# 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 22-Jan-2019 Version 1

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

1.1. Product identifier

Product Code(s) 711CBD

**Product name** PEANUT BUTTER TYPE, NATURAL FLAVOR BLEND (OIL SOLUBLE) #3269

Pure substance/mixture

Mixture Contains BENZYL ALCOHOL, FURFURAL

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

**Recommended Use** Ingredient for further processing

No information available Uses advised against

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:

cpisano@apexflavors.com E-mail Address

1.4. Emergency telephone number

Chemtrec: 1-800-424-9300 for US/ 703-527-3887 outside US Emergency telephone

# **Section 2: HAZARDS IDENTIFICATION**

### 2.1. Classification of the substance or mixture

REGULATION (EC) No 1272/2008

REGULATION (EC) NO 1272/2000	
Acute toxicity - Oral	Category 4 - (H302)
Acute toxicity - Inhalation (Gases)	Category 3 - (H331)
Acute toxicity - Inhalation (Vapors)	Category 3 - (H331)
Acute toxicity - Inhalation (Dusts/Mists)	Category 1 - (H330)
Serious eye damage/eye irritation	Category 2 - (H319)
Carcinogenicity	Category 2 - (H351)
Chronic aquatic toxicity	Category 3 - (H412)

#### 2.2. Label elements

**Product identifier** 

Contains BENZYL ALCOHOL, FURFURAL

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### Signal Word Danger

### **Hazard Statements**

H302 - Harmful if swallowed

H319 - Causes serious eye irritation

H330 - Fatal if inhaled

H351 - Suspected of causing cancer

H412 - Harmful to aquatic life with long lasting effects

Contains ACETYL PROPIONYL FCC (2,3 PENTANEDIONE) EUH208 - May produce an allergic reaction

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

P321 - Specific treatment (see .? on this label)

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P310 - Immediately call a POISON CENTER or doctor

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

P422 - Store contents under inert gas

P320 - Specific treatment is urgent (see .? on this label)

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

P273 - Avoid release to the environment

## 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
BENZYL ALCOHOL	202-859-9	100-51-6	15-20%	Acute Tox. 5 (H333) Acute Tox. 4 (H302)	No data available
FURFURAL	Present	98-01-1	1-5%	Acute Tox. 3 (H301) Carc. 2 (H351) (EFFA) Eye Irrit. 1 (H319) (EFFA) Skin Irrit. 2 (315) (EFFA) Acute Tox. 3 (H301) (EFFA) Acute Tox. 4 (H312)(EFFA) Flam. Liq. 4 (H227)(EFFA) Acute Tox. 3 (H331)(EFFA) Carc. 2 (H351) Eye Irrit. 1 (H319) Skin Irrit. 2 (H315) Acute Tox. 3 (H301) Acute Tox. 4 (H312) Acute Tox. 3 (H331) Acute Tox. 4 (H312) Skin Irrit. 2 (H315) STOT SE 3 (H335) Carc. 2 (H351) Acute Tox. 3 (H331) Acute Tox. 3 (H331) Eye Irrit. 2 (H319)	No data available
ACETYL PROPIONYL FCC (2,3 PENTANEDIONE)	209-984-8	600-14-6	<1%	STOT RE 2 (H373) (EFFA) Skin Sens. 1 (H317) (EFFA) Eye Dam. 1 (H318) (EFFA) Skin Irrit. 3 (316) (EFFA) Flam. Liq. 2	No data available

				(H225) (EFFA) Acute Tox. 5 (H303)(EFFA) Acute Tox. 5 (H313)(EFFA)	
BENZALDEHYDE	Present	100-52-7	<1%	Acute Tox. 4 (H302) Aquatic Acute 2 (H401) (EFFA) Eye Irrit. 1 (H319) (EFFA) Skin Irrit. 3 (316) (EFFA) Acute Tox. 4 (H302) (EFFA) Flam. Liq. 4 (H227)(EFFA) Acute Tox. 4 (H332)(EFFA) Aquatic Acute 2 (H401) Eye Irrit. 1 (H319) Skin Irrit. 3 (H316) Acute Tox. 4 (H302) Acute Tox. 4 (H332)	

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

General advice If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do

not get in eyes, on skin, or on clothing.

**Inhalation** Move to fresh air. Call a physician. If breathing is irregular or stopped, administer artificial

respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. 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.

**Skin contact**Consult a physician if necessary. Wash off immediately with soap and plenty of water while

removing all contaminated clothes and shoes. Immediate medical attention is not required.

If skin irritation persists, 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.

Ingestion Rinse mouth. Drink plenty of water. If symptoms persist, call a physician. Do NOT induce

vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything

by mouth to an unconscious person. Call a physician.

**Self-protection of the first aider**Use personal protective equipment.

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

#### Unsuitable extinguishing media

No information available

# 5.2. Special hazards arising from the substance or mixture

Keep product and empty container away from heat and sources of ignition Risk of ignition

#### 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**

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.

#### For emergency responders

Use personal protection recommended in Section 8.

#### 6.2. Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. 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. 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 Cover liquid spill with sand, earth or other noncombustible absorbent material. Cover

powder spill with plastic sheet or tarp to minimize spreading. Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. Dam up. Take

precautionary measures against static discharges.

#### 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

Avoid contact with skin, eyes and clothing. Use personal protective equipment as required. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. 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. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).

## **General Hygiene Considerations**

When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.

# 7.2. Conditions for safe storage, including any incompatibilities

#### **Storage Conditions**

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. 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.

### 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
FURFURAL	-	STEL: 5 ppm	STEL: 2 ppm	S*	-
98-01-1		STEL: 20 mg/m <sup>3</sup>	STEL: 8 mg/m <sup>3</sup>	TWA: 2 ppm	
		TWA: 2 ppm		TWA: 8 mg/m <sup>3</sup>	
		TWA: 8 mg/m <sup>3</sup>			
		Skin			
Chemical Name	Italy	Portugal	The Netherlands	Finland	Denmark
BENZYL ALCOHOL	-	-	-	TWA: 10 ppm TWA:	-
100-51-6				45 mg/m <sup>3</sup>	
FURFURAL	-	TWA: 2 ppm	-	TWA: 2 ppm	TWA: 2 ppm
98-01-1				TWA: 8 mg/m <sup>3</sup>	TWA: 7.9 mg/m <sup>3</sup>
				STEL: 5 ppm	Skin
				STEL: 20 mg/m <sup>3</sup>	
				Skin	
BENZALDEHYDE	-	-	=	TWA: 1 ppm	-
100-52-7				TWA: 4.4 mg/m <sup>3</sup>	
				STEL: 4 ppm	
				STEL: 17.4 mg/m <sup>3</sup>	
				Ceiling: 4 ppm	
				Ceiling: 17.4 mg/m <sup>3</sup>	
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
BENZYL ALCOHOL	-	-	NDS: 240 mg/m <sup>3</sup>	-	-
100-51-6					
FURFURAL	Skin	Skin	STEL: 25 mg/m <sup>3</sup>	TWA: 2 ppm	TWA: 2 ppm
98-01-1	TWA: 5 ppm	TWA: 2 ppm	TWA: 10 mg/m <sup>3</sup>	TWA: 8 mg/m <sup>3</sup>	TWA: 8 mg/m <sup>3</sup>
	TWA: 20 mg/m <sup>3</sup>	TWA: 8 mg/m <sup>3</sup>		Skin	STEL: 5 ppm
				STEL: 4 ppm	STEL: 20 mg/m <sup>3</sup>
251174125111725			0.751 10 10	STEL: 16 mg/m <sup>3</sup>	Skin
BENZALDEHYDE	-	-	STEL: 40 mg/m <sup>3</sup>	-	-
100-52-7			TWA: 10 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** Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

**Eye/face protection** Tightly fitting safety goggles.

Skin and body protection Long sleeved clothing. Chemical resistant apron. Antistatic boots. Impervious gloves.

**Environmental Exposure Controls** Do not allow material to contaminate ground water system.

# Section 9: PHYSICAL AND CHEMICAL PROPERTIES

## 9.1. Information on basic physical and chemical properties

Physical stateliquidAppearanceliquidOdorpeanut butterColorlight amber

<u>Property</u> <u>Values</u> <u>• Method</u>

pH No information available
Melting/freezing point No information available

Boiling point/boiling range FCC Method
Flash Point 80 °C / 176 °F Closed cup

Evaporation rate 80 C / 176 F Closed cup FCC Method

Flammability (solid, gas)

No information available

Flammability Limits in Air

Upper flammability limit

No information available

No information available

No information available

Vapor pressure mm Hg 20°CNo information availableVapor densityNo information availableRelative densityNo information available

Specific Gravity @ 25C0.9201 - 0.9501FCC MethodSpecific Gravity @ 20C0.9231 - 0.9531FCC MethodPatractive Index1.4646 - 1.4946FCC Method

Refractive Index 1.4646 - 1.4946 FCC Method

Water solubility FCC Method

No information available

Solubility in other solvents

Partition coefficient: n-octanol/water

Autoignition temperature

No information available
No information available

Decomposition temperatureNo information availableViscosity, kinematicNo information availableViscosity, dynamicNo information available

Explosive properties No information available Oxidizing Properties 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

Heat, flames and sparks.

# 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)
 896.00 mg/kg

 ATEmix (dermal)
 2,067.00 mg/kg

 ATEmix (inhalation-gas)
 643.10 ppm

 ATEmix (inhalation-dust/mist)
 0.04 mg/l

 ATEmix (inhalation-vapor)
 10.00 mg/l

**Unknown Acute Toxicity** 

97.55% of the mixture consists of ingredient(s) of unknown toxicity.

81.55 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

80.55 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

97.55 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

82.55 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).

82.55 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

#### Oral LD50

Chemical Name	Oral LD50	Dermal LD50	LC50 Inhalation
BENZYL ALCOHOL	1230 mg/kg (Rat)	2000 mg/kg (Rabbit)	8.8 mg/L (Rat) 4 h
FURFURAL	125 mg/kg (Rat)	500 - 1000 mg/kg (Rabbit)	175 ppm (Rat) 6 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 Eyes, Respiratory system, Skin.

**Aspiration hazard** No information available.

# **Section 12: ECOLOGICAL INFORMATION**

### 12.1. Toxicity

**Ecotoxicity** Harmful to aquatic life with long lasting effects

1.65% 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
BENZYL ALCOHOL	35: 3 h Anabaena variabilis mg/L	10: 96 h Lepomis macrochirus mg/L	23: 48 h water flea mg/L EC50
	EC50	LC50 static 460: 96 h Pimephales	
		promelas mg/L LC50 static	
FURFURAL	-	13.4 - 19.3: 96 h Pimephales	29: 24 h Daphnia magna mg/L
		promelas mg/L LC50 static 16.79 -	EC50
		26.35: 96 h Pimephales promelas	
		mg/L LC50 flow-through	
BENZALDEHYDE	-	10.6 - 11.8: 96 h Oncorhynchus	50: 24 h Daphnia magna mg/L
		mykiss mg/L LC50 flow-through	EC50
	12.69:		
	mg/L LC50 static 0.8 - 1.44: 96 h		
		Lepomis macrochirus mg/L LC50	
		flow-through 6.8 - 8.53: 96 h	
		Pimephales promelas mg/L LC50	
		flow-through 7.5: 96 h Lepomis	
		macrochirus mg/L LC50 static	

## 12.2. Persistence and degradability

No information available.

## 12.3. Bioaccumulative potential

No information available.

Chemical Name	log Pow
BENZYL ALCOHOL	1.1
FURFURAL	0.67
BENZALDEHYDE	1.48

# 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

Chemical Name	EU - Endocrine Disrupters	EU - Endocrine Disruptors -	Japan - Endocrine Disruptor
	Candidate List	Evaluated Substances	Information
FURFURAL	Group III Chemical	-	-

# **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.

application specific. Waste codes should be assigned by the user based on the application

for which the product was used.

# **Section 14: TRANSPORT INFORMATION**

ΙW	DG	, ,	IWI	( )

14.1 UN/ID NoNot regulated14.2 Proper shipping nameNot regulated14.3 Hazard classNot regulated14.4 Packing GroupNot regulated

#### DOT/ADR/RID

14.1UN/ID NoNot regulated14.2Proper shipping nameNot regulated14.3Hazard classNot regulated14.4Packing GroupNot regulated

# ICAO/IATA

14.1 UN/ID No
Not regulated
14.2 Proper shipping name
Not regulated
14.3 Hazard class
Not regulated
Not regulated
Not regulated
Not regulated
Not regulated
Not applicable
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

R22 - Harmful if swallowed

R21 - Harmful in contact with skin

R40 - Limited evidence of a carcinogenic effect

R20/22 - Harmful by inhalation and if swallowed

R23/25 - Toxic by inhalation and if swallowed

R36/37/38 - Irritating to eyes, respiratory system and skin

#### Full text of H-Statements referred to under section 3

H333 - May be harmful if inhaled

H302 - Harmful if swallowed

H401 - Toxic to aquatic life

H319 - Causes serious eye irritation

H227 - Combustible liquid

H332 - Harmful if inhaled

H316 - Causes mild skin irritation

H373 - May cause damage to organs through prolonged or repeated exposure if inhaled

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H225 - Highly flammable liquid and vapor

H303 - May be harmful if swallowed

H313 - May be harmful in contact with skin

H301 - Toxic if swallowed

H351 - Suspected of causing cancer if inhaled

H312 - Harmful in contact with skin

H331 - Toxic if inhaled

H315 - Causes skin irritation

H335 - May cause respiratory irritation

#### Legend

SVHC: Substances of Very High Concern for Authorization:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA: Time weighted average STEL: Short term exposure limit

Ceiling: Maximum limit value: \* Skin designation

Revision Date 22-Jan-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.

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