# SAFETY DATA SHEET.



#### Version 1

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

## 1.1. Product identifier

Number	340
Manufacturer	Apex Flavors, Inc. 1371 Brass Mill Rd. Suite A Belcamp, MD 21017 (410) 565-6600
Product name Pure substance/mixture	BOYSENBERRY TYPE, NATURAL FLAVOR BLEND 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 sa	fety data sheet
For further information, please contact	<u>t:</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

 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

#### 2.2. Label elements

Signal Word Warning

H227 - Combustible liquid **Precautionary Statements** 

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
PROPYLENE GLYCOL	200-338-0	57-55-6		90-100%	-	No data available	No data available
2-Butanone, 4-(4-hydroxyphenyl)-	Present	5471-51-2		1-5%	-	Acute Tox. 4 (H302) (EFFA)	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
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

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

See Section 12 for additional Ecological Information

#### 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system. 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

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 away from heat and sources of ignition. 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		STEL: 450 ppm STEL:			
57-55-6		1422 mg/m3 STEL: 30			
		mg/m <sup>3</sup>			
		TWA: 150 ppm TWA:			
		474 mg/m <sup>3</sup> TWA: 10			
		mg/m <sup>3</sup>			

Chemical Name	Austria	Sweden -	Switzerland	Poland	Norway
		Occupational			
		Exposure Limits -			
		TLVs (LLVs)			

# 340 BOYSENBERRY TYPE, NATURAL FLAVOR BLEND

PROPYLENE GLYCOL 57-55-6	TWA: 25 ppm TWA: 79 mg/m <sup>3</sup> STEL: 37.5 ppm STEL: 118.5 mg/m <sup>3</sup>
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Component	Ireland	
PROPYLENE GLYCOL	TWA: 150 ppm TWA: 470 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>	
57-55-6 ( 90-100% )		

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 Chemical resistant apron Antistatic boots Impervious gloves 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 Odor	liquid dark berry		Appearance Color	clear colorless
Property pH Melting/freezing poir Boiling point/boiling Flash Point Evaporation rate Flammability (solid, Flammability Limits Upper flammability lower flammability	range gas) in Air / limit	<u>Values</u> 86 °C / 186 °F	Method 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 tempera Decomposition temp Viscosity, dynamic	Hg 20°C 5C 0C n-octanol/wate ature	1.027 - 1.047 1.03 - 1.05 1.425 - 1.445	No information available No information available No information available FCC Method 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 informatio	<u>n</u>			
VOC Content(%) Molecular Weight		98.4200192525254 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 e	ffects
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	0.039448% of the mixture consists of ingredient(s) of unknown toxicity
The following values are calculated	I based on chapter 3.1 of the GHS document (Rev. 1, 2005):

Oral	14,453.00 mg/kg
Dermal	21,143.00 mg/kg

Chemical Name	Oral LD50	Dermal LD50	LC50 Inhalation
PROPYLENE GLYCOL	20000 mg/kg (Rat)	20800 mg/kg (Rabbit)	
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	No information available		
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	

# 12.2. Persistence and degradability

No information available

#### 12.3. Bioaccumulative potential

No information available

#### 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	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
PROPYLENE GLYCOL 57-55-6	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

H302 - Harmful if swallowed

Revision Date	12-Oct-2015
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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