SAFETY DATA SHEET.



Version 1

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

1.1. Product identifier

Number	331TTB			
Manufacturer	Apex Flavors, Inc. 1371 Brass Mill Rd. Suite A Belcamp, MD 21017 (410) 565-6600			
Product name	MARSHMALLOW TYPE, NATURAL & ARTIFICIAL (CONTAINS <0.10% ARTIFICIAL TOP NOTE)			
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

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		REACH Registration Number
PROPYLENE GLYCOL	200-338-0	57-55-6		50-90%	-	No data available	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

N/A

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

7.3 Specific end use(s)

Exposure scenario N/A

Other Guidelines

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

Derived No Effect Level (DNEL)

No information available

Predicted No Effect Concentration No information available (PNEC)

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 sweet vanilla n	narshmallow	Appearance Color	clear Colorless to light yellow.
Property pH Melting/freezing poi Boiling point/boiling Flash Point Evaporation rate Flammability (solid, Flammability Limits Upper flammability lower flammability	g range , gas) s in Air ty limit	<u>Values</u> 93 °C / 200 °F	<u>Method</u> 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 tem Viscosity, dynamic	i Hg 20°C 25C 20C :: n-octanol/wate rature	1.031 - 1.061 1.034 - 1.064 1.398 - 1.428	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 information	<u>on</u>			
VOC Content(%) Molecular Weight		70.0799999982119 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	28.05% 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	18,078.00 mg/kg
Dermal	19,959.00 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), China (IECSC), Philippines (PICCS).

TSCA EINECS/ELINCS DSL/NDSL PICCS	Complies Complies Complies Complies
ENCS	
IECSC AICS	Complies
KECL	Complies -

Legend

TSČA - 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
Australian Inventory of Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances

15.2. Chemical safety assessment

16. OTHER INFORMATION

Revision Date	08-Dec-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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