



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

**1.1. Product identifier**

**Number** 705CBD

**Manufacturer** Apex Flavors, Inc.  
1371 Brass Mill Rd., Suite A  
Belcamp, MD 21017  
(410) 565-6600

**Product name** BUTTERSCOTCH TYPE, NATURAL FLAVOR BLEND (OIL SOLUBLE) #  
**Pure substance/mixture** 480 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 inhalation toxicity - dust/mist	Category 2
Serious eye damage/eye irritation	Category 2A
Acute aquatic toxicity	Not classified for acute
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**

Danger

**Hazard Statements**

H303 - May be harmful if swallowed  
H319 - Causes serious eye irritation  
H330 - Fatal if inhaled  
H411 - Toxic to aquatic life with long lasting effects

H226 - Flammable liquid and vapor

**Precautionary Statements**

P310 - Immediately call a POISON CENTER or doctor/ physician  
P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing  
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed  
P260 - Do not breathe dust/fume/gas/mist/vapors/spray  
P320 - Specific treatment is urgent (see .? on this label)  
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 %	Classification according to Directive 67/548/EEC or 1999/45/EC	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
ETHYL ALCOHOL	Present	64-17-5		20-30%	F; R11	Eye Irrit. 1 (H319) (EFFA) Flam. Liq. 2 (H225) (EFFA) Flam. Liq. 2 (H225)	No data available
BENZYL ALCOHOL	Present	100-51-6		15-20%	Xn; R20/22	Acute Tox. 4 (H302) Eye Irrit. 1 (H319) (EFFA) Acute Tox. 4 (H302) (EFFA) Acute Tox. 5 (H313)(EFFA) Acute Tox. 4 (H332)(EFFA) Eye Irrit. 1 (H319) Acute Tox. 4 (H302) Acute Tox. 5 (H313) Acute Tox. 4 (H332) Acute Tox. 4 (H332)	No data available



**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
ETHYL ALCOHOL 64-17-5		STEL: 3000 ppm STEL: 5760 mg/m <sup>3</sup> TWA: 1000 ppm TWA: 1920 mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup> STEL: 5000 ppm STEL: 9500 mg/m <sup>3</sup>	STEL: 1000 ppm STEL: 1910 mg/m <sup>3</sup>	TWA: 500 ppm TWA: 960 mg/m <sup>3</sup> Ceiling / Peak: 1000 ppm Ceiling / Peak: 1920 mg/m <sup>3</sup> Skin

Chemical Name	Italy	Portugal	The Netherlands	Finland	Denmark
ETHYL ALCOHOL 64-17-5		TWA: 1000 ppm	Skin STEL: 1900 mg/m <sup>3</sup> TWA: 260 mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup> STEL: 1300 ppm STEL: 2500 mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>
BENZYL ALCOHOL 100-51-6				TWA: 10 ppm TWA: 45 mg/m <sup>3</sup>	

Chemical Name	Austria	Sweden - Occupational Exposure Limits - TLVs (LLVs)	Switzerland	Poland	Norway
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/m <sup>3</sup> 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/m <sup>3</sup> STEL: 625 ppm STEL: 1187.5 mg/m <sup>3</sup>
BENZYL ALCOHOL 100-51-6				TWA: 240 mg/m <sup>3</sup>	

Component	Ireland
ETHYL ALCOHOL 64-17-5 ( 20-30% )	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 Tightly fitting safety goggles
- Hand Protection Protective gloves
- Skin and body protection Long sleeved clothing
- Respiratory protection 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	liquid	Appearance	clear
Odor	butterscotch	Color	yellow

<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	26 °C / 78 °F	Closed cup
Evaporation rate		FCC Method
Flammability (solid, gas)		No information available
Flammability Limits in Air		No information available
Upper flammability limit		
lower flammability limit		
Vapor pressure mm Hg 20°C		No information available
Vapor density		No information available
Relative density		No information available
Specific Gravity @ 25C	0.9308 - 0.9608	FCC Method
Specific Gravity @ 20C	0.9338 - 0.9638	FCC Method
Refractive Index	1.433 - 1.463	FCC Method
Water solubility		No information available
Partition coefficient: n-octanol/water		No information available
Autoignition temperature		No information available
Decomposition temperature		No information available
Viscosity, dynamic		No information available

Explosive properties No information available  
Oxidizing Properties No information available

**9.2. Other information**

VOC Content(%) 46.6676986850798  
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** 0.06% 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):

<b>Oral</b>	3,489.00 mg/kg
<b>Dermal</b>	12,196.00 mg/kg
<b>Mist</b>	0.25 mg/l
<b>Vapor</b>	55.00 mg/l

Chemical Name	Oral LD50	Dermal LD50	LC50 Inhalation
ETHYL ALCOHOL			124.7 mg/L ( Rat ) 4 h
BENZYL ALCOHOL	1230 mg/kg ( Rat )	2 g/kg ( Rabbit )	8.8 mg/L ( Rat ) 4 h
ACETYL PROPIONYL FCC (2,3 PENTANEDIONE)	3 g/kg ( Rat )	2500 mg/kg ( Rabbit )	

<b>Skin corrosion/irritation</b>	No information available
<b>Eye damage/irritation</b>	No information available
<b>Sensitization</b>	No information available
<b>Germ Cell Mutagenicity</b>	No information available
<b>Carcinogenicity</b>	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** 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
ETHYL ALCOHOL		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
BENZYL ALCOHOL	35: 3 h Anabaena variabilis mg/L EC50	460: 96 h Pimephales promelas mg/L LC50 static 10: 96 h Lepomis macrochirus mg/L LC50 static	23: 48 h water flea mg/L EC50

### 12.2. Persistence and degradability

No information available

### 12.3. Bioaccumulative potential

No information available

Chemical Name	log Pow
ETHYL ALCOHOL	-0.32
BENZYL ALCOHOL	1.1

### 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 III  
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
ETHYL ALCOHOL 64-17-5	Hazard Class 1
BENZYL ALCOHOL 100-51-6	Hazard Class 1
ACETYL PROPIONYL FCC (2,3 PENTANEDIONE) 600-14-6	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), 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**

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

H302 - Harmful if swallowed H319 - Causes serious eye irritation H313 - May be harmful in contact with skin H332 - Harmful if inhaled H373 - May cause damage to organs (a,b,c) through prolonged or repeated exposure if inhaled H317 - May cause an allergic skin reaction H318 - Causes serious eye damage H225 - Highly flammable liquid and vapor H303 - May be harmful if swallowed



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<b>Revision Date</b>	27-Jan-2016
<b>Revision Note</b>	Not applicable.
<b>Revision#</b>	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.**