

# SAFETY DATA SHEET.

Version 1.01

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

# 1.1. Product identifier

Number	020, 020BEV, 020TTB, 020PGF, 020PGFT, 020ICR			
Manufacturer	Apex Flavors, Inc. 1361 Brass Mill Rd. Suite E Belcamp, MD 21017 (410) 565-6600			
Product name Pure substance/mixture	MAPLE FLAVOR, NATURAL WONF 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 safety 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

Serious eye damage/eye irritation	Category 2A
Acute aquatic toxicity	Not classified for acute
Flammable liquids	Category 3

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 Warning

## **Hazard Statements**

H319 - Causes serious eye irritation H411 - Toxic to aquatic life with long lasting effects

H226 - Flammable liquid and vapor

# Precautionary Statements

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

# 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
ETHYL ALCOHOL	200-578-6	64-17-5		30-50%	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

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

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

Prevent further leakage or spillage if safe to do so.

#### 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

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

7.3 Specific end use(s)

Exposure scenario	N/A
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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
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 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
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>	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
ETHYL ALCOHOL	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>
64-17-5 ( 30-50% )	

Derived No Effect Level (DNEL)	No information available
Predicted No Effect Concentration (PNEC)	No information available
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

Odor     typical of maple; sweet; brown     Color     brown       Property pH Melting/freezing point Boiling point/boiling range Flash Point Evaporation rate Flammability (solid, gas) Flammability (solid, gas) Flammability (solid, gas) Flammability limit lower flammability limit	Physical state	liquid		Appearance	clear to slightly cloudy liquid
pH       No information available         Melting/freezing point       No information available         Boiling point/boiling range       FCC Method         Flash Point       27 °C / 80 °F       Closed cup         Evaporation rate       FCC Method         Flash Point       27 °C / 80 °F       Closed cup         Evaporation rate       FCC Method         Flammability (solid, gas)       No information available         Pupper flammability limit       No information available         Upper flammability limit       No information available         Vapor pressure mm Hg 20°C       No information available         Vapor density       No information available         Relative density       No information available         Relative density       0.9415 - 0.9615       FCC Method         Specific Gravity @ 20C       0.9445 - 0.9645       FCC Method         Refractive Index       1.3525 - 1.3725       FCC Method         Water solubility       No information available       No information available         Partition coefficient: n-octanol/water       No information available       No information available         Autoignition temperature       No information available       No information available         Viscosity, dynamic       No information available	Odor	typical of map	le; sweet; brown	Color	
Flash Point       27 °C / 80 °F       Closed cup         Evaporation rate       FCC Method         Flammability (solid, gas)       No information available         Flammability Limits in Air       No information available         Upper flammability limit       No information available         lower flammability limit       No information available         Vapor density       No information available         Relative density       No information available         Specific Gravity @ 25C       0.9415 - 0.9615       FCC Method         Specific Gravity @ 20C       0.9445 - 0.9645       FCC Method         Refractive Index       1.3525 - 1.3725       FCC Method         Water solubility       No information available       No information available         Partition coefficient: n-octanol/water       No information available       No information available         Autoignition temperature       No information available       No information available         Viscosity, dynamic       No information available       No information available         9.2. Other information_       40	pH Melting/freezing poi		<u>Values</u>	No information available No information available	
Vapor densityNo information availableRelative densityNo information availableSpecific Gravity @ 25C0.9415 - 0.9615FCC MethodSpecific Gravity @ 20C0.9445 - 0.9645Refractive Index1.3525 - 1.3725FCC MethodWater solubilityNo information availablePartition coefficient: n-octanol/waterNo information availableAutoignition temperatureNo information availableDecomposition temperatureNo information availableViscosity, dynamicNo information availableExplosive propertiesNo information availableOxidizing PropertiesNo information available9.2. Other information40	Flash Point Evaporation rate Flammability (solid, Flammability Limits Upper flammability lower flammability	gas) in Air y limit y limit	27 °C / 80 °F	FCC Method No information available	
Specific Gravity @ 20C0.9445 - 0.9645FCC MethodRefractive Index1.3525 - 1.3725FCC MethodWater solubilityNo information availableNo information availablePartition coefficient: n-octanol/waterNo information availableAutoignition temperatureNo information availableDecomposition temperatureNo information availableViscosity, dynamicNo information availableExplosive propertiesNo information availableOxidizing PropertiesNo information available9.2. Other information40	Vapor density	Hg 20°C		No information available	
Partition coefficient: n-octanol/water       No information available         Autoignition temperature       No information available         Decomposition temperature       No information available         Viscosity, dynamic       No information available         Explosive properties       No information available         Oxidizing Properties       No information available         9.2. Other information       40	Specific Gravity @ 2		0.9445 - 0.9645	FCC Method FCC Method	
Explosive properties       No information available         Oxidizing Properties       No information available         9.2. Other information       40	Partition coefficient Autoignition temper Decomposition tem	ature	er	No information available No information available No information available	
VOC Content(%) 40	Explosive propertie				
	9.2. Other information	on			

# **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 e	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	59.25% 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):

#### Inhalation Mist

67,435.57 mg/l

Chemical Name	Oral LD50	Dermal LD50	LC50 Inhalation
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 s	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
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

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

IMDG / IMO	
Proper shipping name	EXTRACTS, FLAVOURING, LIQUID
Hazard class	3
UN/ID No	1197
Packing Group	III
ICAO/IATA	
UN/ID No	1197
Proper shipping name	EXTRACTS, FLAVOURING, LIQUID
Hazard class	3
Packing Group	III
ERG Code	127

# 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
ETHYL ALCOHOL 64-17-5	Hazard Class 1

# International Inventories

All of the components in the product are on the following Inventory lists: United States of America (TSCA), Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Australia (AICS), Korea (ECL), China (IECSC), Japan (ENCS), Philippines (PICCS).

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

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

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

Revision Date	09-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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