## APEX FLAVORS, INC.

## SAFETY DATA SHEET.



Version 1

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

1.1. Product identifier

**Number** 082, 082BEV, 082TTB

Manufacturer Apex Flavors, Inc.

1361 Brass Mill Rd.

Suite E

Belcamp, MD 21017 (410) 565-6600

Product name POMEGRANATE TYPE, NATURAL FLAVOR BLEND

Pure substance/mixture 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	Category 3
Chronic aquatic toxicity	Category 3
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

## 2.2. Label elements



## Signal Word Warning

## **Hazard Statements**

H319 - Causes serious eye irritation

H412 - Harmful 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	0.00000	REACH Registration Number
PROPYLENE GLYCOL	200-338-0	57-55-6		20-30%	-	No data available	No data available
GLYCERINE	Present	56-81-5		10-15%	-	No data available	No data available
ETHYL ALCOHOL	Present	64-17-5		10-15%	F; R11	Eye Irrit. 1 (H319) (EFFA) Flam. Liq. 2 (H225) (EFFA) 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

General advice If symptoms persist, 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

Revision Date 02-Sep-2015

Skin contact Immediate medical attention is not required. Wash off immediately with soap and plenty of

water while removing all contaminated clothes and shoes. If skin irritation persists, call a

physician.

**Ingestion** Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth

to an unconscious person. Call a physician. Do NOT induce vomiting.

Inhalation 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.

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

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 Dry chemical Carbon dioxide CO<sub>2</sub> Water spray Alcohol-resistant foam

## 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

Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Remove all sources of ignition. Pay attention to flashback. Take precautionary measures against static discharges. Use personal protective equipment.

See Section 12 for additional Ecological Information

#### 6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

#### 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

Revision Date 02-Sep-2015

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. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).

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

Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Keep in properly labeled containers.

## 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
PROPYLENE GLYCOL 57-55-6		STEL: 450 ppm STEL: 1422 mg/m³ STEL: 30 mg/m³ TWA: 150 ppm TWA: 474 mg/m³ TWA: 10 mg/m³			
GLYCERINE 56-81-5		STEL: 30 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 50 mg/m³ Ceiling / Peak: 100 mg/m³
ETHYL ALCOHOL 64-17-5		STEL: 3000 ppm STEL: 5760 mg/m³ TWA: 1000 ppm TWA: 1920 mg/m³	TWA: 1000 ppm TWA: 1900 mg/m³ STEL: 5000 ppm STEL: 9500 mg/m³	STEL: 1000 ppm STEL: 1910 mg/m³	TWA: 500 ppm TWA: 960 mg/m³ Ceiling / Peak: 1000 ppm Ceiling / Peak: 1920 mg/m³ Skin

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/m³ TWA: 260 mg/m³	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>

Chemical Name	Austria	Sweden - Occupational Exposure Limits - TLVs (LLVs)	Switzerland	Poland	Norway
PROPYLENE GLYCOL 57-55-6					TWA: 25 ppm TWA: 79 mg/m³ STEL: 37.5 ppm STEL: 118.5 mg/m³
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> TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>	500 ppm NGV 1000 mg/m <sup>3</sup> NGV	STEL: 1000 ppm STEL: 1920 mg/m <sup>3</sup> TWA: 500 ppm TWA: 960 mg/m <sup>3</sup>	TWA: 1900 mg/m <sup>3</sup>	TWA: 500 ppm TWA: 950 mg/m³ STEL: 625 ppm STEL: 1187.5 mg/m³

Component	Ireland
PROPYLENE GLYCOL	TWA: 150 ppm TWA: 470 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>
57-55-6 ( 20-30% )	
GLYCERINE	TWA: 10 mg/m <sup>3</sup>
56-81-5 ( 10-15% )	
ETHYL ALCOHOL	STEL: 1000 ppm
64-17-5 ( 10-15% )	

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 Chemical resistant apron Antistatic boots Impervious gloves

Respiratory protection

When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators

General Hygiene Considerations When using, do not eat, drink or smoke Provide regular cleaning of equipment, work area

and clothing

Environmental Exposure Controls No information available

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## 9.1. Information on basic physical and chemical properties

Physical state liquid Appearance clear

Odor fruity slightly cranberry cough syrup like Color colorless to yellow

Property Values Method

**pH** No information available

Melting/freezing point

No information available

Boiling point/boiling range

FCC Method

Flash Point 46 °C / 114 °F Closed cup

Evaporation rate FCC Method No information available

Flammability Limits in Air No information available

Upper flammability limit lower flammability limit

Vapor pressure mm Hg 20°C No information available

Vapor densityNo information availableRelative densityNo information available

Specific Gravity @ 25C 1.0039 - 1.0339 FCC Method Specific Gravity @ 20C 1.0069 - 1.0369 FCC Method Potractive Index 1.2670 1.3070 FCC Method

Refractive Index 1.3679 - 1.3979 FCC Method

Water solubility No information available

Partition coefficient: n-octanol/waterNo information availableAutoignition temperatureNo information availableDecomposition temperatureNo information availableViscosity, dynamicNo information available

Explosive properties No information available Oxidizing Properties No information available

9.2. Other information

VOC Content(%) 54.2944484638865 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** 

There is no data available for this product Inhalation

**Eve contact** There is no data available for this product

Skin contact There is no data available for this product

There is no data available for this product Ingestion

**Acute toxicity** 44.933699% 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 36,711.00 mg/kg 19,374.00 mg/kg **Dermal** 

Mist 594.26 mg/l

Chemical Name	Oral LD50	Dermal LD50	LC50 Inhalation
PROPYLENE GLYCOL	20000 mg/kg (Rat)	20800 mg/kg ( Rabbit )	
GLYCERINE		10 g/kg (Rabbit)	570 mg/m³ (Rat) 1 h
ETHYL ALCOHOL			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 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
PROPYLENE GLYCOL	19000: 96 h Pseudokirchneriella subcapitata mg/L EC50	51600: 96 h Oncorhynchus mykiss mg/L LC50 static 41 - 47: 96 h Oncorhynchus mykiss mL/L LC50 static 51400: 96 h Pimephales promelas mg/L LC50 static 710: 96 h Pimephales promelas mg/L LC50	

GLYCERINE	51 - 57: 96 h Oncorhynchus mykiss mL/L LC50 static	500: 24 h Daphnia magna mg/L EC50
ETHYL ALCOHOL	,	9268 - 14221: 48 h Daphnia magna mg/L LC50 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
GLYCERINE	-1.76
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 class3Packing GroupIIIERG Code127

## 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
PROPYLENE GLYCOL 57-55-6	Hazard Class 1
GLYCERINE 56-81-5	Hazard Class 1
ETHYL ALCOHOL 64-17-5	Hazard Class 1

#### 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

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

Revision Date 02-Sep-2015

Revision Note Not applicable.

Revision#

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.

Revision Date 02-Sep-2015

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.