SAFETY DATA SHEET.



Version 1

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

1.1. Product identifier

Number	089ICR		
Manufacturer	Apex Flavors, Inc. 1371 Brass Mill Rd. Suite A Belcamp, MD 21017 (410) 565-6600		
Product name Pure substance/mixture	APPLE CIDER 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 safety data sheet			
For further information, please contact	<u>:</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

Carcinogenicity	Category 1A
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

Symbol(s) Not dangerous

2.2. Label elements

Signal Word Danger

Hazard Statements

H317 - May cause an allergic skin reaction

H401 - Toxic to aquatic life

H227 - Combustible liquid

Precautionary Statements

P201 - Obtain special instructions before use

P281 - Use personal protective equipment as required

- P308 + P313 IF exposed or concerned: Get medical advice/ attention
- 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		50-90%	-	No data available	No data available
Trade Secret	Listed	-		<1	-	Aquatic Acute 2 (H401) (EFFA) Skin Sens. 1 (H317) (EFFA) Skin Irrit. 3 (316) (EFFA) Aquatic Chronic 2 (H411) (EFFA) Acute Tox. 4 (H302) (EFFA) Acute Tox. 3 (H311)(EFFA) Flam. Liq. 3 (H226)(EFFA)	No data available
Trade Secret	Listed	-		<1	XI; R38, XI; R43, N; R51/53;	Aquatic Acute 2 (H401) Skin Sens. 1 (H317) Skin Irrit. 2 (H316) Acute Tox. 5 (H303) Acute Tox. 5 (H313)	No data available
Trade Secret	Listed	-		<1	XI; R38, XI; R41, XI; R43;	Aquatic Acute 2 (H401) Skin Sens. 1 (H317) Eye Dam. 1 (H318) Skin Irrit. 2 (H316) Acute Tox. 5 (H303)	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

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

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/m ³ STEL: 30			
		mg/m ³			
		TWA: 150 ppm TWA:			
		474 mg/m ³ TWA: 10			
		mg/m ³			

Chemical Name	Austria	Sweden - Occupational Exposure Limits - TLVs (LLVs)	Switzerland	Poland	Norway
PROPYLENE GLYCOL 57-55-6					TWA: 25 ppm TWA: 79 mg/m ³ STEL: 37.5 ppm STEL: 118.5 mg/m ³

Component	Ireland
PROPYLENE GLYCOL 57-55-6 (50-90%)	TWA: 150 ppm TWA: 470 mg/m ³ TWA: 10 mg/m ³

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

Physical state Odor	liquid Characteristic	of apple	Appearance Color	clear colorless
Property pH Melting/freezing poin Boiling point/boiling Flash Point Evaporation rate Flammability (solid, Flammability Limits Upper flammability lower flammability	range gas) in Air y limit	<u>Values</u> 93 °C / 200 °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 temper Decomposition temp Viscosity, dynamic	Hg 20°C 5C 0C n-octanol/wate ature	1.0315 - 1.0515 1.0345 - 1.0545 1.4040 - 1.4240 er	No information available No information available No information available 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 information	on			
VOC Content(%) Molecular Weight		75.1592120211571 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 effectsAcute toxicityInhalationThere is no data available for this productEye contactThere is no data available for this productSkin contactThere is no data available for this productIngestionThere is no data available for this productAcute toxicity23.2365999% of the mixture consists of ingredient(s) of unknown toxicityThe following values are calculated by a constant of the GHS document (Rev. 1, 2005):

Oral	20,817.00 n	ng/kg
Dermal	15,951.00 n	ng/kg

Chemical Name	Oral LD50	Dermal LD50	LC50 Inhalation
PROPYLENE GLYCOL	20000 mg/kg (Rat)	20800 mg/kg (Rabbit)	
Trade Secret	780 mg/kg (Rat)	600 mg/kg (Rabbit)	
Trade Secret	3450 mg/kg (Rat)	2650 mg/kg (Rabbit)	
Trade Secret	3600 mg/kg (Rat)	5000 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	10000: 24 h Daphnia magna mg/L EC50 1000: 48 h Daphnia magna mg/L EC50 Static

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		
	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
Trade Secret	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), China (IECSC), Japan (ENCS), Philippines (PICCS).

TSCA	Complies
EINECS/ELINCS	Complies
DSL/NDSL	Complies
PICCS	Complies
ENCS	Complies

IECSC	Complies	
AICS	Complies	
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

Risk Combination Phrases

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Full text of H-Statements referred to under sections 2 and 3

H401 - Toxic to aquatic life H317 - May cause an allergic skin reaction H316 - Causes mild skin irritation H303 - May be harmful if swallowed H313 - May be harmful in contact with skin H318 - Causes serious eye damage H411 - Toxic to aquatic life with long lasting effects H302 - Harmful if swallowed H311 - Toxic in contact with skin H226 - Flammable liquid and vapor

Revision Date	10-Feb-2016
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.

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.