

SAFETY DATA SHEET.



Version 1

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

Product identifier Product Code(s) Product name	054BEV WHITE CHOCOLATE TYPE, NATURAL FLAVOR BLEND
UN/ID No	1197
<u>Recommended use of the chemical</u> Recommended Use Uses advised against	and restrictions on use No information available. No information available
Manufacturer	Apex Flavors, Inc. 1371 Brass Mill Rd. Suite A Belcamp, MD 21017 (410) 565-6600

Emergency telephone

Chemtrec: 1-800-424-9300 for US/ 703-527-3887 outside US

2. HAZARDS IDENTIFICATION

Classification

Serious eye damage/eye irritation	Category 2A	
Flammable liquids	Category 3	

<u>GHS Label elements, including</u> precautionary statements

	Emergency Overview	
Warning		
Hazard Statements Causes serious eye irritation Flammable liquid and vapor		
Appearance clear	Physical state liquid	Odor typical of white chocolate

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Other information

· Toxic to aquatic life with long lasting effects

Toxic to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade Secret
ETHYL ALCOHOL	64-17-5	30-50%	*
VANILLIN	121-33-5	1-5%	*

4. FIRST AID MEASURES

First aid measures for different exposure routes

Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.	
Skin contact	Wash skin with soap and water.	
Inhalation	Move to fresh air.	
Ingestion	Clean mouth with water and drink afterwards plenty of water.	
Most important symptoms/effects, a	cts, acute and delayed	
Main Symptoms	Hives.	
Indication of immediate medical atte	dication of immediate medical attention and special treatment needed, if necessary	
Note to physicians	Treat symptomatically.	

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

Decomposition by contact with water may generate vapors which can be ignited by heat or open flame.

Specific hazards arising from the chemical

No information available.

Explosion data Sensitivity to Mechanical Impact none. Sensitivity to Static Discharge Yes.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective	equipment and emergency procedures		
Personal precautions	Ensure adequate ventilation.		
Environmental precautions			
Environmental precautions	Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.		
Methods and materials for contai	nment and cleaning up		
Methods for containment	Prevent further leakage or spillage if safe to do so.		
Methods for cleaning up	Pick up and transfer to properly labeled containers.		
	7. HANDLING AND STORAGE		
Precautions for safe handling			
Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice.		
Conditions for safe storage, including any incompatibilities			
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.		
Incompatible products	None known based on information supplied.		
8 EXPOSURE CONTROL S/PERSONAL PROTECTION			

Control parameters

Exposure Guidelines

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
ETHYL ALCOHOL 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m ³ (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m ³	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m³
METHYL N-AMYL KETONE FCC (2-Heptanone) 110-43-0	TWA: 50 ppm	TWA: 100 ppm TWA: 465 mg/m ³ (vacated) TWA: 100 ppm (vacated) TWA: 465 mg/m ³	IDLH: 800 ppm TWA: 100 ppm TWA: 465 mg/m ³

NIOSH IDLH: Immediately Dangerous to Life or Health

 Other Exposure Guidelines
 Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Exposure controls

Engineering Controls Showers Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

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Skin and body protection Chemical resistant apron.

Respiratory protectionIf exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.General Hygiene ConsiderationsHandle in accordance with good industrial hygiene and safety practice.		9 PHYSICAL AND CHEMICAL PROPERTIES	
respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be	General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice.	
	Respiratory protection	respiratory protection should be worn. Positive-pressure supplied air respirators ma required for high airborne contaminant concentrations. Respiratory protection must	

Physical and chemical properties

Physical state Appearance Odor Color	liquid clear typica colorle
Property	Value
рН	
Melting/freezing point	
Boiling point/boiling range	
Flash Point	31 °C
Evaporation rate	No inf
Flammability (solid, gas)	No inf
Flammability Limits in Air	
Upper flammability limit	No inf
lower flammability limit	No inf
Vapor pressure mm Hg 20°C	
Vapor density	
Specific Gravity @ 25C	0.946
Specific Gravity @ 20C	0.949
Refractive Index	1.383
Water solubility	Practi
Solubility in other solvents	
Partition coefficient: n-octanol/wate	
Autoignition temperature	No inf
Decomposition temperature	
Viscosity, kinematic	No inf
Viscosity, dynamic	No inf
Explosive properties	No inf
Oxidizing Properties	No inf
Other information	

Softening point Molecular Weight VOC Content(%) **Density VALUE Bulk Density VALUE** liquid al of white chocolate less to slightly yellow

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C / 87 °F formation available formation available

formation available formation available

- 0.976 - 0.979 1 - 1.4131 ically insoluble

formation available

formation available formation available formation available formation available

No information available No information available No information available No information available No information available

Method

No information available FCC Method FCC Method Closed cup No information available No information available 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

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to Avoid

Extremes of temperature and direct sunlight.

Incompatible Materials

None known based on information supplied.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Ingestion	There is no data available	There is no data available for this product.		
Skin contact	There is no data available for this product.			
Eye contact	There is no data available	There is no data available for this product.		
Inhalation	There is no data available	There is no data available for this product.		
Product Information	Product does not present a	an acute toxicity hazard based on	known information	

Chemical Name	Oral LD50	Dermal LD50	LC50 Inhalation
PROPYLENE GLYCOL	20000 mg/kg (Rat)	20800 mg/kg (Rabbit)	-
57-55-6			
ETHYL ALCOHOL 64-17-5	-	-	124.7 mg/L (Rat)4 h

Information on toxicological effects

Symptoms

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization	No information available.
Germ Cell Mutagenicity	No information available.
Carcinogenicity	This product contains one or more substances which are classified by IARC as
-	carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly
	carcinogenic to humans (Group 2B).

Chemical Name	ACGIH	IARC	NTP	OSHA
ETHYL ALCOHOL 64-17-5	A3	Group 1	Known	Х

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer) Group 1 - Carcinogenic to Humans

NTP (National Toxicology Program) Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity	No information available.
Specific target organ systemic	No information available.
toxicity (single exposure)	
Specific target organ systemic	No information available.
toxicity (repeated exposure)	
Chronic toxicity	May cause adverse liver effects. Contains a known or suspected reproductive toxin.
Target Organ Effects	Blood, Central nervous system, Eyes, Liver, Reproductive system, Respiratory system,
	Skin.
Aspiration hazard	No information available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document

. mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

18.781% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
ETHYL ALCOHOL 64-17-5		12.0 - 16.0: 96 h Oncorhynchus mykiss mL/L LC50 static 100: 96 h Pimephales promelas mg/L LC50 static 13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through		9268 - 14221: 48 h Daphnia magna mg/L LC50 2: 48 h Daphnia magna mg/L EC50 Static
VANILLIN 121-33-5		53 - 61.3: 96 h Pimephales promelas mg/L LC50 flow-through 88: 96 h Pimephales promelas mg/L LC50 static 57: 96 h Pimephales promelas mg/L LC50 semi-static		180: 24 h Daphnia magna mg/L EC50

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Chemical Name	log Pow
ETHYL ALCOHOL 64-17-5	-0.32
VANILLIN 121-33-5	1.23

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment

Waste Disposal Methods	It must undergo special treatment, e.g. at suitable disposal site, to comply with local regulations.
Contaminated packaging	Do not reuse container.
US EPA Waste Number	D001

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status	
ETHYL ALCOHOL	Toxic	
64-17-5	Ignitable	

14. TRANSPORT INFORMATION

DOT UN/ID No Proper shipping name Hazard class Packing Group ERG Code	1197 EXTRACTS, FLAVOURING, LIQUID 3 III 127
<u>ICAO/IATA</u> UN/ID No Proper shipping name Hazard class Packing Group ERG Code	1197 EXTRACTS, FLAVOURING, LIQUID 3 III 127
IMDG / IMO UN/ID No Proper shipping name Hazard class Packing Group	1197 EXTRACTS, FLAVOURING, LIQUID 3 III

15. REGULATORY INFORMATION

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

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances ENCS - Japan Existing and New Chemical Substances IECSC - China Inventory of Existing Chemical Substances KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	no
Chronic Health Hazard	no
Fire Hazard	Yes
Sudden Release of Pressure Hazard	no
Reactive Hazard	no

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	California Prop. 65	
ETHYL ALCOHOL - 64-17-5	Carcinogen	
	Developmental	

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
PROPYLENE GLYCOL 57-55-6	Х		Х
ETHYL ALCOHOL 64-17-5	Х	X	Х

U.S. EPA Label information

16. OTHER INFORMATION					
<u>NFPA</u>	Health Hazard 2	Flammability 3	Instability 0	Physical and chemical hazards *	
HMIS	Health Hazard 2	Flammability 3	Physical Hazard 0	Personal protection b	

Revision Date	13-Jan-2016	
Revision Note	No information available	

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Revision#

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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