# SAFETY DATA SHEET.



### Version 1.01

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

### 1.1. Product identifier

Number	708CBD	
Manufacturer	Apex Flavors, Inc. 1371 Brass Mill Rd Suite A Belcamp, MD 21017 (410) 565-6600	
Product name Pure substance/mixture	CHOCOLATE MILK TYPE FLAVOR, NATURAL AND ARTIFICIAL (OIL SOLUBLE) Mixture	
1.2. Relevant identified uses of the s	substance or mixture and uses advised against	
Recommended Use	Not for direct consumption	
1.3. Details of the supplier of the saf	ety 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

Acute oral toxicity	Category 5
Acute inhalation toxicity - dust/mist	Category 3
Serious eye damage/eye irritation	Category 2A
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) Xn - Harmful

R-code(s) Xn;R21

2.2. Label elements



### Signal Word

Danger

#### **Hazard Statements**

H303 - May be harmful if swallowed H331 - Toxic if inhaled H319 - Causes serious eye irritation

H227 - Combustible liquid

# Precautionary Statements

P321 - Specific treatment (see .? on this label)

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

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
BENZYL ALCOHOL	202-859-9	100-51-6		5-10%	Xn; R20/22	Acute Tox. 5 (H333) Acute Tox. 4 (H302)	No data available
ISOVALERALDEHYD E	Present	590-86-3		<1	-	Aquatic Acute 2 (H401) (EFFA) Skin Sens. 1 (H317) (EFFA) Eye Irrit. 1 (H319) (EFFA) Skin Irrit. 3 (316) (EFFA) Flam. Liq. 2 (H225) (EFFA) Acute Tox. 5 (H303)(EFFA)	No data available
5-METHYL-2-PHENYL -2-HEXENAL(COCAL)	Present	21834-92-4		<1	-	Skin Sens. 1 (H317) (EFFA)	No data available
METHYL N-AMYL KETONE FCC (2-Heptanone)	Present	110-43-0		<1	R10 Xn; R20/22	Acute Tox. 4 (H302) Acute Tox. 4 (H302) (EFFA) Flam. Liq. 3 (H226)(EFFA) Acute Tox. 4 (H332)(EFFA) Flam. Liq. 3 (H226) Acute Tox. 4 (H332)	No data available
DIMETHYL SULFIDE	200-846-2	75-18-3		<1	-	Skin Irrit. 3 (316) (EFFA) Acute Tox. 3 (H301) (EFFA) Flam. Liq. 2 (H225) (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 Do not breathe dust/fume/gas/mist/vapors/spray Do not get in eyes, on skin, or on clothing

# 708CBD CHOCOLATE MILK TYPE FLAVOR, NATURAL AND ARTIFICIAL (OIL SOLUBLE)

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	Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Ingestion	Rinse mouth. Drink plenty of water. If symptoms persist, call a physician. Do NOT induce vomiting.
Inhalation	Move to fresh air. Call a physician. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.
Self-protection of the first aider	Use personal protective equipment
4.2. Most important symptoms and	d 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 entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

### 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

Avoid contact with skin, eyes and clothing. Use personal protective equipment as required. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.

# 7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

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
ISOVALERALDEHYDE					TWA: 10 ppm
590-86-3					TWA: 39 mg/m <sup>3</sup>
METHYL N-AMYL KETONE	S*	STEL: 100 ppm STEL:		S*	TWA: 238 mg/m <sup>3</sup>
FCC (2-Heptanone)	TWA 50 ppm TWA	475 mg/m <sup>3</sup>	238 mg/m <sup>3</sup>	STEL: 100 ppm STEL:	
110-43-0	238 mg/m <sup>3</sup>	TWA: 50 ppm TWA:	STEL: 100 ppm STEL:	474 mg/m <sup>3</sup>	
	STEL 100 ppm STEL	237 mg/m <sup>3</sup>	475 mg/m <sup>3</sup>	TWA: 50 ppm TWA:	
	475 mg/m <sup>3</sup>	Skin		237 mg/m <sup>3</sup>	
DIMETHYL SULFIDE				VLA-ED: 10 ppm	
75-18-3					

Chemical Name	Italy	Portugal	The Netherlands	Finland	Denmark
BENZYL ALCOHOL 100-51-6				TWA: 10 ppm TWA: 45 mg/m <sup>3</sup>	
METHYL N-AMYL KETONE FCC (2-Heptanone) 110-43-0	TWA: 50 ppm TWA: 238 mg/m <sup>3</sup> STEL: 100 ppm STEL: 475 mg/m <sup>3</sup> Skin	TWA: 50 ppm	TWA: 233 mg/m <sup>3</sup>	TWA: 50 ppm TWA: 240 mg/m <sup>3</sup> STEL: 75 ppm STEL: 360 mg/m <sup>3</sup> Skin	TWA: 50 ppm TWA: 238 mg/m³ Skin
DIMETHYL SULFIDE 75-18-3		TWA: 10 ppm			

Chemical Name	Austria	Sweden - Occupational Exposure Limits - TLVs (LLVs)	Switzerland	Poland	Norway
BENZYL ALCOHOL 100-51-6				NDS: 240 mg/m <sup>3</sup>	
ISOVALERALDEHYDE 590-86-3	STEL 10 ppm STEL 39 mg/m <sup>3</sup> TWA: 10 ppm TWA: 39 mg/m <sup>3</sup> Ceiling 10 ppm Ceiling 39 mg/m <sup>3</sup>				
METHYL N-AMYL KETONE FCC (2-Heptanone) 110-43-0	Skin STEL 100 ppm STEL 473 mg/m <sup>3</sup> TWA: 50 ppm TWA: 237 mg/m <sup>3</sup>	25 ppm NGV 120 mg/m <sup>3</sup> NGV	TWA: 50 ppm TWA: 235 mg/m <sup>3</sup>	STEL: 475 mg/m <sup>3</sup> TWA: 238 mg/m <sup>3</sup>	TWA: 25 ppm TWA: 115 mg/m <sup>3</sup> Skin STEL: 37.5 ppm STEL: 143.75 mg/m <sup>3</sup>
DIMETHYL SULFIDE 75-18-3		1 ppm NGV			

Component	Ireland
METHYL N-AMYL KETONE FCC (2-Heptanone)	TWA: 50 ppm TWA: 238 mg/m <sup>3</sup>
110-43-0 ( <1 )	STEL: 100 ppm STEL: 475 mg/m <sup>3</sup>
	Skin
DIMETHYL SULFIDE	TWA: 20 ppm
75-18-3 ( <1 )	

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	Do not allow material to contaminate ground water system

# 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Physical state Odor	liquid milk chocolate		Appearance Color	clear Pale yellow
Property pH Melting/freezing poir Boiling point/boiling Flash Point Evaporation rate Flammability (solid, g Flammability Limits Upper flammability	range gas) in Air / 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	
lower flammability 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	0.9850 - 1.0150 0.988 - 1.018 1.4550 - 1.4850	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 8.45 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	0.587% 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 Dermal	3,812.00 mg/kg 12,506.00 mg/kg
Inhalation Mist Vapor	0.63 mg/l 138.00 mg/l
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
BENZYL ALCOHOL	35: 3 h Anabaena variabilis mg/L EC50	10: 96 h Lepomis macrochirus mg/L LC50 static 460: 96 h Pimephales promelas mg/L LC50 static	23: 48 h water flea mg/L EC50
ISOVALERALDEHYDE	80: 72 h Desmodesmus subspicatus mg/L EC50 78: 96 h Desmodesmus subspicatus mg/L EC50	•	177: 48 h Daphnia magna mg/L EC50

METHYL N-AMYL KETONE FCC (2-Heptanone)	126 - 137: 96 h Pimephales promelas mg/L LC50 flow-through	
DIMETHYL SULFIDE		23: 48 h Daphnia pulex mg/L EC50

### 12.2. Persistence and degradability

No information available

### 12.3. Bioaccumulative potential

No information available

Chemical Name	log Pow
BENZYL ALCOHOL	1.1
ISOVALERALDEHYDE	1.31
METHYL N-AMYL KETONE FCC (2-Heptanone)	1.98

#### 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	
Other Information	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific Waste codes should be assigned by the user based on the application for which the product was used	
14. TRANSPORT INFORMATION		
DOT/ADR	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	
BENZYL ALCOHOL	Hazard Class 1	
100-51-6		
ISOVALERALDEHYDE	Hazard Class 1	
590-86-3		

### 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**

### Risk Combination Phrases

R20/22 - Harmful by inhalation and if swallowed

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

H333 - May be harmful if inhaled H302 - Harmful if swallowed H226 - Flammable liquid and vapor H332 - Harmful if inhaled H317 - May cause an allergic skin reaction H401 - Toxic to aquatic life H319 - Causes serious eye irritation H225 - Highly flammable liquid and vapor H303 - May be harmful if swallowed H301 - Toxic if swallowed

Revision Date	03-Jan-2019
Revision Note	Not applicable.
Revision#	1.01

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

Food ingredients that are safe to be consumed in food products may pose hazards if not handled properly. This product is intended to be used in food products and, not intended to be consumed in its present form. 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.