



This safety data sheet complies with the requirements of:  
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision Date 06-Aug-2019

Version 1

## Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

**Product Code(s)** 733CBD  
**Product name** RED VELVET CAKE 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** Ingredient for further processing

**Uses advised against** No information available

### 1.3. Details of the supplier of the safety data sheet

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

#### 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

## Section 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

REGULATION (EC) No 1272/2008

<b>Acute toxicity - Inhalation (Vapors)</b>	Category 4 - (H332)
<b>Acute toxicity - Inhalation (Dusts/Mists)</b>	Category 2 - (H330)

### 2.2. Label elements

**Product identifier**  
Contains BENZYL ALCOHOL



**Signal Word**  
Danger

**Hazard Statements**

H330 - Fatal if inhaled

**Precautionary Statements - EU (§28, 1272/2008)**

P310 - Immediately call a POISON CENTER or doctor

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

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

P320 - Specific treatment is urgent (see .? on this label)

**2.3. Other information**

No information available

**Section 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Substances**

Chemical Name	EC-No	CAS-No	Weight %	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
BENZYL ALCOHOL	202-859-9	100-51-6	5-10%	Acute Tox. 5 (H333) Acute Tox. 4 (H302)	No data available
PROPIONIC ACID	201-176-3	79-09-4	<1%	Skin Corr. 1B (314) (EFFA) Eye Dam. 1 (H318) (EFFA) Acute Tox. 5 (H303)(EFFA) Flam. Liq. 3 (H226)(EFFA) Skin Corr. 1B (H314) Eye Dam. 1 (H318)	No data available
HELIOTROPINE	204-409-7	120-57-0	<1%	Skin Sens. 1 (H317) (EFFA) Acute Tox. 5 (H303)(EFFA) Aquatic Acute 2 (H401)(EFFA)	No data available
METHYL N-AMYL KETONE FCC (2-Heptanone)	Present	110-43-0	<1%	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

**For the full text of the R-phrases mentioned in this Section, see Section 16****Full text of H- and EUH-phrases: see section 16****Section 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.

**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.

**Skin contact**

Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

**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.

**Ingestion**

Rinse mouth. Drink plenty of water. If symptoms persist, call a physician. Do NOT induce vomiting.

**Self-protection of the first aider** Use personal protective equipment.

**4.2. Most important symptoms and effects, both acute and delayed**

**Main Symptoms** No information available.

**4.3. Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

**Section 5: FIRE FIGHTING MEASURES**

**5.1. Extinguishing media**

**Suitable Extinguishing Media**

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

**Unsuitable extinguishing media**

No information available

**5.2. Special hazards arising from the substance or mixture**

Thermal decomposition can lead to release of irritating gases and vapors

**5.3. Advice for firefighters**

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment.

**Section 6: ACCIDENTAL RELEASE MEASURES**

**6.1. Personal precautions, protective equipment and emergency procedures**

**Personal precautions**

Ensure adequate ventilation.

**For emergency responders**

Use personal protection recommended in Section 8.

**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**

**Methods for containment**

Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up**

Cover liquid spill with sand, earth or other noncombustible absorbent material. Cover powder spill with plastic sheet or tarp to minimize spreading. Pick up and transfer to properly labeled containers.

**6.4. Reference to other sections**

See section 8 for more information. See section 13 for more information.

**Section 7: HANDLING AND STORAGE**

**7.1. Precautions for safe handling**

**Advice on 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.

**General Hygiene Considerations**

Handle in accordance with good industrial hygiene and safety practice.

**7.2. Conditions for safe storage, including any incompatibilities**

**Storage Conditions**

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

**Incompatible products**

None known based on information supplied.

**7.3 Specific end use(s)**

**Risk Management Methods (RMM)**

The information required is contained in this Material Safety Data Sheet.

**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

Chemical Name	European Union	The United Kingdom	France	Spain	Germany
PROPIONIC ACID 79-09-4	TWA 10 ppm TWA 31 mg/m <sup>3</sup> STEL 20 ppm STEL 62 mg/m <sup>3</sup>	STEL: 15 ppm STEL: 46 mg/m <sup>3</sup> TWA: 10 ppm TWA: 31 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 31 mg/m <sup>3</sup> STEL: 20 ppm STEL: 62 mg/m <sup>3</sup>	STEL: 20 ppm STEL: 62 mg/m <sup>3</sup> TWA: 10 ppm TWA: 31 mg/m <sup>3</sup>	-
METHYL N-AMYL KETONE FCC (2-Heptanone) 110-43-0	S* TWA 50 ppm TWA 238 mg/m <sup>3</sup> STEL 100 ppm STEL 475 mg/m <sup>3</sup>	STEL: 100 ppm STEL: 475 mg/m <sup>3</sup> TWA: 50 ppm TWA: 237 mg/m <sup>3</sup> Skin	TWA: 50 ppm TWA: 238 mg/m <sup>3</sup> STEL: 100 ppm STEL: 475 mg/m <sup>3</sup>	S* STEL: 100 ppm STEL: 474 mg/m <sup>3</sup> TWA: 50 ppm TWA: 237 mg/m <sup>3</sup>	-
Chemical Name	Italy	Portugal	The Netherlands	Finland	Denmark
BENZYL ALCOHOL 100-51-6	-	-	-	TWA: 10 ppm TWA: 45 mg/m <sup>3</sup>	-
PROPIONIC ACID 79-09-4	TWA: 10 ppm TWA: 31 mg/m <sup>3</sup> STEL: 20 ppm STEL: 62 mg/m <sup>3</sup>	STEL: 20 ppm STEL: 62 mg/m <sup>3</sup> TWA: 10 ppm TWA: 31 mg/m <sup>3</sup>	STEL: 62 mg/m <sup>3</sup> TWA: 31 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 31 mg/m <sup>3</sup> STEL: 20 ppm STEL: 61 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 31 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/m <sup>3</sup> Skin
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
BENZYL ALCOHOL 100-51-6	-	-	NDS: 240 mg/m <sup>3</sup>	-	-
PROPIONIC ACID 79-09-4	STEL 20 ppm STEL 62 mg/m <sup>3</sup> TWA: 10 ppm TWA: 31 mg/m <sup>3</sup>	STEL: 20 ppm STEL: 60 mg/m <sup>3</sup> TWA: 10 ppm TWA: 30 mg/m <sup>3</sup>	STEL: 45 mg/m <sup>3</sup> TWA: 30 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 30 mg/m <sup>3</sup> STEL: 20 ppm STEL: 45 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 31 mg/m <sup>3</sup> STEL: 20 ppm STEL: 62 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>	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>	TWA: 50 ppm TWA: 238 mg/m <sup>3</sup> STEL: 100 ppm STEL: 475 mg/m <sup>3</sup> Skin

**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/face protection** Tightly fitting safety goggles.

**Skin and body protection** Long sleeved clothing.

**Respiratory protection** NIOSH/MSHA approved respiratory protection is required to be worn.

**Environmental Exposure Controls** Do not allow material to contaminate ground water system.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

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

**Physical state** liquid

**Appearance** clear

**Aroma** Vanilla creamy bakery notes

**Color** yellow

Property	Values	• Method
pH		No information available
Melting/freezing point		No information available
Boiling point/boiling range		FCC Method
Flash Point	93 °C / 200 °F	Closed cup
Evaporation rate		FCC Method
Flammability (solid, gas)		No information available
Flammability Limits in Air		
Upper flammability limit		No information available
lower flammability limit		No information available
Vapor pressure mm Hg 20°C		No information available
Vapor density		No information available
Relative density		No information available
Specific Gravity @ 25C	0.9378 - 0.9678	FCC Method
Specific Gravity @ 20C	0.9408 - 0.9708	FCC Method
Refractive Index	1.4475 - 1.4775	FCC Method
Water solubility		No information available
Solubility in other solvents		No information available
Partition coefficient: n-octanol/water		No information available
Autoignition temperature		No information available
Decomposition temperature		No information available
Viscosity, kinematic		No information available
Viscosity, dynamic		No information available
Explosive properties	No information available	
Oxidizing Properties	No information available	

**9.2. Other information**

**Softening point** No information available

**Molecular Weight** No information available

**VOC Content(%)** No information available

**Density VALUE** No information available

**Bulk Density VALUE** No information available

**Section 10: STABILITY AND REACTIVITY**

**10.1. Reactivity**

No data available.

**10.2. Chemical stability**

Stable under normal conditions.

Explosion data

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

**10.3. Possibility of hazardous reactions**

**Hazardous Reactions**

None under normal processing.

**10.4. Conditions to avoid**

None known.

**10.5. Incompatible materials**

No information available.

**10.6. Hazardous decomposition products**

None under normal use conditions.

**Section 11: TOXICOLOGICAL INFORMATION**

**11.1. Information on toxicological effects**

**Acute toxicity**

**Product Information**

Product does not present an acute toxicity hazard based on known or supplied information.

**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.

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

**ATEmix (oral)** 4,183.00 mg/kg  
**ATEmix (dermal)** 3,526.00 mg/kg  
**ATEmix (inhalation-dust/mist)** 0.08 mg/l  
**ATEmix (inhalation-vapor)** 18.00 mg/l

**Unknown Acute Toxicity**

96.925% of the mixture consists of ingredient(s) of unknown toxicity.  
24.425 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.  
89.425 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.  
96.925 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).  
91.925 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).  
91.925 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

**Oral LD50**

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

**Skin corrosion/irritation** No information available.

**Eye damage/irritation** No information available.

**Sensitization** No information available.

<b>Germ Cell Mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<b>Reproductive toxicity</b>	No information available.
<b>Specific target organ systemic toxicity (single exposure)</b>	No information available.
<b>Specific target organ systemic toxicity (repeated exposure)</b>	No information available.
<b>Aspiration hazard</b>	No information available.

**Section 12: ECOLOGICAL INFORMATION**

**12.1. Toxicity**

24.998% of the mixture consists of component(s) of unknown hazards to the aquatic environment

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
PROPIONIC ACID	45.8: 72 h Desmodesmus subspicatus mg/L EC50 43: 96 h Desmodesmus subspicatus mg/L EC50	1: 96 h Pimephales promelas mg/L LC50 static 73 - 99.7: 96 h Lepomis macrochirus mg/L LC50 static 51: 96 h Oncorhynchus mykiss mg/L LC50 static	-
METHYL N-AMYL KETONE FCC (2-Heptanone)	-	126 - 137: 96 h Pimephales promelas mg/L LC50 flow-through	-

**12.2. Persistence and degradability**

No information available.

**12.3. Bioaccumulative potential**

No information available.

Chemical Name	log Pow
BENZYL ALCOHOL	1.1
PROPIONIC ACID	0.33
METHYL N-AMYL KETONE FCC (2-Heptanone)	1.98

**12.4. Mobility in soil**

**Mobility in soil**

No information available.

**12.5. Results of PBT and vPvB assessment**

No information available.

**12.6. Other adverse effects**

No information available

## Section 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations.
<b>Contaminated packaging</b>	Empty remaining contents.
<b>Other Information</b>	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.

## Section 14: TRANSPORT INFORMATION

### IMDG / IMO

<b>14.1 UN/ID No</b>	Not regulated
<b>14.2 Proper shipping name</b>	Not regulated
<b>14.3 Hazard class</b>	Not regulated
<b>14.4 Packing Group</b>	Not regulated

Not regulated

### DOT/ADR/RID

<b>14.1 UN/ID No</b>	Not regulated
<b>14.2 Proper shipping name</b>	Not regulated
<b>14.3 Hazard class</b>	Not regulated
<b>14.4 Packing Group</b>	Not regulated

### ICAO/IATA

<b>14.1 UN/ID No</b>	Not regulated
<b>14.2 Proper shipping name</b>	Not regulated
<b>14.3 Hazard class</b>	Not regulated
<b>14.4 Packing Group</b>	Not regulated
<b>14.5 Environmental hazard</b>	Not applicable
<b>14.6 Special Provisions</b>	None

## Section 15: REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

#### **Authorizations and/or restrictions on use:**

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

#### **Persistent Organic Pollutants**

Not applicable



Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

**International Inventories**

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

**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

**15.2. Chemical safety assessment**

No information available

**Section 16: OTHER INFORMATION**

**Key or legend to abbreviations and acronyms used in the safety data sheet**

**Full text of R-phrases referred to under sections 2 and 3**

R27 - Very toxic in contact with skin  
R22 - Harmful if swallowed  
R21 - Harmful in contact with skin  
R20/22 - Harmful by inhalation and if swallowed

**Full text of H-Statements referred to under section 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  
H303 - May be harmful if swallowed  
H401 - Toxic to aquatic life  
H318 - Causes serious eye damage  
H314 - Causes severe skin burns and eye damage

**Legend**

SVHC: Substances of Very High Concern for Authorization:

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA: Time weighted average STEL: Short term exposure limit  
Ceiling: Maximum limit value: \* Skin designation

Revision Date 06-Aug-2019

Reason for revision: Not applicable.

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.