# SAFETY DATA SHEET.



Version 2.01

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

1.1. Product identifier

Number 263PGFT

Manufacturer Apex Flavors, Inc.

1371 Brass Mill Rd.

Suite A

Belcamp, MD 21017 (410) 565-6600

Product name GRAPEFRUIT EXTRACT, NATURAL WONF

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 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

# 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Skin corrosion/irritation	Category 3
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1
Carcinogenicity	Category 1A
Acute aquatic toxicity	Category 2
Chronic aquatic toxicity	Category 3
Flammable liquids	Category 2

# 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

#### 2.2. Label elements



# Signal Word

Danger

#### **Hazard Statements**

H316 - Causes mild skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H350 - May cause cancer

H401 - Toxic to aquatic life

H412 - Harmful to aquatic life with long lasting effects

H226 - Flammable liquid and vapor

# **Precautionary Statements**

P280 - Wear eye protection/ face protection

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

P201 - Obtain special instructions before use

P281 - Use personal protective equipment as required

P308 + P313 - IF exposed or concerned: Get medical advice/ attention

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	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
ETHYL ALCOHOL	200-578-6	64-17-5		50-90%	F; R11	Flam. Liq. 2 (H225) Eye Irrit. 1 (H319)	No data available
LIMONENE	227-813-5	5989-27-5		1-5%	R10, XI; R38, XI; R43, N; R50/53;	Aquatic Acute 1 (H400) Skin Sens. 1 (H317) Skin Irrit. 1 (H315) Asp. Tox. 1 (H304) Aquatic Chronic 1 (H410) 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

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

# 7.3 Specific end use(s)

Exposure scenario N/A
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>
LIMONENE					MAK: 20 ppm MAK:
5989-27-5					110 mg/m <sup>3</sup>
					Ceiling / Peak: 40 ppm
					Ceiling / Peak: 220
					mg/m³
					TWA: 20 ppm TWA:
					110 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>	
LIMONENE				TWA: 25 ppm TWA:	
5989-27-5				140 mg/m <sup>3</sup>	
				STEL: 50 ppm STEL:	
				280 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/m³ NGV	STEL: 1000 ppm STEL: 1920 mg/m³ MAK: 500 ppm MAK: 960 mg/m³	NDS: 1900 mg/m <sup>3</sup>	TWA: 500 ppm TWA: 950 mg/m³ STEL: 625 ppm STEL: 1187.5 mg/m³
LIMONENE 5989-27-5			STEL: 40 ppm STEL: 220 mg/m³ MAK: 20 ppm MAK: 110 mg/m³		TWA: 25 ppm TWA: 140 mg/m³ STEL: 37.5 ppm STEL: 175 mg/m³

Component	Ireland
ETHYL ALCOHOL	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>
64-17-5 ( 50-90% )	

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 Tightly fitting safety goggles

Hand Protection Protective gloves
Skin and body protection Long sleeved clothing

Respiratory protection 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 stateliquidAppearanceclearOdorcharacteristic of grapefruitColoryellow

<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 22 °C / 71 °F Closed cup

Evaporation rate Evaporation rate Evaporation rate Evaporation rate

Flammability (solid, gas)

No information available
Plammability Limits in Air

No information available

Upper flammability limit lower flammability limit

Vapor pressure mm Hg 20°C

No information available

No information available

Vapor densityNo information availableRelative densityNo information available

Specific Gravity @ 25C0.8570 - 0.8870FCC MethodSpecific Gravity @ 20C0.86 - 0.89FCC Method

Refractive Index FCC Method
Water solubility No information

Water solubility

No information available
Partition coefficient: n-octanol/water

No information available

Autoignition temperature

Decomposition temperature

Viscosity, dynamic

No information available
No information available
No information available

Explosive properties No information available Oxidizing Properties No information available

9.2. Other information

VOC Content(%) 58.5099991559982

Molecular Weight No information available

# 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** 41.4576% 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):

**Oral** 6,941.00 mg/kg **Dermal** 68,471.00 mg/kg

Inhalation

Mist 68,225.00 mg/l

Skin corrosion/irritation
Eye damage/irritation
Sensitization
Germ Cell Mutagenicity
No information available
No information available
No information available

Carcinogenicity No information available

Specific target organ systemic toxicity (single exposure)

No information available

No information available

Specific target organ systemic toxicity (repeated exposure)

**Target Organ Effects** 

Blood Central nervous system Eyes 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
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
LIMONENE		0.619-0.796: 96 h Pimephales promelas mg/L LC50 flow-through 35: 96 h Oncorhynchus mykiss mg/L LC50	

## 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/ADR

**UN/ID No** 1197

Proper shipping name EXTRACTS, FLAVOURING, LIQUID

Hazard class 3
Packing Group II
ERG Code 127

IMDG / IMO

Proper shipping name EXTRACTS, FLAVOURING, LIQUID

Hazard class 3 UN/ID No 1197 Packing Group II

ICAO/IATA

**UN/ID No** 1197

Proper shipping name EXTRACTS, FLAVOURING, LIQUID

Hazard class 3
Packing Group II
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	Hazard Class 1
64-17-5	

#### 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

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

H400 - Very toxic to aquatic life H317 - May cause an allergic skin reaction H316 - Causes mild skin irritation H304 - May be fatal if swallowed and enters airways H410 - Very toxic to aquatic life with long lasting effects H226 - Flammable liquid and vapor H225 - Highly flammable liquid and vapor

Revision Date 06-Jun-2018

Revision Note Not applicable.

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Revision# 2.01

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.

#### **Disclaimer**

Food ingredients that are safe to be consumed in food products may pose hazards if not handled properly. This product is intended to be used in food products and, not intended to be consumed in its present form. 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.