# SAFETY DATA SHEET.



Version 1.01

# **1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

# 1.1. Product identifier

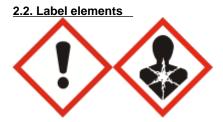
Reach Registration Number Number EC-No CAS-No FEMA Numbers	NA 045, 045TTB, 045BEV, 045COF NA NA NA		
Manufacturer	Apex Flavors, Inc. 1361 Brass Mill Rd. Suite E Belcamp, MD 21017 (410) 565-6600		
Product name Pure substance/mixture	CHOCOLATE TYPE, NATURAL FLAVOR BLEND Mixture		
1.2. Relevant identified uses of the	substance or mixture and uses advised against		
Recommended Use	No information available		
1.3. Details of the supplier of the sa	fety data sheet		
For further information, please contact:			
E-mail Address	cpisano@apexflavors.com		
1.4. Emergency telephone number			
Emergency telephone	Chemtrec: 1-800-424-9300 for US/ Outside US Chemtel 813-248-0585		

# 2. HAZARDS IDENTIFICATION

# 2.1. Classification of the substance or mixture

Acute inhalation toxicity - dust/mist	Category 4
Carcinogenicity	Category 1A
Acute aquatic toxicity	Category 3
Flammable liquids	Category 4

Classification according to EU Directives 67/548/EEC or 1999/45/EC For the full text of the R-phrases mentioned in this Section, see Section 16



# Signal Word

Danger

### **Hazard Statements**

H332 - Harmful if inhaled H350 - May cause cancer H402 - Harmful to aquatic life

# H227 - Combustible liquid

# Precautionary Statements

P201 - Obtain special instructions before use

P281 - Use personal protective equipment as required

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

P403 + P235 - Store in a well-ventilated place. Keep cool

P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction

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

P280 - Wear protective gloves/ eye protection/ face protection

### 2.3. Other information

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

### 3.1 Substances

Chemical Name	EC-No	CAS-No	Alternate CAS #	Weight %	Classificatio n according to Directive 67/548/EEC or 1999/45/EC		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		1-5%	F; R11	Flam. Liq. 2 (H225) Flam. Liq. 2 (H225)	No data available

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

# **4. FIRST AID MEASURES**

# 4.1. Description of first aid measures

General advice	If symptoms persist, call a physician		
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes Keep eye wide open while rinsing If symptoms persist, call a physician		
Skin contact	Immediate medical attention is not required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.		
Ingestion	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician. Do NOT induce vomiting.		
Inhalation	Immediate medical attention is not required. If symptoms persist, call a physician. Move to fresh air in case of accidental inhalation of vapors or decomposition products.		
Self-protection of the first aider	Use personal protective equipment		
4.2. Most important symptoms and effects, both acute and delayed			

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

#### Note to physicians Treat symptomatically

# 5. FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing media

#### Suitable Extinguishing Media

Use Dry chemical Carbon dioxide CO2 Water spray Alcohol-resistant foam

Extinguishing media which shall not be used for safety reasons No information available

5.2. Special hazards arising from the substance or mixture

Special Hazard None

#### 5.3. Advice for firefighters

#### Special protective equipment for fire-fighters

As in any fire, wear self-contained breathing apparatus and full protective gear

# 6. ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharges.

See Section 12 for additional Ecological Information

#### 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

#### 6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust)

# 7. HANDLING AND STORAGE

# 7.1. Precautions for safe handling

Use only in area provided with appropriate exhaust ventilation. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from heat, sparks and open flame. No smoking. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).

#### 7.2. Conditions for safe storage, including any incompatibilities

Keep away from heat and sources of ignition. Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Keep in properly labeled containers.

7.3 Specific end use(s)	
Exposure scenario	N/A
Other Guidelines	N/A

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

**Exposure limits** 

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

Chemical Name	European Union	The United Kingdom	France	Spain	Germany
PROPYLENE GLYCOL 57-55-6		STEL: 450 ppm STEL: 1422 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup> TWA: 150 ppm TWA: 474 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>			
Ethyl alcohol 64-17-5		STEL: 3000 ppm STEL: 5760 mg/m <sup>3</sup> TWA: 1000 ppm TWA: 1920 mg/m <sup>3</sup>	VME: 1000 ppm VME: 1900 mg/m <sup>3</sup> VLCT: 5000 ppm VLCT: 9500 mg/m <sup>3</sup>	VLA-ED: 1000 ppm VLA-ED: 1910 mg/m <sup>3</sup>	MAK: 500 ppm MAK: 960 mg/m <sup>3</sup> Ceiling / Peak: 1000 ppm Ceiling / Peak: 1920 mg/m <sup>3</sup> Skin TWA: 500 ppm TWA: 960 mg/m <sup>3</sup>

Chemical Name	Italy	Portugal	The Netherlands	Finland	Denmark
Ethyl alcohol		TWA: 1000 ppm	Skin	TWA: 1000 ppm TWA:	TWA: 1000 ppm TWA:
64-17-5			STEL: 1900 mg/m <sup>3</sup>	1900 mg/m <sup>3</sup>	1900 mg/m <sup>3</sup>
			TWA: 260 mg/m <sup>3</sup>	STEL: 1300 ppm	_
			_	STEL: 2500 mg/m <sup>3</sup>	

Chemical Name	Austria	Sweden - Occupational Exposure Limits - TLVs (LLVs)	Switzerland	Poland	Norway
PROPYLENE GLYCOL 57-55-6					TWA: 25 ppm TWA: 79 mg/m <sup>3</sup> STEL: 37.5 ppm STEL: 118.5 mg/m <sup>3</sup>
Ethyl alcohol 64-17-5	STEL 2000 ppm STEL 3800 mg/m <sup>3</sup> MAK: 1000 ppm MAK: 1900 mg/m <sup>3</sup>	500 ppm NGV 1000 mg/m <sup>3</sup> NGV	STEL: 1000 ppm STEL: 1920 mg/m <sup>3</sup> MAK: 500 ppm MAK: 960 mg/m <sup>3</sup>	NDS: 1900 mg/m <sup>3</sup>	TWA: 500 ppm TWA: 950 mg/m <sup>3</sup> STEL: 625 ppm STEL: 1187.5 mg/m <sup>3</sup>

Component	Ireland
PROPYLENE GLYCOL 57-55-6 ( 50-90% )	TWA: 150 ppm TWA: 470 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>
Ethyl alcohol 64-17-5 ( 1-5% )	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>

Derived No Effect Level (DNEL)

No information available

Predicted No Effect Concentration No information available (PNEC)

 8.2. Exposure controls
 Engineering Controls

 Engineering Controls
 Ensure adequate ventilation, especially in confined areas

 Personal protective equipment
 Tightly fitting safety goggles

 Eye Protection
 Tightly fitting safety goggles

 Hand Protection
 Protective gloves

Skin and body protection Respiratory protection	Long sleeved clothing Chemical resistant apron Antistatic boots Impervious gloves When workers are facing concentrations above the exposure limit they must use appropriate certified respirators
General Hygiene Considerations	When using, do not eat, drink or smoke Provide regular cleaning of equipment, work area and clothing
Environmental Exposure Controls	No information available

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# 9.1. Information on basic physical and chemical properties

Physical state Odor	liquid Chocolate		Appearance Color	clear brown
Property pH Melting/freezing poin Boiling point/boiling Flash Point Evaporation rate Flammability (solid, g Flammability Limits i Upper flammability lower flammability	range gas) n Air <sup>,</sup> limit	<u>Values</u> 67 °C / 152 °F	Method_ No information available No information available FCC Method Closed cup FCC Method No information available No information available	
Vapor pressure mm l Vapor density Relative density Specific Gravity @ 29 Specific Gravity @ 20 Refractive Index Water solubility Partition coefficient: Autoignition tempera Decomposition temp Viscosity, dynamic	Hg 20°C 5C 0C n-octanol/wate iture	1.026 - 1.046 1.029 - 1.049 1.407 - 1.427	No information available No information available No information available FCC Method FCC Method FCC Method No information available No information available No information available No information available No information available	
Explosive properties Oxidizing Properties		No information available No information available		
9.2. Other informatio	<u>n</u>			
VOC Content(%) Molecular Weight		72.0215026973747 No information available		

# **10. STABILITY AND REACTIVITY**

### 10.1. Reactivity

### 10.2. Chemical stability

Stable under normal conditions

### 10.3. Possibility of hazardous reactions

### 10.4. Conditions to avoid

Heat, flames and sparks

### 10.5. Incompatible materials

No materials to be especially mentioned

### 10.6. Hazardous decomposition products

None under normal use conditions

# **11. TOXICOLOGICAL INFORMATION**

# 11.1. Information on toxicological effects

Acute toxicity		
Inhalation	There is no data available for this product	
Eye contact	There is no data available for this product	
Skin contact	There is no data available for this product	
Ingestion	There is no data available for this product	
Acute toxicity	25.0643% of the mixture consists of ingredient(s) of unknown toxicity	
The following values are calculated based on chapter 3.1 of the GHS document (Rev. 1, 2005):		

Oral	16,007.00 mg/kg
Dermal	21,088.00 mg/kg

Mist

4.17 mg/l

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/irritation Eye damage/irritation Sensitization Germ Cell Mutagenicity Carcinogenicity	No information available No information available No information available No information available 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 syste	em Eyes Liver Reproductive sys	tem Respiratory system Skir
Aspiration hazard	No information available		

# **12. ECOLOGICAL INFORMATION**

### 12.1. Toxicity

**Ecotoxicity effects** 

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants

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

### 12.2. Persistence and degradability

No information available

#### 12.3. Bioaccumulative potential

No information available

Chemical Name	log Pow
Ethyl alcohol	-0.32

# 12.4. Mobility in soil

No information available

# 12.5. Results of PBT and vPvB assessment

### 12.6. Other adverse effects

13. DISPOSAL CONSIDERATIONS		
13.1. Waste treatment methods		
Waste from residues / unused products	Dispose of in accordance with local regulations	
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal	
14. TRANSPORT INFORMATION		
DOT	Not regulated	
IMDG / IMO	Not regulated	
ICAO/IATA	Not regulated	

# 15. REGULATORY INFORMATION

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

#### **WGK Classification**

Chemical Name	Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes
PROPYLENE GLYCOL 57-55-6	Hazard Class 1
Ethyl alcohol 64-17-5	Hazard Class 1

#### International Inventories

All of the components in the product are on the following Inventory lists: Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Australia (AICS), China (IECSC), Philippines (PICCS).

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

Legend

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

#### 15.2. Chemical safety assessment

# **16. OTHER INFORMATION**

### Full text of H-Statements referred to under sections 2 and 3

H225 - Highly flammable liquid and vapor

Revision Date	11-May-2016
Revision Note	Not applicable.
Revision#	1.01

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.

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