# APEX FLAVORS, INC.

# SAFETY DATA SHEET.



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

Revision Date 08-Jul-2019 Version 1

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

1.1. Product identifier

Product Code(s) 741CBD

Product name CINNAMON FLAVOR NATURAL WONF (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

Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Skin sensitization	Category 1 - (H317)

#### 2.2. Label elements

**Product identifier** 

Contains CINNAMIC ALDEHYDE



#### **Hazard Statements**

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

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

P280 - Wear eye protection/ face protection P321 - Specific treatment (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
CINNAMIC ALDEHYDE	203-213-9	104-55-2	5-10%	Aquatic Acute 2 (H401) (EFFA) Skin Sens. 1 (H317) (EFFA) Eye Irrit. 1 (H319) (EFFA) Skin Irrit. 2 (315) (EFFA) Acute Tox. 5 (H303)(EFFA) Acute Tox. 4 (H312)(EFFA)	No data available
COUMARIN	202-086-7	91-64-5	<1%	STOT RE 2 (H373) Aquatic Acute 3 (H402) Skin Sens. 1 (H317) Acute Tox. 4 (H302)	No data available
EUGENOL	202-589-1	97-53-0	<1%	Aquatic Acute 2 (H401) Skin Sens. 1 (H317) Eye Irrit. 1 (H319) Skin Irrit. 3 (H316) Acute Tox. 5 (H303)	No data available
BENZALDEHYDE	202-860-4	100-52-7	<1%	Aquatic Acute 2 (H401) Skin Irrit. 3 (H316) Acute Tox. 4 (H302) Acute Tox. 5 (H313) Flam. Liq. 4 (H227)	No data available
CINNAMIC ALCOHOL	203-212-3	104-54-1	<1%	Skin Sens. 1 (H317) Acute Tox. 5 (H303)	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

**Inhalation** Move to fresh air. If symptoms persist, call a physician.

**Skin contact** Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists,

call a physician. Wash off immediately with soap and plenty of water.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If

symptoms persist, call a physician.

Ingestion Do NOT induce vomiting. Drink plenty of water. Immediate medical attention is not required.

Rinse mouth.

**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** May cause sensitization in susceptible persons.

# 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 In the event of fire and/or explosion do not breathe fumes May cause sensitization in susceptible persons

# 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**

Use personal protective equipment. Avoid contact with eyes and skin.

#### 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 Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

After cleaning, flush away traces with water. Prevent product from entering drains.

# 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

Ensure adequate ventilation. Use personal protective equipment as required.

## **General Hygiene Considerations**

When using, do not eat, drink or smoke. Wash contaminated clothing before reuse.

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

#### **Storage Conditions**

Keep out of the reach of children. Keep container tightly closed. Keep containers tightly closed in a cool, well-ventilated place.

#### 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	Italy	Portugal	The Netherlands	Finland	Denmark
BENZALDEHYDE	=	-	-	TWA: 1 ppm TWA: 4.4	-
100-52-7				mg/m³	
				STEL: 4 ppm STEL:	
				17.4 mg/m <sup>3</sup>	
				Ceiling: 4 ppm Ceiling:	
				17.4 mg/m <sup>3</sup>	
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
BENZALDEHYDE	-	-	NDSCh: 40 mg/m <sup>3</sup>	=	=
100-52-7			NDS: 10 mg/m <sup>3</sup>		

**Derived No Effect Level (DNEL)**No information available.

Predicted No Effect Concentration No information available.

(PNEC)

8.2. Exposure controls

**Engineering Controls** Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

**Eye/face protection Skin and body protection**Tightly fitting safety goggles.

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 typical of cinnamon Very pale yellow

Property Values • Method

pH No information available

Melting/freezing point No information available

Boiling point/boiling range FCC Method

Flash Point93 °C / 200 °FClosed cupEvaporation rateFCC Method

Flammability (solid, gas)

No information available
Flammability Limits in Air

Upper flammability limit
Iower flammability limit
Vapor pressure mm Hg 20°C
No information available
No information available

Vapor pressure mm Hg 20°C

Vapor density

Relative density

No information available

No information available

 Specific Gravity @ 25C
 0.9422 - 0.9722
 FCC Method

 Specific Gravity @ 20C
 0.9452 - 0.9752
 FCC Method

Refractive Index 1.3205 - 1.3505 FCC Method

Water colubility No information

Water solubility
Solubility in other solvents
No information available
No information available

Partition coefficient: n-octanol/waterNo information availableAutoignition temperatureNo information availableDecomposition temperatureNo information available

Viscosity, kinematicNo information availableViscosity, dynamicNo information available

Explosive properties No information available Oxidizing Properties No information available

9.2. Other information

Softening point
Molecular Weight
VOC Content(%)
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.

InhalationThere is no data available for this product.Eye contactThere is no data available for this product.Skin contactThere is no data available for this product.IngestionThere is no data available for this product.

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

**ATEmix (oral)** 4,582.00 mg/kg **ATEmix (dermal)** 2,228.00 mg/kg

**Unknown Acute Toxicity** 

99.0298% of the mixture consists of ingredient(s) of unknown toxicity.

0.7298 % of the mixture consists of ingredient(s) of unknown acute oral toxicity. 90.5298 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

99.0298 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas). 99.0298 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor). 99.0298 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

#### Oral LD50

Chemical Name	Oral LD50	Dermal LD50	LC50 Inhalation
CINNAMIC ALDEHYDE	2200 mg/kg (Rat)	2000 mg/kg (Rat) 2000 mg/kg (	
		Rabbit )	

Skin corrosion/irritation No information available.

Eye damage/irritation No information available.

**Sensitization** No information available.

Germ Cell Mutagenicity No information available.

**Carcinogenicity** No information available.

**Reproductive toxicity**No information available.

Specific target organ systemic

toxicity (single exposure)

No information available.

Specific target organ systemic toxicity (repeated exposure)

No information available.

**Aspiration hazard** No information available.

# **Section 12: ECOLOGICAL INFORMATION**

12.1. Toxicity

**Ecotoxicity** Harmful to aquatic life

0.7298% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
BENZALDEHYDE	-	0.8-1.44: 96 h Lepomis macrochirus	50: 24 h Daphnia magna mg/L
		mg/L LC50 flow-through 10.6-11.8:	EC50
		96 h Oncorhynchus mykiss mg/L	
		LC50 flow-through 12.69: 96 h	
		Oncorhynchus mykiss mg/L LC50	
		static 6.8-8.53: 96 h Pimephales	
		promelas mg/L LC50 flow-through	
		7.5: 96 h Lepomis macrochirus	
		mg/L LC50 static	

## 12.2. Persistence and degradability

No information available.

## 12.3. Bioaccumulative potential

No information available.

Chemical Name	log Pow
CINNAMIC ALDEHYDE	2.22
BENZALDEHYDE	1.48

## 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

Waste from residues / unused

products

Dispose of in accordance with local regulations.

Contaminated packaging Empty remaining contents.

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

14.1 UN/ID No
Not regulated

#### Not regulated

# DOT/ADR/RID

14.1 UN/ID NoNot regulated14.2 Proper shipping nameNot regulated14.3 Hazard classNot regulated14.4 Packing GroupNot regulated

## ICAO/IATA

14.1UN/ID NoNot regulated14.2Proper shipping nameNot regulated14.3Hazard classNot regulated14.4Packing GroupNot regulated14.5Environmental hazardNot applicable

14.6 Special Provisions 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

Complies **TSCA DSL/NDSL** Complies **EINECS/ELINCS** Complies **ENCS** Complies **IECSC** Complies Complies **KECL** Complies **PICCS** Complies **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

R21 - Harmful in contact with skin

R43 - May cause sensitization by skin contact

R22 - Harmful if swallowed

#### Full text of H-Statements referred to under section 3

H401 - Toxic to aquatic life

H316 - Causes mild skin irritation

H302 - Harmful if swallowed

H313 - May be harmful in contact with skin

H227 - Combustible liquid

H317 - May cause an allergic skin reaction

H303 - May be harmful if swallowed

H319 - Causes serious eye irritation

H312 - Harmful in contact with skin

H373 - May cause damage to organs through prolonged or repeated exposure if inhaled

H402 - Harmful to aquatic life

## 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 08-Jul-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.