# SAFETY DATA SHEET.



### Version 1

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

### 1.1. Product identifier

Number	291			
Manufacturer	Apex Flavors, Inc. 1371 Brass Mill Rd. Suite A Belcamp, MD 21017 (410) 565-6600			
Product name	MAPLE BACON TYPE, NATURAL FLAVOR BLEND			
Pure substance/mixture	Mixture			
1.2. Relevant identified uses of the	substance or mixture and uses advised against			
Recommended Use	Not for direct consumption			
1.3. Details of the supplier of the safety data sheet				
For further information, please contac	<u>:</u>			
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			

# 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

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

Symbol(s) Not dangerous

### 2.2. Label elements



Signal Word Danger

### **Hazard Statements**

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	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
GLYCERINE	Present	56-81-5		50-90%	-	No data available	No data available
ETHYL ALCOHOL	200-578-6	64-17-5		5-10%	F; R11	Flam. Liq. 2 (H225) Eye Irrit. 1 (H319)	No data available
ACETIC ACID	200-580-7	64-19-7		<1	R10 C; R35	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

### 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Ingestion	Clean mouth with water and drink afterwards plenty of water.
Inhalation	Move to fresh air.

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

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

Ensure adequate ventilation.

See Section 12 for additional Ecological Information

### 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

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

Ensure adequate ventilation.

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

N/A

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

7.3 Specific end use(s)

Exposure scenario N/A

Other Guidelines

### 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
GLYCERINE		STEL: 30 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 50 mg/m <sup>3</sup>
56-81-5		TWA: 10 mg/m <sup>3</sup>			Ceiling / Peak: 100
					mg/m³

ETHYL ALCOHOL		STEL: 3000 ppm	VME: 1000 ppm VME:	VLA-ED: 1000 ppm	MAK: 500 ppm MAK:
64-17-5		STEL: 5760 mg/m <sup>3</sup>	1900 mg/m <sup>3</sup>	VLA-ED: 1910 mg/m <sup>3</sup>	960 mg/m <sup>3</sup>
		TWA: 1000 ppm TWA:	VLCT: 5000 ppm	-	Ceiling / Peak: 1000
		1920 mg/m <sup>3</sup>	VLCT: 9500 mg/m <sup>3</sup>		ppm Čeiling / Peak:
		-	•		1920 mg/m <sup>3</sup>
					Skin
					TWA: 500 ppm TWA:
					960 mg/m <sup>3</sup>
ACETIC ACID	TWA 10 ppm TWA 25		VLCT: 10 ppm VLCT:	VLA-EC: 15 ppm	MAK: 10 ppm MAK: 25
64-19-7	mg/m <sup>3</sup>		25 mg/m <sup>3</sup>	VLA-EC: 37 mg/m <sup>3</sup>	mg/m <sup>3</sup>
	_		_	VLA-ED: 10 ppm	Ceiling / Peak: 20 ppm
				VLA-ED: 25 mg/m <sup>3</sup>	Ceiling / Peak: 50
				_	mg/m <sup>3</sup>
					TWA: 10 ppm TWA:
					25 mg/m <sup>3</sup>

Chemical Name	Italy	Portugal	The Netherlands	Finland	Denmark
GLYCERINE 56-81-5		TWA: 10 mg/m <sup>3</sup>		TWA: 20 mg/m <sup>3</sup>	
ETHYL ALCOHOL 64-17-5		TWA: 1000 ppm	Skin STEL: 1900 mg/m <sup>3</sup> TWA: 260 mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup> STEL: 1300 ppm STEL: 2500 mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>
ACETIC ACID 64-19-7		STEL: 15 ppm TWA: 10 ppm		TWA: 5 ppm TWA: 13 mg/m <sup>3</sup> STEL: 10 ppm STEL: 25 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 25 mg/m <sup>3</sup>

Chemical Name	Austria	Sweden - Occupational Exposure Limits - TLVs (LLVs)	Switzerland	Poland	Norway
GLYCERINE 56-81-5			STEL: 100 mg/m <sup>3</sup> TWA: 50 mg/m <sup>3</sup>	TWA: 10 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/m³ 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>
ACETIC ACID 64-19-7	STEL 20 ppm STEL 50 mg/m <sup>3</sup> MAK: 10 ppm MAK: 25 mg/m <sup>3</sup>	5 ppm NGV 13 mg/m <sup>3</sup> NGV	STEL: 20 ppm STEL: 50 mg/m <sup>3</sup> MAK: 10 ppm MAK: 25 mg/m <sup>3</sup>	NDSCh: 30 mg/m <sup>3</sup> NDS: 15 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 25 mg/m <sup>3</sup> STEL: 20 ppm STEL: 37.5 mg/m <sup>3</sup>

Component	Ireland
GLYCERINE	TWA: 10 mg/m <sup>3</sup>
56-81-5 ( 50-90% )	
ETHYL ALCOHOL	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>
64-17-5 ( 5-10% )	
ACETIC ACID	TWA: 10 ppm TWA: 25 mg/m <sup>3</sup>
64-19-7(<1)	STEL: 15 ppm STEL: 37 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 Protection Hand Protection Skin and body protection Respiratory protection	Tightly fitting safety goggles Protective gloves Long sleeved clothing When workers are facing concentrations above the exposure limit they must use appropriate certified respirators
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice.
Environmental Exposure Controls	No information available

# 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Physical state Odor	liquid sweet maple-li	ke bacon	Appearance Color	viscous opaque dark brown
Property pH Melting/freezing poi Boiling point/boiling Flash Point Evaporation rate Flammability (solid, Flammability Limits Upper flammability lower flammability	g range gas) in Air y limit	<u>Values</u> 93 °C / 200 °F	<u>Method</u> No information available No information available FCC Method Closed cup FCC Method No information available No information available	
Vapor pressure mm Vapor density Relative density Specific Gravity @ 2 Specific Gravity @ 2 Refractive Index Water solubility Partition coefficient Autoignition temper Decomposition temp Viscosity, dynamic	Hg 20°C 25C 20C : n-octanol/wate rature	0.96510- 0.98510 Not Tested 1.3600 - 1.3900 er	No information available No information available No information available 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 information	on			
VOC Content(%) Molecular Weight		5.96875 No information available		
	10. STABILITY AND REACTIVITY			

### 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	19.206% of the mixture consists of ingredient(s) of unknown toxicity
The following values are calculated	d based on chapter 3.1 of the GHS document (Rev. 1, 2005):
Oral Dermal	43,739.00 mg/kg 10,840.00 mg/kg
Inhalation Mist	171.00 mg/l
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 system Eyes Kidney Liver Reproductive system Respiratory system Skin
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
GLYCERINE		51 - 57: 96 h Oncorhynchus mykiss mL/L LC50 static	500: 24 h Daphnia magna mg/L EC50
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
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
GLYCERINE	-1.76
ETHYL ALCOHOL	-0.32
ACETIC ACID	-0.31

### 12.4. Mobility in soil

No information available

### 12.5. Results of PBT and vPvB assessment

### 12.6. Other adverse effects

Endocrine Disruptor Information

.? is a suspected endocrine disruptor

### **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/ADR	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	
	Hazalu Classes	
GLYCERINE	Hazard Class 1	
56-81-5		
ETHYL ALCOHOL	Hazard Class 1	
64-17-5		
ACETIC ACID	Hazard Class 1	
64-19-7		

#### International Inventories

All of the components in the product are on the following Inventory lists: No information available.

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
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 H319 - Causes serious eye irritation H318 - Causes serious eye damage H226 - Flammable liquid and vapor

Revision Date	16-Aug-2018
Revision Note	Not applicable.
Revision#	1

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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