## APEX FLAVORS, INC.

## SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard (29 CFR 1910.1200) and Canada WHMIS 2015 which includes the amended Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR)

Revision date 07-Feb-2024 Revision Number 1

### 1. Identification

Product identifier

Product Name Donut Cake Type, Natural Flavor Blend

Other means of identification

Product Code(s) SC-ITEM 1227

UN number or ID number UN1197

Synonyms 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 Address**

Apex Flavors, Inc. 1361 Brass Mill Rd Suite E Belcamp, MD 21017-1239 United States (410) 565-6600

E-mail address sds@apexflavors.com

Emergency telephone number

**Company Phone Number** 410-565-6600

Emergency Telephone Chemtrec 1-800-424-9300

### 2. Hazard(s) identification

### Classification

Skin sensitization	Category 1
Carcinogenicity	Category 2
Specific target organ toxicity (single exposure)	Category 1 Category 3
Specific target organ toxicity (repeated exposure)	Category 1

#### Label elements



#### **Danger**

#### **Hazard statements**

May cause an allergic skin reaction.

Suspected of causing cancer.

Causes damage to organs.

May cause respiratory irritation. May cause drowsiness or dizziness.

Causes damage to organs through prolonged or repeated exposure.

#### **Precautionary Statements - Prevention**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear protective gloves, protective clothing, eye protection and face protection.

Contaminated work clothing must not be allowed out of the workplace.

Do not breathe dust, fume, gas, mist, vapors and spray.

Wash face, hands and any exposed skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

#### **Precautionary Statements - Response**

Specific treatment (see .? on this label).

IF exposed: Call a POISON CENTER or doctor.

#### Skin

IF ON SKIN: Wash with plenty of water and soap.

If skin irritation or rash occurs: Get medical advice and attention.

Wash contaminated clothing before reuse.

#### Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor if you feel unwell.

### **Precautionary Statements - Storage**

Store locked up.

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

### **Precautionary Statements - Disposal**

Dispose of contents and container to an approved waste disposal plant.

#### Other information

No information available.

## 3. Composition/information on ingredients

#### Substance

Not applicable.

#### Mixture

Ī	Chemical name	CAS No.	Weight-%	Hazardous Matorial	Date HMIRA filed and
	Chemical name	CAS NO.	VVEIGITE-70	Tiazai uous Materiai	Date Hilling Hied and
				Information Review	date exemption
				Act registry number	granted (if

ВΙ	en	d
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			(HMIRA registry #)	applicable)
PROPYLENE GLYCOL USP	57-55-6	80.00 - 95.00	-	-
FURFURAL	98-01-1	<1.00	-	-
ACETYL PROPIONYL FCC (2,3	600-14-6	<1.00	-	-
PENTANEDIONE)				

### 4. First-aid measures

#### **Description of first aid measures**

General advice Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get

medical advice/attention.

Inhalation Remove to fresh air. IF exposed or concerned: Get medical advice/attention.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If

symptoms persist, call a physician.

Skin contact Wash with soap and water. May cause an allergic skin reaction. Wash off immediately with

plenty of water for at least 15 minutes. If symptoms persist, call a physician.

Ingestion Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

person. Call a physician.

### Most important symptoms and effects, both acute and delayed

Itching. Rashes. Hives. Inhalation of high vapor concentrations may cause symptoms like **Symptoms** 

headache, dizziness, tiredness, nausea and vomiting.

**Effects of Exposure** Causes damage to organs. Causes damage to organs through prolonged or repeated

exposure.

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

Note to physicians May cause sensitization in susceptible persons. Treat symptomatically.

### 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

Product is or contains a sensitizer. May cause sensitization by skin contact.

**Explosion data** 

Sensitivity to mechanical impact None. Sensitivity to static discharge

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** Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required. Evacuate personnel to safe areas. Keep people away

from and upwind of spill/leak.

**Other information** Refer to protective measures listed in Sections 7 and 8.

#### 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** 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. Avoid contact with

skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Avoid breathing vapors or mists.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

### 8. Exposure controls/personal protection

# Control parameters Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
FURFURAL 98-01-1	TWA: 2 ppm S*	TWA: 5 ppm TWA: 20 mg/m³ (vacated) TWA: 2 ppm (vacated) TWA: 8 mg/m³ (vacated) S* S*	IDLH: 100 ppm

Chemical name	Alberta	British Columbia	Ontario	Quebec
PROPYLENE GLYCOL USP	-	-	TWA: 10 mg/m <sup>3</sup> TWA:	-
57-55-6			50 ppm TWA: 155	
			mg/m³	
FURFURAL	TWA: 2 ppm	TWA: 2 ppm	TWA: 2 ppm	TWA: 2 ppm
98-01-1	TWA: 7.9 mg/m <sup>3</sup>	Skin	Skin	TWA: 7.9 mg/m <sup>3</sup>
	Skin			Skin

#### **Appropriate engineering controls**

Engineering controls Showers

Eyewash stations Ventilation systems.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Hand protection** Wear suitable gloves.

**Skin and body protection** Wear suitable protective clothing.

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 Do not eat, drink or smoke when using this product. Wash hands before breaks and

immediately after handling the product.

### 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Liquid

Dynamic viscosity

Appearance No information available

Colorlight yellowOdorCake Donut

Odor threshold No information available

Property Values Remarks • Method No data available None known None known Melting point / freezing point No data available Initial boiling point and boiling No data available None known range Flash point 93 C. >200 F. None known **Evaporation rate** No data available None known Flammability No data available None known Flammability Limit in Air None known Upper flammability or explosive No data available limits Lower flammability or explosive No data available limits Vapor pressure No data available None known Relative vapor density No data available None known Relative density 0.9936 1.1006 None known Water solubility No data available None known Solubility(ies) No data available None known **Partition coefficient** No data available None known **Autoignition temperature** No data available None known No data available **Decomposition temperature** None known No data available Kinematic viscosity None known

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 **Liquid Density** No information available **Bulk density** No information available Specific Gravity @ 25C 0.9906 - 1.1006

 Specific Gravity @ 25C
 0.9906 - 1.1006

 Specific Gravity @ 20C
 0.9936 | 1.1036

 Refractive Index @ 20C
 1.4285 - 1.4485

### 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

#### **Product Information**

**Inhalation** May cause irritation of respiratory tract. May cause drowsiness or dizziness.

**Eye contact** Specific test data for the substance or mixture is not available.

Skin contact May cause sensitization by skin contact. Specific test data for the substance or mixture is

not available. Repeated or prolonged skin contact may cause allergic reactions with

susceptible persons. (based on components).

**Ingestion** None known.

#### Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Itching. Rashes. Hives. Inhalation of high vapor concentrations may cause symptoms like

headache, dizziness, tiredness, nausea and vomiting.

Acute toxicity .

**Numerical measures of toxicity** 

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

 ATEmix (oral)
 21,834.10 mg/kg

 ATEmix (dermal)
 22,707.40 mg/kg

 ATEmix (inhalation-gas)
 99,999.00 ppm

ATEmix (inhalation-vapor) 99,999.00 mg/l ATEmix (inhalation-dust/mist) 99,999.00 mg/l

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
PROPYLENE GLYCOL USP	20000 mg/kg (Rat)	20800 mg/kg (Rabbit)	-
57-55-6			
FURFURAL 98-01-1	125 mg/kg (Rat)	500 - 1000 mg/kg (Rabbit)	175 ppm (Rat)6 h
ACETYL PROPIONYL FCC (2,3 PENTANEDIONE) 600-14-6	3 g/kg (Rat)	2500 mg/kg (Rabbit)	-

#### 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** May cause an allergic skin reaction.

Germ cell mutagenicity No information available.

Carcinogenicity Contains a known or suspected carcinogen. Classification based on data available for

ingredients. Suspected of causing cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
FURFURAL	A3	Group 3	-	-
98-01-1				

#### Legend

**ACGIH (American Conference of Governmental Industrial Hygienists)** 

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans

**Reproductive toxicity** No information available.

STOT - single exposure Based on the classification criteria of the Globally Harmonized System as adopted in the

country or region with which this safety data sheet complies, this product has been determined to cause systemic target organ toxicity from acute exposure. (STOT SE). Causes damage to organs. May cause respiratory irritation. May cause drowsiness or

dizziness.

**STOT - repeated exposure**Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard No information available.

### 12. Ecological information

### **Ecotoxicity**

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
PROPYLENE GLYCOL USP	19000: 96 h	41 - 47: 96 h	-	1000: 48 h Daphnia
57-55-6	Pseudokirchneriella	Oncorhynchus mykiss		magna mg/L EC50
	subcapitata mg/L EC50	mL/L LC50 static		Static 10000: 24 h
		51400: 96 h Pimephales		Daphnia magna mg/L
		promelas mg/L LC50		EC50
		static 51600: 96 h		
		Oncorhynchus mykiss		
		mg/L LC50 static 710:		
		96 h Pimephales		
		promelas mg/L LC50		
FURFURAL	-	13.4 - 19.3: 96 h	-	29: 24 h Daphnia
98-01-1		Pimephales promelas		magna mg/L EC50
		mg/L LC50 static 16.79		
		- 26.35: 96 h		
		Pimephales promelas		
		mg/L LC50 flow-through		

Persistence and degradability

No information available.

### **Bioaccumulation**

**Component Information** 

Chemical name	Partition coefficient	
FURFURAL	0.67	
98-01-1		

Other adverse effects

No information available.

## 13. Disposal considerations

### **Disposal methods**

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.

## 14. Transport information

DOT

UN number or ID number UN1197

Proper shipping name Extracts, flavoring, liquid

Transport hazard class(es) Packing group Ш **DOT Marine Pollutant** NP

Description UN1197, Extracts, flavoring, liquid, 3, III

## SC-ITEM 1227 - Donut Cake Type, Natural Flavor Blend

Special Provisions B1, IB3, T2, TP1

Emergency Response Guide 127

Number

**TDG** 

UN number or ID number UN1197

UN proper shipping name Extracts, flavouring, liquid

Transport hazard class(es) 3
Packing group ||||

**Description** UN1197, Extracts, flavouring, liquid, 3, III

MEX

UN number or ID number UN1197

UN proper shipping name Extracts, flavouring, liquid

Transport hazard class(es) 3
Packing group III

**Description** UN1197, Extracts, flavouring, liquid, 3, III

Special Provisions 223

ICAO (air)

UN number or ID number UN1197
UN proper shipping name Extracts, liquid

Transport hazard class(es) 3
Packing group III

**Description** UN1197, Extracts, liquid, 3, III

Special Provisions A3

IATA

UN number or ID number UN1197
UN proper shipping name Extracts, liquid

Transport hazard class(es) 3
Packing group III
ERG Code 3L
Special Provisions A3

**Description** UN1197, Extracts, liquid, 3, III

UN number or ID number UN1197
UN proper shipping name Extracts, liquid

Transport hazard class(es)3Packing groupIIIEmS-No.F-E, S-DSpecial Provisions223, 955Marine pollutantNP

**Description** UN1197, Extracts, liquid, 3, III, (0°C c.c.)

### 15. Regulatory information

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

### **International Regulations**

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

#### **International Inventories**

**TSCA** Contact supplier for inventory compliance status.

Chemical name	CAS No.	Inventory Listing Status	Commercial Activity Designation
PROPYLENE GLYCOL USP	57-55-6	-	Unknown *
ACETOIN 96/100% FCC NATURAL	513-86-0	-	Unknown *
FURFURAL	98-01-1	-	Unknown *
ACETYL PROPIONYL FCC (2,3 PENTANEDIONE)	600-14-6	-	Unknown *

<sup>\*</sup>Contact supplier for details. One or more substances in this product are either not listed on the US TSCA inventory, listed on the confidential US TSCA inventory or are otherwise exempted from inventory listing requirements

DSL/NDSL Contact supplier for inventory compliance status. **EINECS/ELINCS** Contact supplier for inventory compliance status. Contact supplier for inventory compliance status. **ENCS** Contact supplier for inventory compliance status. **IECSC KECL** Contact supplier for inventory compliance status. **PICCS** Contact supplier for inventory compliance status. Contact supplier for inventory compliance status. AIIC Contact supplier for inventory compliance status. **NZIoC** 

#### 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

AIIC - Australian Inventory of Industrial Chemicals

NZIoC - New Zealand Inventory of Chemicals

#### **US Federal Regulations**

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.

### 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 contains the following substances which are regulated 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
FURFURAL 98-01-1	5000 lb	-	-	X

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive

Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	Reportable Quantity (RQ)
FURFURAL 98-01-1	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

#### **US State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
PROPYLENE GLYCOL USP	X	-	X
57-55-6			
FURFURAL	X	X	X
98-01-1			

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

### 16. Other information

NFPA	Health hazards 3	Flammability	0	Instability 0	Special hazards -
HMIS_	Health hazards * 3	Flammability	0	Physical hazards 0	Personal protection X

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

Legend Section 8: Exposure controls/personal protection

TWA (time-weighted average) TWA STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value Skin designation Sk\*

Sensitizers

### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

U.S. National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

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Revision date 07-Feb-2024

**Revision Note**No information available.

**Disclaimer** 

#### 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 on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

**End of Safety Data Sheet** 

### North America

#### North America SDS version information - NGHS

UL release: GHS Revision 3 2023 Q3

#### **North America**

Full process, including GHS and Transportation Wizards

Specific target organ toxicity (single exposure)	Category 1, Category 3
Category 1	
Specific target organ toxicity (repeated exposure)	Category 1

Chemical name	RCRA - U Series Wastes	RCRA - P Series Wastes
FURFURAL	U125	-
98-01-1		