

SAFETY DATA SHEET.

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard (29 CFR 1910.1200)

Revision Date 29-Nov-2022

Version 1

1. Identification Product identifier Product name PEPPERMINT BARK TYPE EXTRACT, (DARK CHOCOLATE), NATURAL & ARTIFICIAL

Other means of identification

Product Code(s)	1182, 1182TTB
UN/ID No	1197
CAS No FEMA Numbers Synonyms	NA NA None

Recommended use of the chemical and restrictions on use

Recommended Use No information available

Restrictions on use No information available

Details of the supplier of the safety data sheet

Manufacturer

Apex Flavors, Inc. 1361 Brass Mill Rd. Suite E Belcamp, MD 21017 (410) 565-6600

Emergency telephone number Chemtrec: 1-800-424-9300 for US/ Outside US Chemtel 813-248-0585

2. Hazard(s) identification

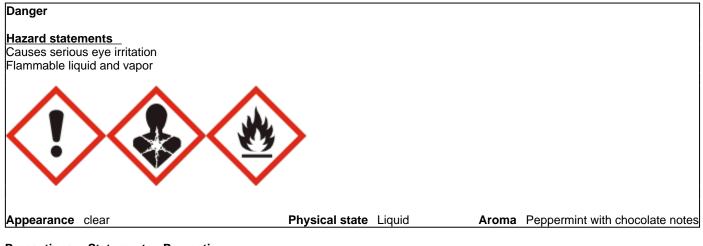
Classification

Serious eye damage/eye irritation	Category 2A
Flammable liquids	Category 3

Hazards not otherwise classified (HNOC)

Not applicable

Label elements



Precautionary Statements - Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling 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 only non-sparking tools Take action to prevent static discharges Use explosion-proof electrical/ ventilating / lighting/ .? / equipment

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

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

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

17.24615 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
40.2267 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
97.14254 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
97.14254 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
74.16199 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Other information

Toxic to aquatic life with long lasting effects. Toxic to aquatic life.

3. Composition/information on ingredients

Substance

Chemical name	CAS No	Weight-%	Trade secret
Ethyl alcohol	64-17-5	20-30%	*
VANILLIN	121-33-5	1-5%	*
ACETYL METHYL CARBINOL	513-86-0	<1	*

ACETALDEHYDE	75-07-0	<1	*
DIMETHYL SULFIDE	75-18-3	<1	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First-aid measures

Description of first aid measures

Inhalation	Remove to fresh air.	
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.	
Skin contact	Wash skin with soap and water.	
Ingestion	Rinse mouth.	
Most important symptoms and effects, both acute and delayed		
Symptoms	No information available.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically.	
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5. Fire-fighting measures

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.	
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	No information available.	
Explosion data Sensitivity to mechanical impact None.		
Sensitivity to static discharge	None.	
Special protective equipment and precautions 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

Ensure adequate ventilation.

Methods and material for containment and cleaning up

Methods for cleaning up Pick up and transfer to properly labeled containers.

7. Handling and storage

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place.

8. Exposure controls/personal protection

Control parameters

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Ethyl alcohol	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900	IDLH: 3300 ppm
64-17-5		mg/m³	TWA: 1000 ppm TWA: 1900
		(vacated) TWA: 1000 ppm	mg/m ³
		(vacated) TWA: 1900 mg/m ³	
ACETALDEHYDE	Ceiling: 25 ppm	TWA: 200 ppm TWA: 360	IDLH: 2000 ppm
75-07-0		mg/m³	
		(vacated) TWA: 100 ppm	
		(vacated) TWA: 180 mg/m ³	
		(vacated) STEL: 150 ppm	
		(vacated) STEL: 270 mg/m ³	
DIMETHYL SULFIDE	TWA: 10 ppm	-	-
75-18-3			

Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, suc	ch as personal protective equipment
Eye/face protection	No special protective equipment required.
Skin and body protection	No special protective equipment required.
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	Handle in accordance with good industrial hygiene and safety practice.
EC No (EU Index No) This safety data sheet was created pursua to the requirements of:	nt

9. Physical and chemical p			
Property	Values	Method	
pH	No data available None known		
Melting/freezing point	No data available None known No data available None known		
Boiling point/boiling range Flash Point	38 °C / 101 °F Closed cup		
Evaporation rate	No data available		
Flammability (solid, gas)	No data available None known		
Flammability Limits in Air	None known		
Upper flammability limit	No data available		
lower flammability limit	No data available		
Vapor pressure mm Hg 20°C	No data available None known		
Vapor density	No data available None known		
Relative density			
Solubility in other solvents	No data available None known		
Partition coefficient: n-octanol/wate			
Autoignition temperature Remarks	No data available None known		
Decomposition Temperature VALU			
Remarks	None known		
Viscosity, kinematic	No data available None known		
Viscosity, dynamic	No data available None known		
Information on basic physical and o			
Physical state	Liquid clear		
Appearance Color	dark brown		
Aroma	Peppermint with chocolate notes		
Odor Threshold	No information available		
Property	Values	• Method	
рН	No data available	None known	
Melting/freezing point	No data available	None known	
Boiling point/boiling range Flash Point	No data available 38 °C / 101 °F	None known None known	
Evaporation rate	No data available	None known	
Flammability (solid, gas)	No data available	None known	
Flammability Limits in Air		None known	
Upper flammability limit	No data available		
lower flammability limit	No data available	None known	
Vapor pressure mm Hg 20°C Vapor density	No data available No data available	None known None known	
Relative density		None known	
Water solubility	No data available	None known	
Solubility in other solvents	No data available	None known	
Partition coefficient: n-octanol/wate		None known	
Autoignition temperature	No data available	None known	
Decomposition Temperature VALU Viscosity, kinematic	E No data available	None known None known	
Viscosity, dynamic	No data available	None known	
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		
EC No (EU Index No)			
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to the requirements of:			

Density VALUE	No information available
Bulk Density VALUE	No information available
Specific Gravity @ 25C	0.9937 - 1.0237 FCC Method
Specific Gravity @ 20C	0.9967 - 1.0267 FCC Method
Refractive Index @ 20C	1.4002 - 1.4202 FCC Method

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	None known based on information supplied.
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

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	Specific test data for the substance or mixture is not available.
Ingestion	Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms

No information available.

Acute toxicity

Numerical measures of toxicity No information available

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

ATEmix (oral)	12,521.30 mg/kg
ATEmix (dermal)	20,218.60 mg/kg
ATEmix (inhalation-dust/mist)	18.00 mg/l

17.24615 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

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Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ethyl alcohol 64-17-5	7060 mg/kg (Rat)	-	124.7 mg/L (Rat)4 h
VANILLIN 121-33-5	1580 mg/kg (Rat)	5010 mg/kg (Rabbit)	-

ACETYL METHYL CARBINOL 513-86-0	5 g/kg (Rat)	5 g/kg (Rabbit)	-
ACETALDEHYDE 75-07-0	1930 mg/kg (Rat)	-	-
DIMETHYL SULFIDE 75-18-3	535 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	No information available.
Germ cell mutagenicity	No information available.

Carcinogenicity No information available.

Chemical name	ACGIH	IARC	NTP	OSHA
Ethyl alcohol	A3	Group 1	Known	Х
64-17-5				
ACETALDEHYDE	A3	Group 1	Reasonably Anticipated	Х
75-07-0		Group 2B		

No information available.
No information available.
No information available.
Blood, Central nervous system, Eyes, Liver, Reproductive system, Respiratory system, Skin.
No information available.
No information available.
No information available.

12. Ecological information

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ethyl alcohol	-	12.0 - 16.0: 96 h	EC50 = 34634 mg/L 30	9268 - 14221: 48 h
64-17-5		Oncorhynchus mykiss	min	Daphnia magna mg/L
		mL/L LC50 static 100: 96	EC50 = 35470 mg/L 5	LC50 10800: 24 h

		min	Daphnia magna mg/L
			EC50 2: 48 h Daphnia
			magna mg/L EC50 Static
	promelas mg/L LC50		
	flow-through		
-	53 - 61.3: 96 h	-	180: 24 h Daphnia
	Pimephales promelas		magna mg/L EC50
	mg/L LC50 flow-through		
	static 57: 96 h		
	Pimephales promelas		
237 - 249: 120 h	28.0 - 34.0: 96 h	-	3.64 - 6.15: 48 h Daphnia
Nitzschia linearis mg/L	Pimephales promelas		magna mg/L EC50 Static
EC50			48.3: 48 h Daphnia
			magna mg/L EC50
	static 1.8 - 2.4: 96 h		
	Oncorhynchus mykiss		
	static		
-	-	-	23: 48 h Daphnia pulex
			mg/L EC50
	Nitzschia linearis mg/L	- 53 - 61.3: 96 h Pimephales promelas mg/L LC50 flow-through 88: 96 h Pimephales promelas mg/L LC50 static 57: 96 h Pimephales promelas mg/L LC50 semi-static 237 - 249: 120 h Nitzschia linearis mg/L EC50 237 - 249: 120 h Nitzschia linearis mg/L EC50 53: 96 h Lepomis macrochirus mg/L LC50 static 1.8 - 2.4: 96 h Oncorhynchus mykiss mg/L LC50 static 39.8 - 46.8: 96 h Pimephales promelas mg/L LC50	mg/L LC50 static 13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through-53 - 61.3: 96 h Pimephales promelas mg/L LC50 flow-through 88: 96 h Pimephales promelas mg/L LC50 static 57: 96 h Pimephales promelas mg/L LC50 semi-static237 - 249: 120 h Nitzschia linearis mg/L EC5028.0 - 34.0: 96 h Pimephales promelas mg/L LC50 flow-through 53: 96 h Lepomis macrochirus mg/L LC50 static 1.8 - 2.4: 96 h Oncorhynchus mykiss mg/L LC50 static 39.8 - 46.8: 96 h Pimephales promelas mg/L LC50

Persistence and degradability

No information available.

Bioaccumulation

There is no data for this product.

Chemical name	Partition coefficient
Ethyl alcohol	-0.32
64-17-5	
VANILLIN	1.23
121-33-5	
ACETALDEHYDE	0.5
75-07-0	

Other adverse effects

No information available.

13. Disposal considerations

Waste treatment

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.
US EPA Waste Number	D001, U001 U125 U153
California Hazardous Waste Status	This product contains one or more substances that are listed with the State of California as a hazardous waste.

14. Transport information

DOT/ADR UN/ID No Proper shipping name Transport hazard class(es) Packing Group Emergency Response Guide Number	1197 EXTRACTS, FLAVOURING, LIQUID 3 III 127
ICAO/IATA UN number or ID number Proper shipping name Transport hazard class(es) Packing group ERG Code	1197 EXTRACTS, FLAVOURING, LIQUID 3 III 127
IMDG / IMO UN number or ID number Proper shipping name Transport hazard class(es) Packing Group	1197 EXTRACTS, FLAVOURING, LIQUID 3 III

15. Regulatory information

International Inventories

TSCA

Contact supplier for inventory compliance status.

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.
AIIC	Contact supplier for inventory compliance status.
NZIOC	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

AIIC - Australian Inventory of Industrial Chemicals

NZIOC - New Zealand Inventory of Chemicals

U.S. Federal Regulations

<u>SARA 313</u>

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.

Chemical name	SARA 313 - Threshold Values %
ACETALDEHYDE - 75-07-0	0.1

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).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
ACETALDEHYDE 75-07-0	1000 lb	-	-	Х

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.

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	Reportable Quantity (RQ)
ACETALDEHYDE 75-07-0	1000 lb	-	RQ 1000 lb final RQ RQ 454 kg final RQ

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals: Ethyl alcohol is only considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage

Chemical name	California Proposition 65	
Ethyl alcohol - 64-17-5	Carcinogen	
	Developmental	
ACETALDEHYDE - 75-07-0	Carcinogen	

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
PROPYLENE GLYCOL 57-55-6	X	-	X
Ethyl alcohol 64-17-5	Х	X	Х
BENZYL ALCOHOL 100-51-6	-	X	Х
ISOVALERALDEHYDE 590-86-3	Х	X	Х
BUTYRIC ACID 107-92-6	Х	X	Х
ISOVALERIC ACID 503-74-2	Х	X	-
ACETIC ACID 64-19-7	Х	X	Х
ACETYL METHYL CARBINOL 513-86-0	Х	-	-
FURFURAL	Х	X	Х

EC No (EU Index No)

This safety data sheet was created pursuant to the requirements of:

98-01-1			
METHYL N-AMYL KETONE FCC (2-Heptanone) 110-43-0	Х	Х	Х
ACETALDEHYDE 75-07-0	Х	Х	Х
DIMETHYL SULFIDE 75-18-3	Х	Х	Х
ISOBUTYRALDEHYDE 78-84-2	Х	Х	Х
METHYL MERCAPTAN 74-93-1	Х	Х	Х

U.S. EPA Label information

EPA Pesticide Registration Number Not applicable

16. Other information					
NFPA HMIS	Health hazards 2 Health hazards 2			Instability 0 Physical hazards 0	Special hazards - Personal protection X
Abbreviations, ac Legend Section a TWA:	ronyms 8: EXPOSURE CONTROL Time weighted average		ECTION TEL:	Short term expo	sure limit
Ceiling:	Maximum limit value:	*		Skin designation	
Agency for Toxic S U.S. Environmenta European Food Sa EPA (Environmenta Acute Exposure G U.S. Environmenta U.S. Environmenta Food Research Jo Hazardous Substa International Unifo National Institute of Australia National NIOSH (National In National Library of National Library of National Library of National Toxicolog New Zealand's Ch Organization for E	Ince Database rm Chemical Information E of Technology and Evaluati Industrial Chemicals Notifin Institute for Occupational S Medicine's ChemID Plus (Medicine's PubMed datability Program (NTP) emical Classification and I conomic Co-operation and conomic Co-operation and conomic Co-operation and	Registry (ATSDR) nView Database)) ral Insecticide, Fungicic Production Volume Che Database (IUCLID) ion (NITE) ication and Assessmen Safety and Health) (NLM CIP) base (NLM PUBMED) Information Database (Development Environi Development High Pro	de, and Roc emicals t Scheme (I CCID) ment, Healt oduction Vo	NICNAS) h, and Safety Publicatio lume Chemicals Progra	
Revision Date Revision Note		ov-2022 nformation available.			

Revision Note WARNING/DISCLAIMER:

Our ingredients have not been tested, nor have they been determined safe, for inhalation or use in any electronic smoking devices, electronic nicotine delivery systems, electronic cigarettes, or other similar devices (collectively "E-Cigarettes") or in any E-Liquids used with E-Cigarettes. By receiving Apex Flavors, Inc ingredients, the recipient confirms that they will not use these ingredients in connection with the manufacture and distribution of E-Cigarettes, E-Liquids or any component thereof. WE DISCLAIM, TO THE FULLEST EXTENT PERMITTED BY LAW, ALL WARRANTIES, EXPRESS OR IMPLIED, and disclaim all liability in connection with the use of our ingredients in connection with E-Cigarettes and E-Liquids. All such risks are assumed by you and the user.

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.

EC No (EU Index No) This safety data sheet was created pursuant to the requirements of:

End of Safety Data Sheet