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

Sep-2019 Version 5

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

#### 1.1. Product identifier

Product Code(s) 061TTB

Product name

BUTTERSCOTCH TYPE, NATURAL & ARTIFICIAL (CONTAINS < 0.10% ARTIFICIAL TOP NOTE)

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

Manufacturer Apex Flavors, Inc.

1371 Brass Mill Rd.

Suite A

Belcamp, MD 21017 (410) 565-6600

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/ 703-527-3887 outside US

## **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

Contains ETHYL ALCOHOL



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

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

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

#### 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	30-50%	No data available	No data available
ETHYL ALCOHOL	200-578-6	64-17-5	20-30%	Flam. Liq. 2 (H225) Eye Irrit. 1 (H319)	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 up**Take 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

Chemical Name	European Union	The United Kingdom	France	Spain	Germany
PROPYLENE GLYCOL	-	STEL: 450 ppm STEL:	-	-	-
57-55-6		1422 mg/m <sup>3</sup> STEL: 30			
		mg/m³			
		TWA: 150 ppm TWA:			
		474 mg/m³ TWA: 10			
		mg/m³			
ETHYL ALCOHOL	-	STEL: 3000 ppm	VME: 1000 ppm VME:	VLA-ED: 1000 ppm	-
64-17-5		STEL: 5760 mg/m <sup>3</sup>	1900 mg/m <sup>3</sup>	VLA-ED: 1910 mg/m <sup>3</sup>	
		TWA: 1000 ppm TWA:	VLCT: 5000 ppm		
		1920 mg/m <sup>3</sup>	VLCT: 9500 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	Switzerland	Poland	Norway	Ireland
PROPYLENE GLYCOL	-	<u>-</u>	-	TWA: 25 ppm TWA:	TWA: 150 ppm TWA:
57-55-6				79 mg/m <sup>3</sup>	470 mg/m³ TWA: 10
				STEL: 37.5 ppm	mg/m³
				STEL: 118.5 mg/m <sup>3</sup>	
ETHYL ALCOHOL	STEL 2000 ppm STEL	STEL: 1000 ppm	NDS: 1900 mg/m <sup>3</sup>	TWA: 500 ppm TWA:	TWA: 1000 ppm TWA:
64-17-5	3800 mg/m <sup>3</sup>	STEL: 1920 mg/m <sup>3</sup>		950 mg/m <sup>3</sup>	1900 mg/m <sup>3</sup>
	MAK: 1000 ppm MAK:	MAK: 500 ppm MAK:		STEL: 625 ppm STEL:	
	1900 mg/m <sup>3</sup>	960 mg/m <sup>3</sup>		1187.5 mg/m <sup>3</sup>	

**Derived No Effect Level (DNEL)** No information available.

No information available. **Predicted No Effect Concentration** 

(PNEC)

8.2. Exposure controls

**Engineering Controls** Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

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

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

**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** 

butterscotch

Color pale to slightly yellow

**Property** Values Method

No information available No information available Melting/freezing point

Boiling point/boiling range FCC Method

Flash Point 32 °C / 90 °F Closed cup **Evaporation rate** FCC Method

Flammability (solid, gas) No information available

Flammability Limits in Air **Upper flammability limit** No information available No information available lower flammability limit No information available

Vapor pressure mm Hg 20°C Vapor density No information available

Relative density

No information available

 Specific Gravity @ 25C
 0.9711 - 0.9911
 FCC Method

 Specific Gravity @ 20C
 0.9741 - 0.9941
 FCC Method

 Refractive Index
 1.3868 - 1.4068
 FCC Method

Water solubilityNo information availableSolubility in other solventsNo information availablePartition coefficient: n-octanol/waterNo information availableAutoignition temperatureNo information availableDecomposition temperatureNo information availableViscosity, kinematicNo information available

Viscosity, dynamic No information available

Explosive properties No information available

**Explosive properties**No information available
No information available

#### 9.2. Other information

Softening point
Molecular Weight
VOC Content(%)
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 Yes.

## 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)
 8,773.00 mg/kg

 ATEmix (dermal)
 20,873.00 mg/kg

 ATEmix (inhalation-dust/mist)
 66,489.07 mg/l

**Unknown Acute Toxicity** 

99.8714% of the mixture consists of ingredient(s) of unknown toxicity.

29.1824 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
63.47278 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
99.8714 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

99.8714 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor). 70.98102 % 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/irritation**No information available.

**Eye damage/irritation** No information available.

**Sensitization** No information available.

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.

**Aspiration hazard** No information available.

## **Section 12: ECOLOGICAL INFORMATION**

12.1. Toxicity

**Ecotoxicity** Toxic to aquatic life

34.5889% 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
ł	PROPYLENE GLYCOL	19000: 96 h Pseudokirchneriella	51600: 96 h Oncorhynchus mykiss	10000: 24 h Daphnia magna mg/L
	THOT TELME GET GGE	subcapitata mg/L EC50	mg/L LC50 static 41 - 47: 96 h	EC50 1000: 48 h Daphnia magna
١			Oncorhynchus mykiss mL/L LC50	mg/L EC50 Static
١			static 51400: 96 h Pimephales	

		promelas mg/L LC50 static 710: 96 h Pimephales promelas mg/L LC50	
ETHYL ALCOHOL	•	mykiss mL/L LC50 static 100: 96 h	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

#### 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 class 3 14.4 Packing Group III

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 Complies
DSL/NDSL Complies
EINECS/ELINCS Complies
ENCS Complies
IECSC Complies
KECL -

PICCS Complies AICS Complies

Leaend:

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

H225 - Highly flammable liquid and vapor H319 - Causes serious eye irritation

SVHC: Substances of Very High Concern for Authorization:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Time weighted average TWA: Short term exposure limit STEL:

Ceiling: Maximum limit value: Skin designation

**Revision Date** 26-Sep-2019

Reason for revision: Not applicable.

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

#### **WARNING/DISCLAIMER:**

Apex Flavors, Inc.'s products are sold exclusively for use in food and drink for human consumption. These products have not been tested, nor have they been deemed safe, for inhalation or use in electronic smoking devices, electronic nicotine delivery systems, and electronic cigarettes or similar devices (collectively "E-Cigarettes"). In supplying this product(s), Apex Flavors, Inc. instructs, and purchasing recipient confirms, that this product(s) will not be used in connection with the manufacture and distribution of E-Cigarettes or any component thereof. Recipients of our products that use them outside of their intended use of food or drink do so at their own risk and without warranty, either expressed or implied, from Apex Flavors, Inc. or its suppliers. The user assumes all liability for loss,

injury, damage, or expense resulting from such uses.