BERKELEY YEAST

SAFETY DATA SHEET

Section 1: Identification

1.1 Product identifier used on the label
Product name: Natural Thiol Boost

1.2 Other means of identification
Not available

1.3 Recommended use of the chemical and restrictions on use
Identified uses: Use in brewing to amplify guava, passion fruit, and grapefruit flavors

1.4 Supplier
Berkeley Yeast
2451 Peralta Street
Oakland CA 94607

1.5 Emergency phone number
(970)-274-1949
Contact hours: 9:00 AM - 5:00 PM MST

Section 2: Hazard(s) Identification

2.1 Classification of the substance or mixture
This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids, Category 3
Eye irritation, Category 2

2.2 GHS label elements
Pictogram :

Signal word: Warning
Hazard statement: Flammable liquid and vapor
Causes serious eye irritation

2.3 Precautionary statements
Prevention: Keep away from heat/sparks/open flames/hot surfaces
No smoking
Keep container tightly closed
Ground and bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Wear protective gloves/ eye protection/ face protection
Wash hands thoroughly after handling
Keep cool

Response: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention
In case of fire: Use dry chemical or alcohol-resistant foam to extinguish

Storage: Store in a well-ventilated place
Keep cool

Disposal: Dispose of contents / container in accordance with all local, regional, national and international regulations.

2.4 Hazards not otherwise classified
None

Section 3: Composition/Information on Ingredients

Substance/Mixture: Mixture
Other means of identification: Not available

Ingredient name	%	CAS number
Ethyl alcohol	23.9	64-17-5
Proprietary	Proprietary	-

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or to the environment and hence require reporting in this section.

Section 4: First-aid Measures

4.1 Description of first aid measures
General advice: If symptoms persist, call a physician.
Skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation persists,call a physician.
Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Inhalation: After inhalation: fresh air.
Ingestion: Clean mouth with water and drink plenty of water.

4.2 Most important symptoms and effects, acute and delayed

The most important known symptoms and effects are described in section 2.2 and/or in section 11

4.3 Indication of immediate medical attention and special treatment needed
No data available

Section 5: Fire-fighting Measures

5.1 Extinguishing media
Suitable extinguishing media: Use dry chemical or alcohol-resistant foam
Unsuitable extinguishing media: Water may be ineffective

5.2 Specific hazards arising from the substance or mixture
Flammable. Combustible. Hazardous combustion products: carbon oxides. Vapors may form explosive mixtures with air. Containers may explode when heated. Keep product and empty container away from heat and sources of ignition.

5.3 Special protective equipment and precautions for fire-fighters
Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment, and emergency procedures
Use personal protective equipment as required. Ensure adequate ventilation. Do not breathe vapors, aerosols. Keep away from heat and sources of ignition. Take precautionary measures against static discharges.

6.2 Environmental precautions
Do not flush into drains

6.3 Methods and materials for containment and cleaning up
Cover strains. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

Section 7: Handling and Storage

7.1 Precautions for safe handling
Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid ingestion and inhalation. Do not get in eyes, on skin, or on clothing. Keep away from open flames, hot surfaces, and sources of ignition. Use only non-sparking tools. Take precautionary measures against static discharges.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Store in flammables area. Incompatible materials: Strong oxidizing agents. Strong acids. Acid anhydrides. Acid chlorides.

Recommended storage temperature: 2 - 8 °C

Section 8: Exposure Controls/Personal Protection

8.1 Control parameters

Ingredient name	Exposure limits
Ethyl alcohol	**ACGIH TLV (United States, 3/2017)** STEL: 1000 ppm 15 minutes **OSHA PEL 1989 (United States, 3/1989)** TWA: 1000 ppm 8 hours TWA: 1900 mg/m^3 8 hours **OSHA PEL (United States, 6/2016)** TWA: 1000 ppm 8 hours. TWA: 1900 mg/m^3 8 hours
Proprietary	None

8.2 Exposure controls
Appropriate engineering controls: Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting equipment. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment:
Eye/face 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.

Skin and body protection: Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory protection: Follow the respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

(a)	Appearance	Form: liquid
(b)	Odor	Fruity, vegetal
(c)	Odor Threshold	No data available
(d)	pH	No data available
(e)	Melting point/Range	Not applicable
(f)	Boiling point/Range	No data available
(g)	Flash point	29 - 36 °C / 85 - 97 °F
(h)	Evaporation rate	No data available
(i)	Flammability (solid,	Not applicable

	gas)	
(j)	Upper/lower flammability or explosive limits	No data available
(k)	Vapor pressure	No data available
(l)	Vapor density	No data available
(m)	Density	0.9615 g/mL at 22 ℃ (71.6 ℉)
	Relative density	No data available
(n)	Water solubility	Soluble in water
(o)	Partition coefficient: n-octanol/water	Not applicable
(p)	Autoignition temperature	No data available
(q)	Decomposition temperature	No data available
(r)	Viscosity	No data available

Section 10: Stability and Reactivity

10.1 Reactivity
Vapors may form explosive mixture with air

10.2 Chemical stability
Stable under normal conditions.

10.3 Possibility of hazardous reactions
Risk of explosion/exothermic reaction
Risk of ignition
Violent reactions possible with strong oxidizing agents

10.4 Conditions to avoid
Heating

10.5 Incompatible materials
Strong oxidizing agents. Strong acids. Acid anhydrides. Acid chlorides.

10.6 Hazardous decomposition products
Carbon oxides

Section 11: Toxicological Information

11.1 Information on toxicological effects
Acute toxicity (oral): This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): LD50 > 32,000 mg/kg, well above the 5,000 mg/kg threshold required for classification as hazardous

Acute toxicity (inhalation): This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): LC50 > 120 mg/L for vapors, well above the 2 mg/L threshold required for classification as hazardous

Acute toxicity (dermal): This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): LD50 > 100,000 mg/kg, well above the 5,000 mg/kg threshold required for classification as hazardous

Skin corrosion/irritation: No skin irritation
Serious eye damage/eye irritation: Causes serious eye irritation
Respiratory or skin sensitization: No data available
Mutagenicity: No data available
Carcinogenicity: No data available
Reproductive toxicity: No data available
STOT - single exposure: No data available
STOT - repeated exposure: No data available
Aspiration hazard: No data available
Symptoms / effects: Inhalation of high vapor concentrations or ingestion may cause symptoms like headache, dizziness, nausea, and vomiting

Section 12: Ecological Information

No information available.

Section 13: Disposal Considerations

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

Section 14: Transport Information

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

Section 15: Regulatory Information

No information available.

Section 16: Other Information

The information provided in this Safety Data Sheet is correct to the best of our knowledge but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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