



Safety Data Sheet (SDS) OSHA HCS (29 CFR § 1910.1200)

1

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Date of Review: 06/03/2024

Trade name: Brazilian Cachaca Barrel (Amburana Wood)
Technical Name: Natural Cachaca Amburana Barrel Extract
Product Code: CBM1M

1 Identification

Product Identifier: Amburana Wood Extract in Ethanol

Trade name: Brazilian Cachaca Barrel (Amburana Wood)

Product Number CBM1M

CAS Numbers:

Ethanol 64-17-5

Amburana cearensis

ECHA numbers:

200-578-6

Product Purpose

Flavoring Ingredient. Product is intended as a flavoring agent for beverage and food applications.

Not intended for undiluted direct consumption.

Manufacturer/Supplier:

Aroma Sciences LLC
3772 Puritan Way Suite B-8,
Erie CO 80516
Tel 720 263 6960
info@aromasciences.com

Emergency telephone number:

Infotrac : 1-800-535-5053 I(n North America), & 1-353 352-3500 (Collect International)

Email: responders@infotrac.net

2 Hazard(s) Identification

Classification of the substance or mixture:

Flammable liquid - Category 2

Aspiration hazard - Category 1

Specific Target Organ Toxicity (Repeated Exposure) - Category 2

Specific Target Organ Toxicity (Single Exposure) - Category 3

Skin Irritation - Category 2

Eye Irritation - Category 2B



Flammable liquid and vapor



Serious Eye Irritant



Harmful if Swallowed



Chronic Exposure Health Hazard



Date of Printing: 6/4/24 10:44 AM

Date of Review: 06/03/2024

Trade name: Brazilian Cachaca Barrel (Amburana Wood)**Hazard Pictograms**

GHS02

GHS07

GHS08

Signal Word: Warning**Hazard Statements**

H226 Flammable liquid and vapor

H302 Harmful if swallowed

H319 Causes serious eye irritation

Precautionary Statements

P210	Keep away from heat/sparks/open flame/hot surfaces – No smoking
P233	Keep container tightly closed
P241	Use explosion-proof electrical/ventilating/lighting/equipment
P264	Wash thoroughly after handling
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P337+P313	If eye irritation persists: Get medical advice/attention
P403+P235	Store in a well-ventilated place. Keep cool.
P370+P378	In case of fire: Use for extinction CO ₂ powder or water spray
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification Systems**NFPA Ratings (scale 0-4)****HMIS Ratings (scale 0-4)**

HEALTH	2
FIRE	3
REACTIVITY	0

Other hazards**Results of PBT and vPvB assessment**

PBT: Not applicable.

3 Composition/Information on Ingredients**Chemical Characterization:** Mixture**Description:** Mixture of substances listed below with entrained water**Hazardous components:**

CAS No. 64-17-5

Ethanol

Amburana Cearensis Extract**Additional Information:**

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of para.(i) of §1910. 1200 of CFR 1910.1200 Trade Secrets



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4 First Aid Measures

Description of First Aid measures

General Information: Promptly remove contaminated clothing, if symptoms persist seek medical advice

After inhalation: Supply fresh air, in case of loss of consciousness, place patient in recovery position and seek medical advice. If victim is not breathing call emergency services, then give artificial respiration by mouth to mouth. Contact a poison control center or doctor for treatment advice.

After skin contact: Immediately wash skin with soap and plenty of water. Remove contaminated clothing and laundry before reuse. Get medical attention should symptoms persist.

After eye contact: Rinse open eye for at least 15 minutes. If contact lenses are present remove if possible. If eye irritation persists, seek advice from a doctor.

After swallowing: Do not induce vomiting without medical advice. Contact poison control for advice.

Information for Doctor

Most important symptoms and effects: Ingestion and Inhalation of high vapor concentrations may cause symptoms of intoxication like headache, dizziness, tiredness, nausea and vomiting. Treat for symptoms of alcohol poisoning. This product contains naturally occurring coumarin which is hepatotoxic

Indication of any immediate medical attention and special treatment needed

No further relevant information available

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing agents

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam

Unsuitable extinguishing agents

For this substance/mixture no limitations extinguishing agents are given

Special hazards arising from the substance or mixture:

Vapors are heavier than air and may spread along floors. Development of hazardous combustion gases or vapors possible. May form an explosive mixture with air at ambient temperatures

Advice for firefighters

Wear NIOSH approved or equivalent self-contained breathing apparatus. Pay attention to flash back. Cool endangered receptacles with water spray.

6 Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures

Wear protective equipment, especially eye and skin protection Do not breath vapors or mists. Ensure adequate ventilation. Take steps to avoid sources of heat or ignition. No smoking. Keep unprotected persons away evacuate danger area

Environmental Precautions

Prevent undiluted seepage into sewer systems. Dilute with copious quantities of water

Method and material for containment and clean up

Ensure adequate ventilation. Absorb with liquid-binding material (sand diatomite, acid binders universal binders, sawdust). Dispose of contaminated material in accordance with local regulations.



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Date of Review: 06/03/2024

Trade name: Brazilian Cachaca Barrel (Amburana Wood)**References to other sections**

See section 7 for information on safe handling

See section 8 for information on personal protective equipment

See section 13 for disposal information

Protective Action Criteria for Chemicals

PAC-1	64-17-5 Ethanol	1,800 ppm
PAC-2	64-17-5 Ethanol	3 300 ppm
PAC-3	64-17-5 Ethanol	15,000 ppm

7 Handling and Storage**Handling****Precautions for safe handling**

Ensure good ventilation in the workplace and prevent the formation of aerosols

Information about protection against explosions and fires

Keep ignition sources away- Do not smoke

Protect against electrostatic discharges

Conditions for safe storage including any incompatibles

Store in a cool dry well-ventilated place in tightly closed containers. Keep away from heat sparks and flame. Protect from heat and direct sunlight

Incompatible materials: Strong oxidizing agents, acids, acid anhydrides, acid chlorides, peroxides, organic peroxides, alkali metals

Specific end use(s): No further relevant information available.

8 Exposure Controls/ Personal Protection**Information about design of technical systems:** No further data, see section 7**Control Parameters****Components with occupational exposure limits:**

64-17-5 Ethanol

PEL Long-term value: 1,900 mg/m³, 1,000 ppmREL Long-term value 1,900 mg/m³, 1,000 ppmTLV Short-term value 1,880 mg/m³, 1,000 ppm**Additional Information:** The lists were valid during the creation of this SDS.**Exposure Controls****Engineering Measures:** Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting equipment. Ensure that eyewash and safety showers are close to the workstation.**General protective and hygienic measures**

Keep bulk quantities away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing and laundry before reuse. Wash hands before breaks and at the end of work. Avoid contact with eyes and skin.



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Trade name: Brazilian Cachaca Barrel (Amburana Wood)**Personal Protective Equipment****Breathing equipment:** Not required**Protection of hands:**

Protective Gloves

Material of gloves

The glove material must be impermeable and resistant to the product. No recommendation can be made to a specific manufacturer however selection of glove material should be based on consideration on penetration times, rates of diffusion and degradation.

Penetration time of glove material

The exact breakthrough time has to be determined by the manufacturer of the protective glove.

Eye Protection

Tightly sealed goggles / protective eyeglasses

Selection of Eye Protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Body Protection

Protective work clothing

Limitation and supervision of exposure into the environment: None**9 Physical and chemical properties****General Information**

Physical state:	Liquid
Color:	Colorless to pale yellow clear liquid
Odor:	Alcohol-like with cinnamon vanilla like aroma
Odor Threshold	Not determined
pH:	6-7
Melting point:	$\leq -90^{\circ}\text{C}$, $\leq -130^{\circ}\text{F}$
Boiling point:	$\geq 78^{\circ}\text{C}$, $\geq 172^{\circ}\text{F}$
Flash point:	12.8°C , 55°F
Flammability (solid, gaseous)	Not applicable
Ignition temperature	$\geq 425^{\circ}\text{C}$, $\geq 797^{\circ}\text{F}$
Decomposition temperature	Not determined
Auto igniting	Product is not self-igniting
Danger of Explosion	Product is not explosive however formation of explosive air/vapor mixtures is possible



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Trade name: Brazilian Cachaca Barrel (Amburana Wood)**Explosive Limits**

Lower:	≥3.5 Vol %
Upper:	≤ 15 Vol %
Vapor pressure @ 20°C (68°F)	≤ 59hPa (≤44.3mm Hg)
Density	≈0.85g/cm ³ (7.09 lbs./gal)
Relative density	Not determined
Vapor density	Not determined
Evaporation rate	Not determined
Miscibility with water	Fully miscible
Partition coefficient (n-octanol/water)	Not determined
Viscosity	
Dynamic:	Not determined
Kinematic:	Not determined
Solvent Content	
Organic Solvents	80%
VOC Content	80%
	630 g/l (5.25lbs./ gal)

10 Stability and Reactivity

Reactivity	No further relevant information available
Chemical Stability	Stable under normal conditions
Thermal Decomposition	No decomposition is used according to specifications
Possibility of hazardous reactions	No dangerous reactions known
Conditions to avoid	Heat flame and other ignition sources, avoid heat and direct sunlight
Incompatible materials	Strong oxidizing agents, acids, alkali metals, ammonia, hydrazine, peroxides, acid anhydrides, calcium hypochlorite, chromyl chloride, nitrosyl perchlorate, bromine pentafluoride, perchloric acid, silver nitrate, mercuric nitrate, potassium-tert-butoxide, magnesium perchlorate, acid chlorides, platinum, uranium hexafluoride, silver oxide, iodine heptafluoride, acetyl bromide, disulfuryl difluoride, tetrachlorosilane + water, acetyl chloride, permanganic acid, ruthenium (VIII) oxide, uranyl perchlorate, potassium dioxide.
Hazardous decomposition Products	Carbon oxides

11 Toxicological Information**Acute toxicity****LD/LC 50 values that are relevant for this classification**

64-17-5 Ethanol



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Oral	LD50	7,050 mg/kg (Rat) Remarks Lungs, Thorax or Respiration: Other changes Carcinogenicity – Mouse – Oral Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Liver Tumors Blood: Lymphomas including Hodgkin's disease Central Nervous System: depression, narcosis, damage to the heart. To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated. Heart - Irregularities - Based on Human Evidence Central nervous system - Breathing difficulties - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence
Inhalative	LC50 4 hr LC50 96 hr	20,000 mg/l (Rat) 12,900-15,300 mg/l (Trout)

Primary Irritant Effect

On the skin:	No irritating effect
On the eyes:	Irritating effect
Sensitization:	No sensitizing effects known

Additional toxicological Information**Carcinogenic categories****IARC (International Agency for Research on Cancer)**

The IARC concluded that ethanol found in alcoholic beverages to be Group 1 – Carcinogenic to humans
All other instances it is not considered carcinogenic.

NTP (National Toxicology Program)

Ethanol is listed a Known Carcinogen

ACGIH (American Conference of Governmental Industrial Hygienists)

Ethanol is listed as A3 Animal Carcinogen

OSHA

Not Listed

12 Ecological Information**Toxicity****Aquatic Toxicity**

64-17-5 Ethanol EC50 34,900 mg/l (Daphnia)

Persistence and degradability: No further relevant information available

Behavior in environmental systems

Bioaccumulation potential: No further relevant information available

Mobility in soil: No further relevant information available

General Notes: Do not allow undiluted product to reach ground water, water course or sewage system

Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

Other adverse effects: No further relevant information available



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13 Disposal Considerations

Waste treatment methods**Recommendation:**

Must not be disposed of together with household waste. Do not allow undiluted product to reach sewage system.

Uncleaned packaging

Recommendation: Disposal must be made according to official regulations

Recommended cleansing agent: Water, if necessary, with mild cleansing agents such as dish soap

14 Transport Information

UN – Number

DOT IMDG IATA UN1170

UN Proper shipping name

DOT Ethanol solutions

ADR/ADN UN1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

IMDG ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

IATA ETHANOL SOLUTION

Transport hazard class(es)**DOT**

Class: 3 Flammable liquids

Label: 3

ADR/AND

Class: 3 (F1) Flammable liquids

Label: 3

IMDG IATA

Class: 3 Flammable liquids

Label: 3

Packaging Group:

DOT, ADR/AND, IMDG, IATA III

Environmental hazards Not applicable

Special precautions for user Warning Flammable liquid

Hazard identification number (Kenier code) 30



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Trade name: Brazilian Cachaca Barrel (Amburana Wood)**EMS Number** F-E, S-D**Stowage Category** A**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:** Not applicable**Transport Additional Information****DOT****Quantity limitations:** On passenger aircraft/rail 60 L
On cargo aircraft only 220 L**ADR/ADN****Excepted quantities (EQ):** Code E1
Maximum net quantity per inner packaging 30 ml
Maximum net quantity per outer packaging 1,000 ml**IMDG****Limited quantities (LQ)** 5L**Excepted quantities (EQ)** Code E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging 1,000 ml**UN "Model Regulation"** UN1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
3, III

15 Regulatory Information

Safety, health and environmental regulations/legislations for the substance or mixture**SARA (Superfund Amendments and Reauthorization):****Section 355 (extremely hazardous substances)**

None of the ingredients are listed

Section 313 (Specific toxic chemical listings)

None of the ingredients are listed

TSCA (Toxic Substances Control Act)

Ethanol component is listed as ACTIVE

Hazardous Air Pollutants

None of the ingredients are listed

California Proposition 65**Chemicals known to cause cancer**

Alcohol in alcoholic beverages

Chemicals known to cause reproductive toxicity for females

None of the ingredients are listed

Chemicals known to cause reproductive toxicity for males

None of the ingredients are listed

Chemicals known to cause developmental toxicity

Ethyl alcohol in alcoholic beverages

New Jersey Right-to-know List

64-17-5 Ethanol



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Trade name: Brazilian Cachaca Barrel (Amburana Wood)**New Jersey Special Hazardous Substance List**

64-17-5 Ethanol

Pennsylvania Right-to-know List

64-17-5 Ethanol

Pennsylvania Hazardous Substances List

None of the ingredients are listed

Carcinogenic categories:**EPA (Environmental Protection Agency)**

None of the ingredients are listed

TLV (Threshold Limit Values estimated by ACGIH)

64-17-5 Ethanol

A3

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed

GHS Label elements

The product is classified and labelled according to the Globally Harmonized System (GHS)

Hazard Picograms

GHS02



GHS07

Signal Word: Warning

H226 Flammable liquid and vapor

H302 Harmful if swallowed

H319 Causes serious eye irritation

Precautionary Statements

P210	Keep away from heat/sparks/open flame/hot surfaces – No smoking
P233	Keep container tightly closed
P240	Ground/bond container and receiving equipment
P241	Use explosion-proof electrical/ventilating/lighting/equipment
P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge
P264	Wash thoroughly after handling
P280	Wear protective gloves
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention
P403+P235	Store in a well-ventilated place. Keep cool.
P370+P378	In case of fire: Use for extinction CO ₂ powder or water spray
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

National Regulations

None of the ingredients are listed

Chemical Safety Assessment: A Chemical Safety Assessment has not been carried out



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Trade name: Brazilian Cachaca Barrel (Amburana Wood)**16 Other Information**

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety and Health OSHA: Occupational Safety & Health Administration

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

Flam. Liq. 2: Flammable liquids – Category 2 Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3