

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product Name: -The Cocktail Experiment Orange Bitters 5oz

Other Names: -Bitters

Manufacturer: -The Cocktail Experiment LLC

Manufacturer Address: -5800 One Perkins Place

Baton Rouge, Louisiana 70808 USA

Emergency Telephone: (800)222-1222

Recommended Usage: -The Cocktail Experiment Orange Bitters are a

concentrated food and beverage flavoring that are used in small amounts or dashes to flavor food dishes and drink

mixes.

Usage Restrictions: -The Cocktail Experiment Blood Orange & Ginger

Bitters have never been consumed or used as a beverage,

as they are unpalatable tasted in isolation

SECTION 2: HAZARD(S) IDENTIFICATION

Chemical Hazard Classification: -3 – Flammable Liquid

Signal Word: -Warning

Hazard Statement: - Appearance: orange liquid. Flammable liquid and

vapor. May cause central nervous system depression. Causes severe eye irritation. Causes respiratory tract irritation. Causes moderate skin irritation. This substance has caused adverse reproductive and fetal effects in humans. Warning! May cause liver, kidney and heart damage. Target Organs: Kidneys, heart,

central nervous system, liver.









Precautionary Statement: -Read label before use. Keep out of reach of children

Description of Other Hazards: -None known

SECTION 3: COMPOSITIONS / INFORMATION ON INGREDIENTS

Substance/Mixture: -Mixture
Chemical Name: -Orange Bitters

Common Name And Synonym: -Bitters

Formulation:

-A blend of infused ethyl alcohol and water
-Main Ingredient – Ethyl Alcohol – (64-17-5)

CAS#	Chemical Name	Percent
64-17-5	Ethyl Alcohol	58%
7732-18-5	Water	42%

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SECTION 4: FIRST AID MEASURES

General: -Check the vital functions. Unconcious: maintain adequate

airway and respiration. Pespiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain.

Depending on the victim's condition: doctor/hospital. Never

give alcohol to drink.

Eye Contact: 1. Flush eyes well with large quantities of water for at least 15

minutes

2. Seek medical attention if required

-Do not apply neutralizing agents. Take victim to an

ophthalmologist if irriation persists.

Inhalation: 1. If overcome by exposure, remove victim to fresh air

immediately.

2. Seek medical attention if required

Skin: 1. Wash skin thoroughly with mild soap/water

2. Seek medical attention if ill effect or irritation develops

Ingestion: 1. Use product as directed on label.

2. For large amounts, seek medical attention.

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SECTION 5: MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Symptoms injuries after inhalation:

- Exposure to high concentrations: Dry/sore throat. Coughing. Irritation of the respiratory tract. Irritation of the nasal mucous membranes. Respiratory difficulties. Central nervous system depression. Symptoms similar to those listed under ingestion.

Symptoms/injuries after skin contact: Symptoms/injuries after eye contact:

- Slight irritation

Symptoms/injuries after ingestion:

- Redness of the eye tissue. Lacrimation. On Continuous Exposure/Contact: Irritation of the eye tissue. - After Absorption of High Quantities: Risk of aspiration

pneumonia. Red skin. Body temperature rise. Damp/clammy skin. Excited/restless. Accelerated heart action. Central nervous system depression. Dizziness. Narcosis. Headache. Drunkenness. Nausea. Vomiting. Disturbed motor response. Coordination disorders. Visual disturbances. Impaired concentration. Delusions. Disturbed sensation of pain. Disturbances of heart rate. Disturbances of consciousness. Tremor. Cramps/uncontrolled muscular contractions. Dilated pupils.

Chronic symptoms:

- On Continuous/Repeated Exposure/contact: Dry skin. Gastrointestinal complaints. Enlargement/affection of the liver. Change in the haemogramme/blood composition. Cardiac and blood circulation effects. High arterial pressure. Impairment of the nervous system. Behavioural disturbances. Mental confusion. Disturbed tactile sensibility. Tremor. Affection of the bone marrow. Affection of the endocrine system. Weakening of the immune system.

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SECTION 6: FIRE-FIGHTING MEASURES

Suitable Extinguishing Equipment:

Unsuitable Extinguishing Equipment: Activity:

Hazardous Combustion Byproduct:

Protection during fire-fighting:

Special Fire-Fighting Procedures:

- Carbon dioxide, "alcohol-type foam" dry chemical, water in deluge quantities, BC powder
- Solid water jet ineffective as extinguishing medium. Upon combustion: CO and CO2 are formed. Reacts violently with many compounds e.g.: with (strong) oxidizers: (increased) risk of fire/explosion. Violent to explosive reaction with (some) acids.
- -Heat/fire exposure: compressed air/oxygen apparatus.
- -Vapors from this product may travel or move by air currents to an ignition source and flash back
- 1. Keep upwind
- 2. Shut down all possible sources of ignition
- 3. Water may be ineffective but use to keep fireexposed containers cool
- 4. Keep run-off water out of sewers and water sources
- 5. Dike for water control
- 6. Use spray or fog nozzles
- 7. Cool containers exposed to flames with water from the side until well after the fire is out
- 8. Move container from fire area if it can be done without risk
- 9. If risk of water pollution occurs, notify appropriate authorities

Unusual Fire and Explosion Hazards:

Vapors from this product may travel or move by air currents to an ignition source and flash back.

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SECTION 7: ACCIDENTAL RELEASE MEASURES

Spill and Cleanup procedures:

- 1. Shut off all ignition sources. Put on appropriate personal protective equipment as required. Cordon off spill area/ stop leak if you can do it without risk. Do not touch or walk through spilled material.
- 2. Provide adequate ventilation. Avoid breathing vapor.
- 1. Move containers from spill area
- 2. Use spark-proof tools and explosion-proof equipment
- 3. Approach release from upwind
- 4. Prevent entry into sewers, water courses, basements, confined areas
- 5. See Section 1 for emergency contact information and Section 13 for waste disposal.

SECTION 8: HANDLING & STORAGE

Precautions for safe handling - Protective measures:

Precautions for safe handling -Advice on general occupational hygiene:

Precautions for safe handling -Conditions for safe storage including any incompatibilities: -Avoid breathing vapor

- -Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.
- 1. Store in accordance with local regulations
- 2. Eliminate all ignition sources.
- 3. Separate from oxidizing materials.
- 4. Keep tightly closed and sealed until ready for use.
- 5. Do not store in unlabeled containers.
- 6. Use appropriate containment to avoid environmental contamination.
- 7. Store at room temperature out of direct sunlight.
- 8. Incompatible with strong bases and strong acids
- 9. Suitable packaging materials: stainless steel, aluminum, iron, copper, nickel, synthetic material, glass.

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SECTION 9: EXPOSURE CONTROLS / PERSONAL PROTECTION

Osha Permissible Exposure Limit: -1000 ppm TWA (ethanol)

-1900 mg/m3 TWA

ACGIH Threshold Limit Value: -1000 ppm

NIOSH: -1000 ppm TWA (ethanol)

-1900 mg/m3

-TWA 3300 ppm IDLH

Environmental exposure controls

(for large spills):

1. Prevent dispersion of material. Avoid discharge into drains, water courses or into the ground.

2. Inform authorities if large amounts are involved.

Do not flush into sewer.

Personal precautions: 1. Avoid breathing vapors.

2. Ventilate area. Shut off all sources of ignition.

3. Wear suitable protective clothing AS

REQUIRED.

SECTION 10: PHYSICAL & CHEMICAL PROPERTIES

Appearance – Physical State: - Liquid **Appearance – Color:** - Orange

Melting/freezing point:- Not AvailableCritical Temperature:- Not AvailableOdor:- Orange, GingerOdor Threshold:- Not Available

pH: - Not Available Flash point: - 84.2°F or 29.0°C **Burning Time:** - Not Applicable **Burning Rate:** - Not Applicable **Evaporation Rate:** - Not Available Flammability (solid, gas): - Not Available Lower explosive limits (LEL): -3.3%, 67 g/m³ **Upper explosive limits (UEL):** -19%, 290 g/m³

Vapor pressure and density:

Specific Volume (ft³/lb):

Gas Density (lb/ft³):

Relative Density:

Solubility:

- Not Available
- Not Available
- Not Available
- Not Available

Solubility in water: - Yes

Partition co-efficient: n- - Not Available

octanol/water:

Auto-ignition temperature:- Not AvailableDecomposition temperature:- Not AvailableSADT:- Not AvailableViscosity:- Not Available

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SECTION 11: STABILITY AND REACTIVITY

Reactivity: - No specific test data related to reactivity available

for this product

Chemical Stability: - The product is stable

Possibility of hazardous reactions: - Under normal conditions of storage and use,

hazardous reactions will occur

Conditions to avoid: - Avoid all possible sources of ignition (spark or

flame)

Incompatibility with various

substances:

Hazardous decomposition products:

- Highly reactive or incompatible with the following materials: oxidizing materials

- Under normal conditions of storage and use, hazardous decomposition should not be produced

Hazardous polymerization:- Under normal conditions of storage and use, hazardous polymerization will not occur.

SECTION 12: TOXICOLOGICAL INFORMATION

Acute toxicity: - Ethanol (64-17-5): LD50 oral rat 10740 mg/kg (Rat;

Experimental value, Rat; Experimental value) LD50 dermal rabbit > 16000 mg/kg (Rabbit) Water (7732-18-

5) LD50 oral rat \geq 90000 mg/kg

Irritation/Corrosion: - Causes skin irritation

Sensitization: - Not available

Mutagenicity: - Not classified. Based on available data, the

classification criteria are not met.

Carcinogenicity: - Not classified

Specific target organ toxicity - May cau

ci l

(single exposure):

- May cause drowsiness or dizziness. Causes damage to organs (central nervous system, optic nerve)(oral,

dermal

Specific target organ toxicity

(repeated exposure):

Potential acute health effects -

eye contact:

Potential acute health effects -

inhalation:

- Not classified. Based on available data, the

classification criteria are not met

- Redness of the eye tissue. Lacrimation. On continuous

exposure/contact: Irritation of the eye tissue

- Exposure to high concentrations: Dry/sore throat, coughing, irritation of the respiratory tract, irritation of

the nasal mucous membranes, respiratory difficulties, central nervous system depression, symptoms similar to

those listed under ingestion

Potential acute health effects -

skin contact:

- Slight irritation

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Potential acute health effects – ingestion:
Potential chronic health effects – General:

- After absorption of high quantities: Risk of aspiration pneumonia, red skin, body temperature rise, damp/clammy skin, excited/restless, accelerated heart action, central nervous system depression, dizziness, narcosis, headache, drunkenness, nausea, vomiting, disturbed motor response, coordination disorders, visual disturbances, impaired concentration, delusions, disturbed sensation of pain, disturbances of heart rate, disturbances of consciousness, tremor, cramps/uncontrolled muscular contractions, dilated pupils
- On continuous/repeated exposure/contact: Dry skin, gastrointestinal complaints, enlargement/affection of the liver, change in the haemogramme/blood composition, cardiac and blood circulation effects, high arterial pressure impairment of the nervous system, behavioural disturbances, mental confusion, disturbed tactile sensibility, tremor, affection of the bone marrow, affection of the endocrine system, weakening of the immune system.

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SECTION 13: ECOLOGICAL INFORMATION

Toxicity: - Ethanol (64-17-5):

LC50 fishes 1 14200 mg/l (96 h; Pimephales promelas;

Nominal concentration)

EC50 Daphnia 1 9300 mg/l (48 h; Daphnia magna) LC50 fish 2 13000 mg/l 96 h; Salmo gairdneri

(Oncorhynchus mykiss)

EC50 Daphnia 2 10800 mg/l (24 h; Daphnia magna) Threshold limit other aquatic organisms 1 65 mg/l (72 h; Protozoa) Threshold limit algae 1 1450 mg/l (192 h;

Microcystis aeruginosa; Growth rate)

Threshold limit algae 2 5000 mg/l (168 h; Scenedesmus

quadricauda; Growth rate)

Water: Not harmful to fishes (LC50(96h) >1000 mg/l). Not harmful to invertebrates (Daphnia). Slightly harmful to algae (EC50 (72h): 100 - 1000 mg/l). Not harmful to bacteria (EC50 > 1000 mg/l). Inhibition of activated

Persistence and degradability: - Readily biodegradable in water. Biodegradable in the

soil. No (test) data on mobility of the substance available.

Mobility in soil-soil/water

partition coefficient:

Bio accumulative potential –

Product/ingredient name:

Bio accumulative potential –

LogPow:

- -0.31 (Experimental Value)

Bio accumulative potential: - Low potential for bioaccumulation (Log Kow < 4)

- 0.022 N/m (20°C)

- Ethanol (64-17-5)

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SECTION 14: DISPOSAL CONSIDERATIONS

Disposal Methods:

- 1. The generation of waste should be avoided or minimized where possible.
- 2. Disposal of this product, solutions and any byproducts should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
- 3. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor
- 4. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
- 5. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers.
- 6. Waste packaging should be recycled. Landfill should only be considered when recycling is not feasible.
- 7. This material and its container must be disposed of in a safe way.
- 8. Empty containers may retain some product residues.
- 9. Vapor from product residues may create a flammable atmosphere inside the container.

SECTION 15: TRANSPORT INFORMATION

UN Number:

Un Proper Shipping Name: Transport Hazard Class:

Packing Group Name:

International Maritime Dangerous

Goods Code (IMDG code):

Special Precautions

- UN1169

- Aromatic Extract

- 3 – Flammable Liquid

- III

- UN1169

- Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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SECTION 16: REGULATORY INFORMATION

US Federal Regulations: - The Bureau of Alcohol, Tobacco and Firearms

(Dept. of Treasury), regulates the production, procurement and use of ethyl alcohol products.

Clean Air Act Section 112 (b)

Hazardous Air Pollutants (HAPs):

Clean Air Act Section 602 Class I

Substances:

Clean Air Act Section 602 Class II

Substances:

DEA List I Chemicals (Precursor

Chemicals):

DEA List II Chemicals (Essential

Chemicals):

- Not Listed

SECTION 17: OTHER INFORMATION

General:

- To best of our knowledge, the information contained herein is accurate. It does not represent a guarantee of the properties of the product and is furnished without warranty and acceptance of liability of any kind by The Cocktail Experiment LLC. It characterizes the product with regard to the appropriate safety precautions. Users should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and safety and health.

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