minute) (mg/m ³)	5760

PROPYLENE GLYCOL (CAS No. 57-55-6) / (EC No. 200-338-0)	
Occupational Exposure Limits	
Long-term exposure limit (8-hour TWA) (ppm)	150
Long-term exposure limit (8-hour TWA) (mg/m ³)	474

8.2. Exposure controls

Engineering measures:

Showers, eyewash stations, ventilation systems.

8.3. Individual protection measures, such as personal protective equipments

Eye/Face and Skin Protection

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

Respiratory protection:

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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. A NIOSH-approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where air-purifying respirators may not provide adequate protection.

Personal protective equipment symbol(s):



Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state/Color	A clear yellow brown liquid
Odor	Of black pepper
Odor Threshold	Not determined
Melting point / freezing point:	Not determined
Boiling point or initial boiling point and boiling	Not determined
Flammability (solid, gas)	Not determined
Lower and upper explosion limit	Product does not present an explosion hazard
Flash point	59 °F / 15 °C
Evaporation rate	Not determined
Auto-ignition temperature	Not determined
Decomposition temperature	Not relevant
pH	Not determined
Kinematic viscosity	Not determined
Solubility	Soluble in Water. Not Oil Soluble.
Partition coefficient n-octanol/water (Log Pow)	Not determined
Vapor pressure	Not determined
Relative density @ 25 °C	Not determined

9.2. Other information

Density @ 20 °C 0.9170 - 0.9370 g/cm³

SECTION 10: Stability and reactivity

10.1. Reactivity

Presents no significant reactivity hazard, by itself or in contact with water.

10.2. Chemical stability

Stable under normal storage conditions.

10.3. Possibility of hazardous reactions

Not expected under normal conditions of use.

10.4. Conditions to avoid

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Avoid extreme heat.

10.5. Incompatible materials

Avoid contact with strong acids, alkalis, or oxidising agents.

10.6. Hazardous decomposition products

Not expected.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in 29 CFR 1910.1200

This mixture has not been tested as a whole for health effects. The health effects have been calculated using the methods outlined in 29 CFR 1910.1200.

Acute Toxicity	Based on available data the classification criteria are not met.
Acute Toxicity Oral	Not Applicable
Acute Toxicity Dermal	Not Applicable
Acute Toxicity Inhalation	Not available
Skin corrosion/irritation	Based on available data the classification criteria are not met.
Serious eye damage/irritation	Eye Damage / Irritation Category 2
Respiratory or skin sensitisation	Sensitization - Skin Category 1
Germ cell mutagenicity	Based on available data the classification criteria are not met.
Carcinogenicity	Based on available data the classification criteria are not met.
Reproductive toxicity	Based on available data the classification criteria are not met.
STOT-single exposure	Based on available data the classification criteria are not met.
STOT-repeated exposure	Based on available data the classification criteria are not met.
Aspiration hazard	Based on available data the classification criteria are not met.

11.2 Information on other hazards

Not applicable

SECTION 12: Ecological information

12.1 Ecotoxicity

Harmful to aquatic life with long lasting effects

12.2 Persistence and degradability

Not available

12.3 Bioaccumulative potential

Not available

12.4 Mobility in soil

Not available

12.5 Other adverse effects

Not available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of in accordance with local regulations. Avoid disposing into drainage systems and into the environment. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information

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	14.1 UN number	14.2. UN proper shipping name	14.3 Transport hazard class(es)	Sub risk	14.4 Packing group
UN Model Regulations	UN1170	ETHANOL	3	-	II
US DOT	UN1170	ETHANOL	3	-	II
US DOT (Bulk)	UN1170	ETHANOL	3	-	II
IMDG	UN1170	ETHANOL	3	-	II
ADR,RID,AND	UN1170	ETHANOL	3	-	II
ICAO TI	UN1170	ETHANOL	3	-	II

US DOT refers to domestic transport by road/rail within the 48 ground states.

US DOT (Bulk) refers to domestic bulk transport by road/rail within the 48 ground states.

14.5. Environmental hazards

Not environmentally hazardous for transport

14.6. Special precautions for user

None additional

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

None additional

15.2. Additional information

None additional

SECTION 16: Other information

Issue date

2/15/22

Full text of H-phrases:

H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H227	Combustible liquid
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.

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H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H361	Suspected of damaging fertility or the unborn child

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.