SAFETY DATA SHEET.



Version 1

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

1.1. Product identifier

Number 662TTB

Manufacturer Apex Flavors, Inc.

1371 Brass Mill Rd.

Suite A

Belcamp, MD 21017 (410) 565-6600

Product name PURE ALMOND EXTRACT, NATURAL

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 4
Acute dermal toxicity	Category 4
Acute inhalation toxicity - Vapor	Category 4
Serious eye damage/eye irritation	Category 2
Carcinogenicity	Category 1A
Specific target organ toxicity (single exposure)	Category 3
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1
Flammable liquids	Category 3

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

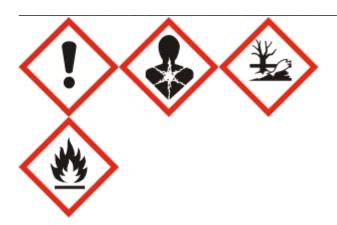
Symbol(s)

Xn - Harmful

R-code(s)

Xn;R22

2.2. Label elements



Signal Word

Danger

Hazard Statements

H319 - Causes serious eye irritation

H350 - May cause cancer

H410 - Very toxic to aquatic life with long lasting effects

May cause respiratory irritation. May cause drowsiness or dizziness

H226 - Flammable liquid and vapor

Precautionary Statements

P322 - Specific measures (see .? on this label)

P201 - Obtain special instructions before use

P281 - Use personal protective equipment as required

P308 + P313 - IF exposed or concerned: Get medical advice/ attention

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

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
BENZALDEHYDE	Present	100-52-7		30-50%	Xn; R22	Acute Tox. 4 (H302) Aquatic Acute 2 (H401) (EFFA) Eye Irrit. 1 (H319) (EFFA) Skin Irrit. 3 (316) (EFFA) Acute Tox. 4 (H302) (EFFA) Flam. Liq. 4 (H227)(EFFA) Acute Tox. 4 (H332)(EFFA) Aquatic Acute 2 (H401) Eye Irrit. 1 (H319) Skin Irrit. 3 (H316) Acute Tox. 4 (H302) Acute Tox. 4 (H332)	No data available
ETHYL ALCOHOL	200-578-6	64-17-5		1-5%	F; R11	Flam. Liq. 2 (H225) Flam. Liq. 2 (H225)	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

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

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 Consult a physician if necessary. Wash off immediately with soap and plenty of water while

removing all contaminated clothes and shoes.

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

vomiting.

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.

Self-protection of the first aiderUse personal protective equipment

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

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

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

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.

7.2. Conditions for safe storage, including any incompatibilities

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

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
ſ	ETHYL ALCOHOL		STEL: 3000 ppm	VME: 1000 ppm VME:	VLA-ED: 1000 ppm	MAK: 500 ppm MAK:
	64-17-5		STEL: 5760 mg/m ³	1900 mg/m ³	VLA-ED: 1910 mg/m ³	960 mg/m ³
			TWA: 1000 ppm TWA:	VLCT: 5000 ppm		Ceiling / Peak: 1000
			1920 mg/m ³	VLCT: 9500 mg/m ³		ppm Ceiling / Peak:
						1920 mg/m ³
						Skin
						TWA: 500 ppm TWA:
						960 mg/m ³

Chemical Name	Italy	Portugal	The Netherlands	Finland	Denmark
BENZALDEHYDE				TWA: 1 ppm	
100-52-7				TWA: 4.4 mg/m ³	
				STEL: 4 ppm	
				STEL: 17.4 mg/m ³	
				Ceiling: 4 ppm	
				Ceiling: 17.4 mg/m ³	
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/m ³
			TWA: 260 mg/m ³	STEL: 1300 ppm	Ţ
				STEL: 2500 mg/m ³	

Chemical Name	Austria	Sweden - Occupational Exposure Limits - TLVs (LLVs)	Switzerland	Poland	Norway
BENZALDEHYDE				STEL: 40 mg/m ³	
100-52-7				TWA: 10 mg/m ³	
ETHYL ALCOHOL	STEL 2000 ppm STEL	500 ppm NGV 1000	STEL: 1000 ppm	NDS: 1900 mg/m ³	TWA: 500 ppm TWA:
64-17-5	3800 mg/m ³	mg/m³ NGV	STEL: 1920 mg/m ³		950 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
Component				Ireland	
ETHYL ALCOHOL		TWA: 1000 ppm TWA: 1900 mg/m ³		0 mg/m ³	
	64-17-5 (1-5%)				

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 Tightly fitting safety goggles

Hand Protection Protective gloves
Skin and body protection Protective gloves
Long sleeved clothing

Respiratory protection 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 Do not allow material to contaminate ground water system

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical stateliquidAppearanceclearOdortypical of almondColorcolorless

Property Values Method

pH No information available

Melting/freezing pointNo information availableBoiling point/boiling rangeFCC Method

Flash Point 29 °C / 85 °F Closed cup Evaporation rate FCC Method

Flammability (solid, gas)

Flammability Limits in Air

No information available
No information available

Upper flammability limit
lower flammability limit

Vapor pressure mm Hg 20°C

Vapor density

No information available
No information available

Vapor density

Relative density

No information available

No information available

No information available

Specific Gravity @ 25C0.9400 - 0.9700FCC MethodSpecific Gravity @ 20C0.943 - 0.973FCC MethodRefractive Index1.3439 - 1.3739FCC Method

Refractive Index 1.3439 - 1.3739 FCC Method No information available

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

Viscosity, dynamic No information available

Explosive properties No information available Oxidizing Properties No information available

9.2. Other information

VOC Content(%) 34.5

Molecular Weight 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

There is no data available for this product **Eve contact**

Skin contact There is no data available for this product

Ingestion There is no data available for this product

65.5% of the mixture consists of ingredient(s) of unknown toxicity **Acute toxicity**

The following values are calculated based on chapter 3.1 of the GHS document (Rev. 1, 2005):

1,365.00 mg/kg Oral **Dermal** 1,337.00 mg/kg

Inhalation

1,014,981.11 mg/l Mist Vapor 11.77 mg/l

Skin corrosion/irritation No information available Eye damage/irritation No information available No information available Sensitization **Germ Cell Mutagenicity** No information available

Carcinogenicity 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 system Eyes Liver Reproductive system Respiratory system Skin

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
BENZALDEHYDE		10.6 - 11.8: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 12.69: 96 h Oncorhynchus mykiss mg/L LC50 static 0.8 - 1.44: 96 h Lepomis macrochirus mg/L LC50 flow-through 6.8 - 8.53: 96 h Pimephales promelas mg/L LC50 flow-through 7.5: 96 h Lepomis	50: 24 h Daphnia magna mg/L EC50

	macrochirus mg/L LC50 static	
ETHYL ALCOHOL	12.0 - 16.0: 96 h Oncorhynchus	9268 - 14221: 48 h Daphnia magna
	mykiss mL/L LC50 static 100: 96 h	mg/L LC50 10800: 24 h Daphnia
	Pimephales promelas mg/L LC50	magna mg/L EC50 2: 48 h Daphnia
	static 13400 - 15100: 96 h	magna mg/L EC50 Static
	Pimephales promelas mg/L LC50	
	flow-through	

12.2. Persistence and degradability

No information available

12.3. Bioaccumulative potential

No information available

Che	mical Name	log Pow
BENZ	ZALDEHYDE	1.48
ETH	L ALCOHOL	-0.32

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

Other Information 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

14. TRANSPORT INFORMATION

DOT

UN/ID No 1197

Proper shipping name EXTRACTS, FLAVOURING, LIQUID

Hazard class 3
Packing Group III
ERG Code 127

IMDG / IMO

Proper shipping name EXTRACTS, FLAVOURING, LIQUID

Hazard class 3 UN/ID No 1197 Packing Group III

ICAO/IATA

UN/ID No 1197

Proper shipping name EXTRACTS, FLAVOURING, LIQUID

Hazard class 3
Packing Group III
ERG Code 127

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		
BENZALDEHYDE	Hazard Class 2		
100-52-7			
ETHYL ALCOHOL	Hazard Class 1		
64-17-5			

International Inventories

All of the components in the product are on the following Inventory lists: United States of America (TSCA), Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Australia (AICS), Korea (ECL), China (IECSC), Japan (ENCS), Philippines (PICCS).

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

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

AICS - 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

H302 - Harmful if swallowed H401 - Toxic to aquatic life H319 - Causes serious eye irritation H227 - Combustible liquid H332 - Harmful if inhaled H316 - Causes mild skin irritation H225 - Highly flammable liquid and vapor

Revision Date 31-Aug-2016

Revision Note Not applicable.

Revision#

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.

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