



SAFETY DATA SHEET

Date of Issue:

April 15, 2015

Section 1. Identification

Product Name: PHOTOPROBE® Biotin

Catalog No.: SP-1000 - 2-Butanol

Any additional components in this kit are considered non-hazardous and, therefore, non-classifiable in accordance with the GHS Safety Data Sheet guidelines.

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Section 2. Hazards Identification

GHS Classification:

Flammable Liquids - Category 3, H226
Eye Irritation - Category 2A, H319
STOT SE - Category 3, H335-H336

GHS Label:



Signal Word: Warning

Hazard Statements:

H226 Flammable liquid and vapor.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation
H336 May cause drowsiness or dizziness.

Precautionary Statements:

Keep away from heat/sparks/open flames/hot surfaces. No Smoking. Avoid breathing dust/fume/gas/mist/vapors spray. Wash skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell. IF ON SKIN: Immediately remove/take off all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a POISON Center for doctor/physician. If skin irritation or rash occurs: get medical advice/attention. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction. Store in well-ventilated place. Keep cool.

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Section 3. Composition/Information on Ingredients

Component:	CAS#:	EC#:	% by weight:
(+/-)-2-Butanol	78-92-2	201-158-5	>90%

The specific chemical and/or exact percentage (concentration) of composition has been withheld as a trade secret.

Section 4. First Aid Measures

- Inhalation:** Remove to fresh air. Obtain medical attention.
- Skin contact:** Wash thoroughly with water for at least 15 minutes. Obtain medical attention.
- Eye contact:** Wash thoroughly with water for at least 15 minutes. Obtain medical attention.
- Ingestion:** Do not induce vomiting. If person is conscious, wash out mouth with water. Obtain medical attention.

Section 5. Fire Fighting Measures

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment: Use respirator. Toxic gases can be evolved.

Section 6. Accidental Release Measures

Wear protective clothing to prevent contact with eyes and skin. Ensure adequate ventilation. Collect on absorbent material and dispose of according to federal, state and local environmental regulations.

Section 7. Handling and Storage

Handling: Use only with adequate ventilation. Wear eye protection and compatible chemical-resistant gloves.

Storage: Store in refrigerator. Protect from light

Section 8. Exposure Controls/Personal Protection

Engineering controls:

Use enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below recommended exposure limits.

Personal protection:

Hand protection - Compatible chemical-resistant gloves.

Eye protection - Chemical safety goggles.

Skin protection - Lab coat.



Section 9. Physical and Chemical Properties

Appearance:	Clear Liquid	Flash point:	26 °C
Odor:	Alcohol-like	Autoflammability:	Not determined
pH:	Not determined	Vapor pressure:	15.3 hPa (11.5 mmHg) at 20° C (68 °F) 24.4 hPa (18.3 mmHg) at 25° C (77 °F)
Boiling point:	98 °C (208 °F)	Relative density:	0.808 g/cm ³ at 25 °C (77 °F)
Melting point:	-115 °C (-175 °F)	Solubility:	Not applicable

Section 10. Stability and Reactivity

Chemical stability: Stable under recommended storage conditions.

Conditions to avoid: Light

Materials to avoid: Strong oxidizers.

Hazardous reactions/decomposition products: Carbon monoxide, carbon dioxide, nitrogen oxides.

Section 11. Toxicological Information

Information on toxicological effects

Specific target organ toxicity - May cause drowsiness or dizziness. May cause respiratory irritation. Irritant to skin and mucous membranes. Causes serious eye irritation.

Acute effects:

Not determined.

Chronic effects:

Not determined.

Toxicity data: Oral: LD50 6480 mg/kg (rat)

Only selected RTECS data is shown.

Section 12. Ecological Information

Data not available.

Section 13. Disposal Considerations

Observe all federal, state and local environmental regulations.

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Section 14. Transport Information

DOT (US):	Excepted Quantity UN number: 1120 Class: 3 Proper shipping name: Butanols Poison Inhalation Hazard: No	Packing group: III
RID/ADR:	Excepted Quantity UN number: 1120 Class: 3 Proper shipping name: Butanols	Packing group: III
IMDG:	Excepted Quantity UN number: 1120 Class: 3 Proper shipping name: Butanols	Packing group: III
IATA:	Excepted Quantity UN number: 1120 Class: 3 Proper shipping name: Butanols	Packing group: III

Section 15. Regulatory Information

SARA:

SARA 302 - No chemicals in this material are subject to the reporting requirements.

SARA 313 - The following components are subject to reporting levels: CAS #78-82-2

SARA 355 - This material is not listed as extremely hazardous.

Risk phrases:

R10: Flammable.

R36/37: Irritating to eyes and respiratory system.

R67: Vapors may cause drowsiness and dizziness.

Safety phrases:

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39 - Wear suitable protective clothing, gloves and eye face protection.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

California Prop. 65 components:

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16. Other Information

The information contained in this Material Safety Data is believed to be accurate but it is the responsibility of the user to determine the applicability of these data to the formulation of necessary safety precautions. Vector Laboratories, Inc. shall not be held responsible for any damage resulting from the use of the above product or the information contained in this Material safety Data Sheet.