



SAFETY DATA SHEET.

This safety data sheet complies with the requirements of: OSHA CFR Title 29 CFR 1910.1200

Version 1

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

Product identifier

Product Code(s) 829TTB

Product name Wild Blueberry Type, Natural Flavor Blend

Recommended use of the chemical and restrictions on use
Recommended Use
Uses advised against
No information available.
No information available

Manufacturer Apex Flavors, Inc. Trilogy

1371 Brass Mill Rd

Suite A

Belcamp, MD 21017 410-565-6600

Emergency telephone

Chemtrec: 1-800-424-9300 for US/ 703-527-3887 outside US

2. HAZARDS IDENTIFICATION

Classification

Skin Sensitization	Category 1
Carcinogenicity	Category 1A
Flammable liquids	Category 3

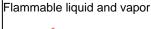
GHS Label elements, including precautionary statements

Emergency Overview

Danger

Hazard Statements

May cause an allergic skin reaction
May cause cancer









Appearance liquid

Physical state liquid

Aroma Characteristic of blueberry.

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Specific treatment (see .? on this label)

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Other information

- Harmful to aquatic life with long lasting effects
- · Harmful to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade Secret
ETHYL ALCOHOL	64-17-5	5-10%	*
Trade Secret	Proprietary	<1	*

4. FIRST AID MEASURES

First aid measures for different exposure routes

General advice If symptoms persist, call a physician.

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.

Skin contact Immediate medical attention is not required. Wash off immediately with soap and plenty of

water while removing all contaminated clothes and shoes. If skin irritation persists, call a

physician.

Inhalation Immediate medical attention is not required. If symptoms persist, call a physician. Move to

fresh air in case of accidental inhalation of vapors or decomposition products.

Ingestion Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth

to an unconscious person. Call a physician. Do NOT induce vomiting.

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

Most important symptoms/effects, acute and delayed

Main Symptoms Hives.

Indication of immediate medical attention and special treatment needed, if necessary

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use. Dry chemical. Carbon dioxide CO2. Water spray. Alcohol-resistant foam.

Unsuitable extinguishing media

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Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Keep product and empty container away from heat and sources of ignition. Risk of ignition.

Explosion data

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

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. **Personal precautions**

Remove all sources of ignition. Pay attention to flashback. Take precautionary measures

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against static discharges. Use personal protective equipment.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. **Environmental precautions**

Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in

low areas.

Methods and materials for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled Methods for cleaning up

containers. Take precautionary measures against static discharges.

7. HANDLING AND STORAGE

Precautions for safe handling

Use only in area provided with appropriate exhaust ventilation. To avoid ignition of vapors Advice on safe handling

by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from heat, sparks and open flame. No smoking. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Take necessary action to

avoid static electricity discharge (which might cause ignition of organic vapors).

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Keep **Storage Conditions**

in properly labeled containers.

None known based on information supplied. Incompatible products

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

This product, as supplied, does not contain any hazardous materials with occupational **Exposure Guidelines**

exposure limits established by the region specific regulatory bodies.

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Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
ETHYL ALCOHOL	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900	IDLH: 3300 ppm
64-17-5		mg/m³	TWA: 1000 ppm TWA: 1900
		(vacated) TWA: 1000 ppm	ma/m³

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		(vacated) TWA: 1900 mg/m ³	
ISOAMYL ALCOHOL	STEL: 125 ppm	TWA: 100 ppm TWA: 360 mg/m ³	IDLH: 500 ppm
123-51-3	TWA: 100 ppm	(vacated) TWA: 100 ppm	TWA: 100 ppm TWA: 360 mg/m ³
		(vacated) TWA: 360 mg/m ³	STEL: 125 ppm STEL: 450
		(vacated) STEL: 125 ppm	mg/m³
		(vacated) STEL: 450 mg/m ³	
ISOAMYL ACETATE	STEL: 100 ppm	TWA: 100 ppm	IDLH: 1000 ppm
123-92-2	TWA: 50 ppm	TWA: 525 mg/m ³	TWA: 100 ppm
		(vacated) TWA: 100 ppm	TWA: 525 mg/m ³
		(vacated) TWA: 525 mg/m ³	
DIMETHYL SULFIDE	TWA: 10 ppm	-	
75-18-3			
Trade Secret	TWA: 10 ppm	-	

NIOSH IDLH: Immediately Dangerous to Life or Health

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

Exposure controls

Engineering Controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Tightly fitting safety goggles.

Skin and body protection Chemical resistant apron.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection must be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

General Hygiene Considerations When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area

and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

No information available

Physical and chemical properties

Physical state liquid Appearance liquid

Aroma Characteristic of blueberry.

Color colorless

<u>Property</u> <u>Values</u> <u>Method</u>

pH No information available

Melting/freezing pointFCC MethodBoiling point/boiling rangeFCC Method

Flash Point 58 °C / 137 °F Closed cup
Evaporation rate No information available
Flammability (solid, gas) No information available
No information available

Flammability Limits in Air

Upper flammability limitNo information availablelower flammability limitNo information available

Vapor pressure mm Hg 20°C No information available

Vapor densityNo information availableSpecific Gravity @ 25C1.0100 1.0400FCC Method

Specific Gravity @ 20C1.01301.0430FCC MethodRefractive Index1.38051.4105FCC Method

Water solubility Soluble in water

Solubility in other solvents

Partition coefficient: n-octanol/water

No information available
No information available

Autoignition temperature No information available No information available

 Decomposition temperature
 No information available

 Viscosity, kinematic
 No information available

 Viscosity, dynamic
 No information available

 No information available

Viscosity, dynamicNo information availableExplosive propertiesNo information availableOxidizing PropertiesNo information available

Other information

Softening point
Molecular Weight
VOC Content(%)
Density VALUE
No information available

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to Avoid

Heat, flames and sparks.

Incompatible Materials

None known based on information supplied.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information Product does not present an acute toxicity hazard based on known 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.

Chemical Name	Oral LD50	Dermal LD50	LC50 Inhalation
PROPYLENE GLYCOL 57-55-6	20000 mg/kg (Rat)	20800 mg/kg (Rabbit)	-
ETHYL ALCOHOL 64-17-5	7060 mg/kg (Rat)	-	124.7 mg/L (Rat) 4 h

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available. **Germ Cell Mutagenicity** No information available.

Carcinogenicity This product contains one or more substances which are classified by IARC as

carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly

carcinogenic to humans (Group 2B).

Chemical Name	ACGIH	IARC	NTP	OSHA
ETHYL ALCOHOL	A3	Group 1	Known	X
64-17-5		·		

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity
Specific target organ systemic
toxicity (single exposure)
Specific target organ systemic

No information available. No information available.

toxicity (repeated exposure)

No information available.

Chronic toxicity

Target Organ Effects

May cause adverse liver effects. Contains a known or suspected reproductive toxin. Blood, Central nervous system, Eyes, Liver, Reproductive system, Respiratory system,

Skin.

Aspiration hazard No information available.

Numerical measures of toxicity - Product Information

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

. mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life with long lasting effects

40.23435% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Chemical Name	log Pow
ETHYL ALCOHOL 64-17-5	-0.32
Trade Secret	3.1

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment

Waste Disposal Methods It must undergo special treatment, e.g. at suitable disposal site, to comply with local

regulations.

Contaminated packaging Do not reuse container.

US EPA Waste Number D001

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status	
ETHYL ALCOHOL	Toxic Ignitable	
64-17-5		

14. TRANSPORT INFORMATION

DOT/ADR Not regulated.

ICAO/IATA Not regulated
IMDG / IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
DSL/NDSL Complies
EINECS/ELINCS Complies

ENCS -

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IECSC Complies

KECL -

PICCS Complies 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

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard no
Fire Hazard Yes
Sudden Release of Pressure Hazard no
Reactive Hazard no

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	California Prop. 65
ETHYL ALCOHOL - 64-17-5	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
PROPYLENE GLYCOL	X		X
57-55-6			
ETHYL ALCOHOL	X	X	X
64-17-5			
Trade Secret			Χ
Trade Secret	X	X	X

U.S. EPA Label information

16. OTHER INFORMATION

829TTB Wild Blueberry Type, Natural Flavor Blend

NFPA Health Hazard 2 Flammability 2 Instability 0 Physical and chemical hazards *

HMIS Health Hazard 2 Flammability 2 Physical Hazard 0 Personal protection B

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Revision Note No information available

Revision# 1

Disclaimer

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

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