SAFETY DATA SHEET.



Version 1

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

1.1. Product identifier

Number	728CON			
Manufacturer	Apex Flavors, Inc. 1371 Brass Mill Rd. Suite A Belcamp, MD 21017 (410) 565-6600			
Product name	CHOCOLATE FUDGE BROWNIE TYPE, NATURAL FLAVOR BLEND (OIL SOLUBLE)			
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

Acute oral toxicity	Category 5
Acute inhalation toxicity - dust/mist	Category 2
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 Danger

Hazard Statements

H303 - May be harmful if swallowed H330 - Fatal if inhaled

H227 - Combustible liquid

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)

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

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

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

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
ISOVALERALDEHYDE					TWA: 10 ppm
590-86-3					TWA: 39 mg/m ³

728CON CHOCOLATE FUDGE BROWNIE TYPE, NATURAL FLAVOR BLEND (OIL SOLUBLE)

Chemical Name	Italy	Portugal	The Netherlands	Finland	Denmark
BENZYL ALCOHOL				TWA: 10 ppm TWA:	
100-51-6				45 mg/m ³	

Chemical Name	Austria	Sweden - Occupational Exposure Limits - TLVs (LLVs)	Switzerland	Poland	Norway
BENZYL ALCOHOL 100-51-6				NDS: 240 mg/m ³	
ISOVALERALDEHYDE 590-86-3	STEL 10 ppm STEL 39 mg/m ³ TWA: 10 ppm TWA: 39 mg/m ³ Ceiling 10 ppm Ceiling 39 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

clear Pale yellow

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state Odor	liquid characteristic of chocolate fudge	Appearance Color
Property pH Melting/freezing poin Boiling point/boiling Flash Point Evaporation rate Flammability (solid, Flammability Limits Upper flammability lower flammability	range 93 °C / 200 °F gas) in Air y limit	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 tempera Decomposition temp Viscosity, dynamic	Hg 20°C 5C 0.9327 - 0.9627 0C 0.9357 - 0.9657 1.4539 - 1.4839 n-octanol/water ature	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	
9.2. Other information VOC Content(%) Molecular Weight	n 6.50400001136586 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	44.264% 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	3,797.00 mg/kg 15,929.00 mg/kg
Inhalation	
Mist	0.47 mg/l
Vapor	102.00 mg/l

Chemical Name	Oral LD50	Dermal LD50	LC50 Inhalation
BENZYL ALCOHOL	1230 mg/kg (Rat)	2000 mg/kg (Rabbit)	8.8 mg/L (Rat) 4 h
ISOVALERALDEHYDE	5600 mg/kg (Rat)	2730 mg/kg (Rabbit)	42700 mg/m ³ (Rat) 4 h
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
	80: 72 h Desmodesmus subspicatus mg/L EC50 78: 96 h Desmodesmus subspicatus mg/L EC50		177: 48 h Daphnia magna 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

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
BENZYL ALCOHOL 100-51-6	Hazard Class 1
ISOVALERALDEHYDE 590-86-3	Hazard Class 1

International Inventories

All of the components in the product are on the following Inventory lists: No information available.

TSCA

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
ALCS - 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

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

Revision Date	11-Apr-2016
Revision Note	Not applicable.
Revision#	1

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

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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