





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

Revision Date 09-Jul-2019

Version 1.01

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

| Product Code(s) | 808BEV | |
|---|---|--|
| Product name | CHIPOTLE CHILI EXTRACT, NATURAL | |
| | | |
| 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 sa | fety 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 | |
|-----------------------------------|----------------------|
| Serious eye damage/eye irritation | Category 2 - (H319) |
| Carcinogenicity | Category 1A - (H350) |
| Chronic aquatic toxicity | Category 3 - (H412) |
| Flammable liquids | Category 3 - (H226) |



Danger

Hazard Statements

H319 - Causes serious eye irritation
H350 - May cause cancer
H412 - Harmful to aquatic life with long lasting effects
H226 - Flammable liquid and vapor
Contains ALPHA PINENE EUH208 - May produce an allergic reaction

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

P201 - Obtain special instructions before use
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P308 + P313 - IF exposed or concerned: Get medical advice/attention
P370 + P378 - In case of fire: Use .? to extinguish
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P273 - Avoid release to the environment

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 |
|---------------|-----------|----------|----------|--|---------------------------------|
| ETHYL ALCOHOL | 200-578-6 | 64-17-5 | 50-90% | Flam. Liq. 2 (H225) Eye Irrit. 1 (H319) | No data available |
| ALPHA PINENE | 201-291-9 | 80-56-8 | <1% | Skin Sens. 1 (H317) (EFFA) Skin Irrit. 2 (315) (EFFA) Asp. Tox. 1 (H304) (EFFA) Acute Tox. 5 (H303)(EFFA) Flam. Liq. 3 (H226)(EFFA) Skin Sens. 1 (H317) Skin Irrit. 2 (H315) Acute Tox. 5 (H303) | No data available |
| CAPSAICIN | 206-969-8 | 404-86-4 | <1% | Eye Dam. 1 (H318) Skin Irrit. 2 (H316) Acute Tox. 3 (H301) | 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. |
|----------------------------------|---|
| Skin contact | It is suggested that you use the following blend to clean the affected area: 50% Polysorbate, 40% Propylene Glycol and 10% water. |
| Eye contact | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. |
| Ingestion | Clean mouth with water and drink afterwards plenty of water. |
| 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

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 Take up mechanically, placing in appropriate containers for disposal.

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.

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.

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 |
|---------------|------------------------|------------------------------|------------------------------|--------------------------------|------------------------|
| ETHYL ALCOHOL | - | STEL: 3000 ppm | VME: 1000 ppm VME: | VLA-ED: 1000 ppm | - |
| 64-17-5 | | STEL: 5760 mg/m ³ | 1900 mg/m ³ | VLA-ED: 1910 mg/m ³ | |
| | | TWA: 1000 ppm TWA: | VLCT: 5000 ppm | | |
| | | 1920 mg/m ³ | VLCT: 9500 mg/m ³ | | |
| ALPHA PINENE | - | - | TWA: 1000 mg/m ³ | TWA: 20 ppm | - |
| 80-56-8 | | | STEL: 1500 mg/m ³ | TWA: 113 mg/m ³ | |
| Chemical Name | Italy | Portugal | The Netherlands | Finland | Denmark |
| ETHYL ALCOHOL | - | TWA: 1000 ppm | Skin | TWA: 1000 ppm TWA: | TWA: 1000 ppm TWA: |
| 64-17-5 | | | STEL: 1900 mg/m ³ | 1900 mg/m ³ | 1900 mg/m³ |
| | | | TWA: 260 mg/m ³ | STEL: 1300 ppm | |
| | | | | STEL: 2500 mg/m ³ | |
| ALPHA PINENE | - | TWA: 20 ppm | - | - | - |
| 80-56-8 | | | | | |
| Chemical Name | Austria | Switzerland | Poland | Norway | Ireland |
| ETHYL ALCOHOL | STEL 2000 ppm STEL | STEL: 1000 ppm | NDS: 1900 mg/m ³ | TWA: 500 ppm TWA: | TWA: 1000 ppm TWA: |
| 64-17-5 | 3800 mg/m ³ | STEL: 1920 mg/m ³ | - | 950 mg/m ³ | 1900 mg/m ³ |
| | MAK: 1000 ppm MAK: | MAK: 500 ppm MAK: | | STEL: 625 ppm STEL: | |
| | 1900 mg/m ³ | 960 mg/m ³ | | 1187.5 mg/m ³ | |
| ALPHA PINENE | - | - | - | TWA: 25 ppm | - |
| 80-56-8 | | | | TWA: 140 mg/m ³ | |
| | | | | Skin | |
| | | | | STEL: 37.5 ppm | |
| | | | | STEL: 175 mg/m ³ | |

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 | 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 No information available.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| Physical state | liquid |
|----------------|----------------------------|
| Appearance | clear |
| Aroma | characteristic of chipotle |

| Color | yellow | |
|--|--------------------------|--|
| Property | Values | • Method |
| pH Malting/freesing point | | No information available |
| Melting/freezing point | | No information available FCC Method |
| Boiling point/boiling range Flash Point | 24 °C / 75 °F | Closed cup |
| Evaporation rate | 24 67751 | 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 | 0.8922 - 0.9222 | FCC Method |
| Specific Gravity @ 20C | 0.8952 - 0.9252 | FCC Method |
| Refractive Index | 1.3499 - 1.3799 | FCC Method |
| Water solubility | | No information available |
| Solubility in other solvents | | No information available |
| Partition coefficient: n-octanol/wate | er | No information available |
| Autoignition temperature | | No information available |
| Decomposition temperature | | No information available |
| Viscosity, kinematic | | No information available |
| Viscosity, dynamic | No information available | No information available |
| Explosive properties | No information available | |
| Oxidizing Properties | | |
| 9.2. Other information | | |
| Softoning point | No information available | |

Softening point Molecular Weight VOC Content(%) Density VALUE Bulk Density VALUE No information available No information available No information available No information available 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) | 3,815.00 mg/kg | | | |
|---|-----------------|--|--|--|
| ATEmix (dermal) | 10,576.00 mg/kg | | | |
| ATEmix (inhalation-dust/mist) | 68,083.90 mg/l | | | |
| Unknown Acute Toxicity | | | | |
| 98.344% of the mixture consists of ingredient(s) of unknown toxicity. | | | | |
| 38.844 % of the mixture consists of ingredient(s) of unknown acute oral toxicity. | | | | |

96.859 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

98.344 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

98.344 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).

40.329 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Oral LD50

| Chemical Name | Oral LD50 | Dermal LD50 | LC50 Inhalation |
|---|-------------------------------------|-----------------------------------|-----------------------------|
| ETHYL ALCOHOL | 7060 mg/kg (Rat) | | 124.7 mg/L (Rat)4 h |
| ALPHA PINENE | = 2100 mg/kg (Rat) | > 5000 mg/kg (Rat) | |
| 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. | | |
| Target Organ Effects | Blood, Central nervous sys Skin. | stem, Eyes, Liver, Reproductive s | system, Respiratory system, |
| Aspiration hazard | No information available. | | |

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity

Toxic to aquatic life Harmful to aquatic life with long lasting effects

38.844% 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 |
|---------------|-------------------|---|--|
| 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 10800: 24 h Daphnia magna mg/L EC50 2: 48 h Daphnia magna mg/L EC50 Static |
| ALPHA PINENE | - | 0 | 41: 48 h Daphnia magna mg/L LC50 |

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

| Chemical Name | log Pow |
|---------------|---------|
| ETHYL ALCOHOL | -0.32 |
| ALPHA PINENE | 4.1 |

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. |

Section 14: TRANSPORT INFORMATION

IMDG / IMO

| 14.1 UN/ID No14.2 Proper shipping name14.3 Hazard class14.4 Packing Group | 1197 EXTRACTS, FLAVOURING, LIQUID 3 III |
|--|--|
| DOT/ADR/RID 14.1 UN/ID No 14.2 Proper shipping name 14.3 Hazard class 14.4 Packing Group | 1197 EXTRACTS, FLAVOURING, LIQUID 3 III |
| ICAO/IATA 14.1 UN/ID No 14.2 Proper shipping name 14.3 Hazard class 14.4 Packing Group 14.5 Environmental hazard 14.6 Special Provisions | 1197 EXTRACTS, FLAVOURING, LIQUID 3 III Not applicable 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 | Complies |
| DSL/NDSL | Complies |
| EINECS/ELINCS | Complies |
| ENCS | Complies |
| IECSC | - |
| KECL | - |
| PICCS | - |
| AICS | Complies |

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

R25 - Toxic if swallowed

Full text of H-Statements referred to under section 3

- H318 Causes serious eye damage
- H316 Causes mild skin irritation
- H301 Toxic if swallowed
- H225 Highly flammable liquid and vapor
- H319 Causes serious eye irritation
- H317 May cause an allergic skin reaction
- H304 May be fatal if swallowed and enters airways
- H303 May be harmful if swallowed
- H226 Flammable liquid and vapor
- H315 Causes skin irritation

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 | 09-Jul-2019 | | |

Reason for revision: Not applicable.

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

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