APEX FLAVORS, INC.



SAFETY DATA SHEET.

This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision Date 29-Oct-2019 Version 1

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE **COMPANY/UNDERTAKING**

1.1. Product identifier

538BEV, 538TTB Product Code(s)

Product name FRESH CUCUMBER FLAVOR, NATURAL WONF

Pure substance/mixture Mixture

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

Recommended Use Ingredient for further processing

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Apex Flavors, Inc. Manufacturer

1361 Brass Mill Rd.

Suite E

Belcamp, MD 21017 (410) 565-6600

For further information, please contact:

E-mail Address cpisano@apexflavors.com

1.4. Emergency telephone number

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

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Serious eye damage/eye irritation	Category 2 - (H319)
Carcinogenicity	Category 1A - (H350)
Flammable liquids	Category 3 - (H226)

2.2. Label elements

Product identifier





Signal Word Danger

Hazard Statements

H319 - Causes serious eye irritation

H350 - May cause cancer

H226 - Flammable liquid and vapor

Precautionary Statements - EU (§28, 1272/2008)

P201 - Obtain special instructions before use

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P370 + P378 - In case of fire: Use .? to extinguish

2.3. Other information

No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical Name	EC-No	CAS-No	Weight %	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
PROPYLENE GLYCOL	200-338-0	57-55-6	50-90%	No data available	No data available
ETHYL ALCOHOL	200-578-6	64-17-5	30-50%	Flam. Liq. 2 (H225) Eye Irrit. 1 (H319)	No data available
ETHYL ACETATE	Present	141-78-6	<1%	Eye Irrit. 1 (H319) (EFFA) Flam. Liq. 2 (H225) (EFFA) Eye Irrit. 1 (H319) (EUH066) Flam. Liq. 2 (H225) STOT SE 3 (H336) Eye Irrit. 2 (H319)	No data available
ACETIC ACID	200-580-7	64-19-7	<1%	Skin Corr. 1A (314) Eye Dam. 1 (H318) Flam. Liq. 3 (H226)	No data available

For the full text of the R-phrases mentioned in this Section, see Section 16

Full text of H- and EUH-phrases: see section 16

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation Move to fresh air.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Ingestion Clean mouth with water and drink afterwards plenty of water.

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

Main Symptoms No information available.

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

Note to physicians

Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

No information available

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Ensure adequate ventilation.

For emergency responders

Use personal protection recommended in Section 8.

6.2. Environmental precautions

Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning upTake up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections

See section 8 for more information. See section 13 for more information.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling

Ensure adequate ventilation.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions

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

Incompatible products

None known based on information supplied.

7.3 Specific end use(s)

Risk Management Methods (RMM)

The information required is contained in this Material Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

S7-55-6	Chemical Name	European Union	The United Kingdom	France	Spain	Germany
TWA: 150 ppm TWA: 474 mg/m³ TWA: 10 mg/m³	PROPYLENE GLYCOL	-	STEL: 450 ppm STEL:	=	=	=
TWA: 150 ppm TWA: 474 mg/m³ TWA: 100 mg/m³	57-55-6		1422 mg/m ³ STEL: 30			
BETHYL ALCOHOL 64-17-5						
ETHYL ALCOHOL STEL: 3000 ppm STEL: 5760 mg/m³ TWA: 1000 ppm TWA: 1920 mg/m³ VLA-ED: 1910 mg/m³ VLA-ED:			TWA: 150 ppm TWA:			
ETHYL ALCOHOL 64-17-5			474 mg/m³ TWA: 10			
STEL: 5760 mg/m³ 1900 mg/m³ VLA-ED: 1910 mg/m			mg/m³			
STEL: 5760 mg/m³ 1900 mg/m³ VLA-ED: 1910 mg/m	ETHYL ALCOHOL	-	STEL: 3000 ppm	VME: 1000 ppm VME:	VLA-ED: 1000 ppm	-
1920 mg/m³	64-17-5		STEL: 5760 mg/m ³		VLA-ED: 1910 mg/m ³	
1920 mg/m³			TWA: 1000 ppm TWA:			
ETHYL ACETATE STEL: 400 ppm						
ACETIC ACID ACETIC ACID G4-19-7 TWA: 200 ppm TWA: 200 pp	ETHYL ACETATE	-	STEL: 400 ppm		TWA: 400 ppm TWA:	=
ACETIC ACID 64-19-7 TWA 10 ppm TWA 25 mg/m³ VLA-EC: 15 ppm	-					
Chemical Name Italy Portugal The Netherlands Finland TWA: 1000 ppm VLA-ED: 25 mg/m³ VLA-ED:		TWA 10 ppm TWA 25	-			-
Chemical Name Italy Portugal The Netherlands Finland Denmark					VI A-FC: 37 mg/m ³	
Chemical Name		9,		_==g,		
Chemical Name Italy						
ETHYL ALCOHOL 64-17-5	Chemical Name	Italy	Portugal	The Netherlands		Denmark
Chemical Name		italy				
TWA: 260 mg/m³ STEL: 1300 ppm STEL: 2500 mg/m³ STEL: 2500 mg/m³ STEL: 2500 mg/m³ STEL: 2500 mg/m³ STEL: 500 ppm TWA: 1100 mg/m³ STEL: 500 ppm STEL: 1800 mg/m³ STEL: 500 ppm STEL: 1800 mg/m³ STEL: 1000 m		_	1 VVA. 1000 ppin			
STEL: 2500 mg/m³ TWA: 150 ppm TWA: 1100 mg/m³ STEL: 500 ppm STEL: 1800 mg/m³ STEL: 500 ppm STEL: 1800 mg/m³ STEL: 500 ppm STEL: 1800 mg/m³ STEL: 100 mg/m³ STEL:	04-17-3					1900 1119/1115
ETHYL ACETATE 141-78-6				1 WA. 200 mg/m		
141-78-6	ETINA ACETATE		TIMA 400			T)A/A 450 T)A/A
ACETIC ACID - STEL: 15 ppm TWA: 10 ppm TWA: 25 mg/m³ TWA: 10 ppm TWA: 25 mg/m³ STEL: 10 ppm STEL: 25 mg/m³ STEL: 10 ppm STEL: 25 mg/m³ STEL: 10 ppm STEL: 25 mg/m³ STEL: 37.5 ppm STEL: 37.	-	-	T VVA: 400 ppm	-		
ACETIC ACID - STEL: 15 ppm - TWA: 5 ppm TWA: 13 mg/m³ STEL: 10 ppm STEL: 25 mg/m³ STEL: 37.5 ppm TWA: 470 mg/m³ STEL: 37.5 ppm STEL: 37.5 ppm STEL: 37.5 ppm STEL: 118.5 mg/m³ STEL: 625 ppm STEL: 1900 mg/m³ STEL: 1920 mg/m³ STEL: 625 ppm STEL: 187.5 pg/m³ STEL: 400 ppm STEL: 2800 mg/m³ TWA: 200 mg/m³ STEL: 187.5 ppm STEL: 400 ppm STEL: 2800 mg/m³ TWA: 200 mg/m³ STEL: 887.5 mg/m³ STEL: 400 ppm STEL: 50 mg/m³ STEL: 20 ppm STEL: 55 mg/m³ STEL: 20 p	141-78-6				OTEL 500 mg/m ²	540 mg/m ³
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Chemical Name	105510 1015					
Chemical Name		-		-		
Chemical Name Austria Switzerland Poland Norway Ireland PROPYLENE GLYCOL 57-55-6 - - - TWA: 25 ppm TWA: 79 mg/m³ STEL: 37.5 ppm STEL: 37.5 ppm STEL: 118.5 mg/m³ TWA: 150 ppm TWA: 470 mg/m³ TWA: 10 mg/m³ ETHYL ALCOHOL 64-17-5 STEL 2000 ppm STEL 3800 mg/m³ MAK: 1000 ppm MAK: 1900 mg/m³ STEL: 1920 mg/m³ STEL: 1920 mg/m³ TWA: 500 ppm TWA: 950 mg/m³ STEL: 625 ppm STEL: 1187.5 mg/m³ TWA: 1000 ppm TWA: 1900 mg/m³ STEL: 625 ppm STEL: 1187.5 mg/m³ TWA: 200 ppm TWA: 150 ppm TWA: 1900 mg/m³ STEL: 625 ppm STEL: 1187.5 ppm STEL: 200 mg/m³ STEL: 680 mg/m³ STEL: 687.5 mg/m³ TWA: 200 mg/m³ STEL: 687.5 mg/m³ STEL: 687.5 mg/m³ TWA: 200 mg/m³ STEL: 687.5 mg/m³ STEL: 687.5 mg/m³ TWA: 10 ppm TWA:	64-19-7		TWA: 10 ppm			25 mg/m³
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STEL: 37.5 ppm STEL: 118.5 mg/m³ STEL: 1		-	-	-		
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ma/m³ ma/m³ 37.5 ma/m³ 37.5 ma/m³ 37 ma/m³		MAK: 10 ppm MAK: 25	MAK: 10 ppm MAK: 25			
		mg/m ³	mg/m³		37.5 mg/m ³	37 mg/m ³

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration No information available.

(PNEC)

8.2. Exposure controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Tightly fitting safety goggles. Eve/face protection Skin and body protection Long sleeved clothing.

Respiratory protection NIOSH/MSHA approved respiratory protection is required to be worn.

Environmental Exposure Controls No information available.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

liquid Physical state **Appearance** clear

Aroma characteristic of cucumber green

Color colorless

Property Method Values

рΗ No information available Melting/freezing point

No information available

Boiling point/boiling range FCC Method 24 °C / 75 °F **Flash Point** Closed cup

FCC Method

Evaporation rate Flammability (solid, gas) No information available

Flammability Limits in Air

Upper flammability limit No information available

lower flammability limit No information available Vapor pressure mm Hg 20°C No information available

Vapor density No information available Relative density No information available

Specific Gravity @ 25C **FCC Method** 0.9376 - 0.9676 Specific Gravity @ 20C FCC Method

Refractive Index 1.3850 - 1.4050 FCC Method

Water solubility No information available Solubility in other solvents No information available Partition coefficient: n-octanol/water No information available

Autoignition temperature No information available **Decomposition temperature** No information available Viscosity, kinematic No information available No information available

Viscosity, dynamic **Explosive properties** No information available

Oxidizing Properties No information available

9.2. Other information

No information available Softening point **Molecular Weight** No information available **VOC Content(%)** No information available **Density VALUE** No information available **Bulk Density VALUE** No information available

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

Explosion data

Sensitivity to Mechanical Impact none. Sensitivity to Static Discharge none.

10.3. Possibility of hazardous reactions

Hazardous Reactions

None under normal processing.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

None under normal use conditions.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

Product Information

Product does not present an acute toxicity hazard based on known or supplied information.

InhalationThere is no data available for this product.Eye contactThere is no data available for this product.Skin contactThere is no data available for this product.IngestionThere is no data available for this product.

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

 ATEmix (oral)
 12,412.00 mg/kg

 ATEmix (dermal)
 20,256.70 mg/kg

 ATEmix (inhalation-dust/mist)
 69,314.00 mg/l

Unknown Acute Toxicity

98.4% of the mixture consists of ingredient(s) of unknown toxicity.

2 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

35.95 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity. 98.4 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

96.4 % of the mixture consists of ingredient(s) of unknown acute initialation toxicity (gas).

98.4 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).

64.45 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Oral LD50

Chemical Name	Oral LD50	Dermal LD50	LC50 Inhalation
PROPYLENE GLYCOL	20000 mg/kg (Rat)	20800 mg/kg (Rabbit)	
ETHYL ALCOHOL	7060 mg/kg (Rat)		124.7 mg/L (Rat) 4 h

Skin corrosion/irritationNo information available.

Eye damage/irritation No information available.

No information available. Sensitization

Germ Cell Mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

Specific target organ systemic

toxicity (single exposure)

No information available.

Specific target organ systemic

toxicity (repeated exposure)

No information available.

Target Organ Effects Blood, Central nervous system, Eyes, Liver, Reproductive system, Respiratory system,

Skin.

No information available. **Aspiration hazard**

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity Toxic to aquatic life

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
PROPYLENE GLYCOL	19000: 96 h Pseudokirchneriella subcapitata mg/L EC50	51600: 96 h Oncorhynchus mykiss mg/L LC50 static 41 - 47: 96 h Oncorhynchus mykiss mL/L LC50 static 51400: 96 h Pimephales promelas mg/L LC50 static 710: 96 h Pimephales promelas mg/L LC50	10000: 24 h Daphnia magna mg/L EC50 1000: 48 h Daphnia magna mg/L EC50 Static
ETHYL ALCOHOL	-	12.0 - 16.0: 96 h Oncorhynchus mykiss mL/L LC50 static 100: 96 h Pimephales promelas mg/L LC50 static 13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through	9268 - 14221: 48 h Daphnia magna mg/L LC50 10800: 24 h Daphnia magna mg/L EC50 2: 48 h Daphnia magna mg/L EC50 Static
ETHYL ACETATE	3300: 48 h Desmodesmus subspicatus mg/L EC50	220 - 250: 96 h Pimephales promelas mg/L LC50 flow-through 484: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 352 - 500: 96 h Oncorhynchus mykiss mg/L LC50 semi-static	560: 48 h Daphnia magna mg/L EC50 Static
ACETIC ACID	-	75: 96 h Lepomis macrochirus mg/L LC50 static 79: 96 h Pimephales promelas mg/L LC50 static	47: 24 h Daphnia magna mg/L EC50 65: 48 h Daphnia magna mg/L EC50 Static

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

Chemical Name	log Pow
ETHYL ALCOHOL	-0.32

	-
ETHYL ACETATE	0.6
ACETIC ACID	-0.31

12.4. Mobility in soil

Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

No information available

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues / unused

products

Dispose of in accordance with local regulations.

Contaminated packaging Empty remaining contents.

Section 14: TRANSPORT INFORMATION

IMDG / IMO

14.1 UN/ID No 1197

14.2 Proper shipping name EXTRACTS, FLAVOURING, LIQUID

14.3 Hazard class 3 14.4 Packing Group III

DOT/ADR/RID

14.1 UN/ID No 1197

14.2 Proper shipping name EXTRACTS, FLAVOURING, LIQUID

14.3 Hazard class 3 14.4 Packing Group III

ICAO/IATA

14.1 UN/ID No 1197

14.2 Proper shipping name EXTRACTS, FLAVOURING, LIQUID

14.3 Hazard class314.4 Packing GroupIII

14.5 Environmental hazard Not applicable

14.6 Special Provisions None

Section 15: REGULATORY INFORMATION

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

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

International Inventories

TSCA DSL/NDSL EINECS/ELINCS ENCS IECSC KECL PICCS AICS -

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

15.2. Chemical safety assessment

No information available

Section 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of R-phrases referred to under sections 2 and 3

No information available

Full text of H-Statements referred to under section 3

EUH066 - Repeated exposure may cause skin dryness or cracking

H225 - Highly flammable liquid and vapor

H226 - Flammable liquid and vapor

H318 - Causes serious eye damage

H319 - Causes serious eye irritation

H336 - May cause drowsiness or dizziness

Legend

SVHC: Substances of Very High Concern for Authorization:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

538BEV, 538TTB FRESH CUCUMBER FLAVOR, NATURAL WONF

Revision Date 29-Oct-2019

TWA: Time weighted average STEL: Short term exposure limit

Ceiling: Maximum limit value: * Skin designation

Revision Date 29-Oct-2019

Reason for revision: Not applicable.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

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