# APEX FLAVORS, INC.

# SAFETY DATA SHEET.



Version 1

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

1.1. Product identifier

Number 059ICR

Manufacturer Apex Flavors, Inc.

1371 Brass Mill Rd.

Suite A

Belcamp, MD 21017 (410) 565-6600

Product name AMARETTO 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/ 703-527-3887 outside US

# 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Acute oral toxicity	Category 5
Acute dermal toxicity	Category 5
Serious eye damage/eye irritation	Category 2A
Acute aquatic toxicity	Category 2
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**

H303 - May be harmful if swallowed

H313 - May be harmful in contact with skin

H319 - Causes serious eye irritation

H401 - Toxic to aquatic life

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	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
PROPYLENE GLYCOL	200-338-0	57-55-6		30-50%	-	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
BENZALDEHYDE	202-860-4	100-52-7		1-5%	XN; R22;	Aquatic Acute 2 (H401) Skin Irrit. 3 (H316) Acute Tox. 4 (H302) Acute Tox. 5 (H313) Flam. Liq. 4 (H227)	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

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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.

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

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)

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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			
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
ETHYL ALCOHOL		TWA: 1000 ppm	Skin	TWA: 1000 ppm	TWA: 1000 ppm
64-17-5			STEL: 1900 mg/m <sup>3</sup>	TWA: 1900 mg/m <sup>3</sup>	TWA: 1900 mg/m <sup>3</sup>
			TWA: 260 mg/m <sup>3</sup>	STEL: 1300 ppm	
				STEL: 2500 mg/m <sup>3</sup>	
BENZALDEHYDE				TWA: 1 ppm TWA: 4.4	
100-52-7				mg/m³	
				STEL: 4 ppm STEL:	
				17.4 mg/m <sup>3</sup>	
				Ceiling: 4 ppm Ceiling:	
				17.4 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
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/m³ 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

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BENZALDEHYDE		NDSCh: 40 mg/m³	
100-52-7		NDS: 10 mg/m <sup>3</sup>	

Component	Ireland
PROPYLENE GLYCOL 57-55-6 ( 30-50% )	TWA: 150 ppm TWA: 470 mg/m³ TWA: 10 mg/m³
ETHYL ALCOHOL 64-17-5 ( 10-15% )	STEL: 1000 ppm

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 liquid Appearance clear

Odor typical of amaretto Color yellow to amber

<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 39 °C / 103 °F Closed cup Evaporation rate FCC Method

Flammability (solid, gas)

Flammability Limits in Air

No information available
No information available

Upper flammability limit lower flammability limit

Vapor pressure mm Hg 20°CNo information availableVapor densityNo information available

Relative density

Specific Gravity @ 25C

Specific Gravity @ 20C

1.0187 - 1.0520

FCC Method

FCC Method

FCC Method

Specific Gravity @ 20C

1.0217 - 1.055

FCC Method

Refractive Index

1.3967 - 1.4267

FCC Method

Water solubility

No information

Water solubilityNo information availablePartition 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(%) 52.3541993243416 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 20.46705% 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
 4,748.00 mg/kg

 Dermal
 4,650.00 mg/kg

**Vapor** 182.00 mg/l

Chemical Name	Oral LD50	Dermal LD50	LC50 Inhalation
PROPYLENE GLYCOL	20000 mg/kg (Rat)	20800 mg/kg ( Rabbit )	
ETHYL ALCOHOL			124.7 mg/L (Rat) 4 h
BENZALDEHYDE	800 mg/kg (Rat)	1250 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)

Specific target organ systemic

toxicity (repeated exposure)

No information available

No information available

 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
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	

ETHYL ALCOHOL			9268 - 14221: 48 h Daphnia magna
	I   7	•	mg/L LC50 2: 48 h Daphnia magna
	Pi	imephales promelas mg/L LC50	mg/L EC50 Static
		static 13400 - 15100: 96 h	
	Pi	imephales promelas mg/L LC50	
		flow-through	
BENZALDEHYDE	0.8-	-1.44: 96 h Lepomis macrochirus	50: 24 h Daphnia magna mg/L
	mg	g/L LC50 flow-through 10.6-11.8:	EC50
	96	6 h Oncorhynchus mykiss mg/L	
	L	LC50 flow-through 12.69: 96 h	
	Or	ncorhynchus mykiss mg/L LC50	
	st	tatic 6.8-8.53: 96 h Pimephales	
	pro	omelas mg/L LC50 flow-through	
	7	7.5: 96 h Lepomis macrochirus	
		mg/L LC50 static	

# 12.2. Persistence and degradability

No information available

#### 12.3. Bioaccumulative potential

No information available

Chemical Name	log Pow
ETHYL ALCOHOL	-0.32
BENZALDEHYDE	1.48

# 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

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
PROPYLENE GLYCOL 57-55-6	Hazard Class 1
ETHYL ALCOHOL 64-17-5	Hazard Class 1
BENZALDEHYDE 100-52-7	Hazard Class 2

#### **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

H401 - Toxic to aquatic life H316 - Causes mild skin irritation H302 - Harmful if swallowed H313 - May be harmful in contact with skin H227 - Combustible liquid H319 - Causes serious eye irritation H225 - Highly flammable liquid and vapor

Revision Date 22-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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