



SAFETY DATA SHEET

Section 1. Identification

PRODUCT NAME: Reef Friendly Coconut SPF-50 Sunscreen
SYNONYM(S): Alcohol-Based Bag-on-Valve Sunscreen;
PRODUCT USE: Consumer product; Sunscreen
SDS NUMBER: SD31037
PHONE NUMBER(S): (704) 872-7277
INFORMATION: BOV Solutions
1105 E. Garner Bagnal Blvd.
Statesville, NC 28677
EMERGENCY TELEPHONE: 911

Section 2. Hazard(s) Identification

LABEL ELEMENTS:

SIGNAL WORD: DANGER

PICTOGRAMS:



Classification	Hazard Statement
Aerosol : Category 1	Extremely flammable aerosol Pressurized container: may burst if heated
Eye Damage/Irritation : Category 2	Causes Eye Irritation
Skin Irritation : Category 2	
Specific Target Organ Toxicity, Single Exposure : Category 3	

Consumers: Refer to the package insert or product label for appropriate consumer-specific information about this product when used according to manufacturer's directions.

PHYSICAL HAZARD PRECAUTIONARY STATEMENTS:

Contents under pressure

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source.

Do not pierce or burn, even after use.

Protect from sunlight.

Do not expose to temperatures exceeding 50 °C/122°F.

POTENTIAL HEALTH EFFECTS:

ACUTE EFFECTS:

- Eye:** Direct contact may cause eye irritation, temporary redness, and discomfort.
- Skin:** No significant irritation expected.
- Inhalation:** No significant irritation expected from a single exposure. May be harmful if inhaled. May be corrosive to respiratory passages.
- Oral:** Small amounts transferred to the mouth by fingers during use, etc. is not likely to cause harmful effect. Swallowing large amounts may be harmful and cause burns of the mouth, throat and stomach, discomfort, nausea, vomiting and diarrhea.

PROLONGED / REPEATED EXPOSURE EFFECT:

- Chronic Exposure:** For purposes of chronic exposure under OSHA Hazard Communication Standard, this is an untested mixture. Alcohol based Bag-on-Valve sunscreen products have been used extensively by consumers and no significant adverse effects have been noted when used normally.
- Target Organs:** This product contains ethanol. Alcoholic beverage consumption has been associated with brain damage, hearing damage, and pancreatitis in humans. The relevance of these findings to ethanol exposure in industrial environments is uncertain. Overexposure to ethanol has been suggested as a cause of the following effects in laboratory animals: Pancreatic damage, liver damage, brain damage, and testis damage. In humans overexposure has been suggested as a cause of the liver damage.

CARCINOGEN STATUS:

OSHA: No NTP: No IARC: No

SKIN:

No evident of harmful effects from available information.

INHALATION:

No significant irritation expected from a single exposure. May be harmful if inhaled. May be corrosive to respiratory passages.

ORAL:

Small amounts transferred to the mouth by fingers during use, etc. is not likely to cause harmful effects. Swallowing large amounts may be harmful and cause burns of the mouth, throat and stomach, discomfort, nausea, vomiting and diarrhea.

Section 3. Composition / Information on Ingredients

PRODUCT USE:

Consumer Product

CHEMICAL FORMULA:

Mixture

The formulations for these products are proprietary information. These formulations have the same hazardous profile; however, the presence of hazardous ingredients may vary by formulation. Only hazardous ingredients in concentrations of 1% or greater and/or carcinogenic ingredients in concentrations of 0.1% or greater are listed in the Chemical Composition table. Active ingredients in any concentration are listed.

CHEMICAL COMPOSITION

INGREDIENT	CAS NUMBER	PERCENT
Ethyl Alcohol	64-17-5	45-85
Avobenzone	70356-09-1	3
Octisalate	118-60-5	5
Octocrylene	6197-30-4	8
Homosalate	118-56-9	15

ADDITIONAL INFORMATION: This SDS is written to provide health and safety information for individuals who will be handling the final product formulation during research, manufacturing, and distribution. For health and safety information for individual ingredients used during manufacturing, refer to the appropriate SDS for each ingredient. Refer to the package insert or product label for handling guidance for the consumer.

COMMENTS: Hazardous ingredients are listed if they comprise $\geq 1.0\%$ by weight. "Special Hazardous Substances or Carcinogens" are listed if they comprise $\geq 0.1\%$ by weight.

Section 4. First-Aid Measures

INHALATION: Remove to fresh air. If any trouble breathing, get immediate medical attention. Administer artificial respiration if breathing has ceased. If irritation or symptoms occur or persist, consult a physician.

SKIN CONTACT: In keeping with good hygienic practices, wash exposed areas thoroughly with soap and water.

EYE CONTACT: In case of eye contact, IMMEDIATELY rinse eyes thoroughly with plenty of water. If wearing contact lenses, remove only after initial rinse, and continue rinsing eyes for at least 15 minutes. Get IMMEDIATE medical attention.

INGESTION: Rinse mouth and drink a glass of water. Do not induce vomiting unless under the direction of a qualified medical professional or Poison Control Center. If symptoms persist, consult a physician.

Section 5. Fire-Fighting Measures

FLAMMABILITY DATA:

Flash Point: Approximately 12°-21° C (55° - 70° F)
Explosion Point: Reported value for Ethanol LEL 3.5% UEL 19%
Classification: Highly Flammable (EU Criteria)
Flammable (US OSHA Criteria)
Flammable (Canada WHMIS Criteria)

SPECIAL FIRE FIGHTING PROCEDURES: Wear full protective clothing and self-contained breathing apparatus (SCBA).

SUITABLE EXTINGUISHING MEDIA: Carbon dioxide (CO₂), extinguishing powder or water spray.

See section 9 for Physical and Chemical Properties.

Section 6. Accidental Release Measures

PERSONAL PRECAUTIONS:

Wear appropriate personal protective equipment as specified in Section 8. Keep personnel away from the clean-up area.

SPILL RESPONSE / CLEANUP:

All spills should be handled according to site requirements and based on precautions cited in the SDS. In the case of liquids, use proper absorbent materials. Absorb and/or contain spill with inert material, then place in suitable container. Do not absorb with combustible material such as: sawdust or cellulosic material. Use only non-sparking tools. For laboratories and small-scale operations, incidental spills within a hood or enclosure should be cleaned by using a HEPA filtered vacuum or wet cleaning methods as appropriate. For large dry or liquid spills or those spills outside enclosure or hood, appropriate emergency response personnel should be notified. In manufacturing and large-scale operations, HEPA vacuuming prior to wet mopping or cleaning is required.

See section 9 for Physical and Chemical Properties.

Section 7. Handling & Storage

HANDLING:

Contents under pressure. Avoid contact with eyes. Keep containers adequately sealed during material transfer, transport, or when not in use. Wash face, hands, and any exposed skin after handling. Do not eat, drink, or smoke when using the substance or mixture.

Appropriate handling of this material is dependent on many factors including physical form, duration and frequency of process or task, and effectiveness of engineering controls. Site-specific risk assessments should be conducted to determine the feasibility and the appropriateness of all exposure control measures. See Section 8 (Exposure Controls) for additional guidance.

STORAGE:

Keep away from heat, sparks, open flames, and direct sunlight. Store in a cool, dry, well ventilated area. Store at < 48.9° C (120° F).

See section 8 for Physical and Chemical Properties.

Section 8. Exposure Controls / Personal Protection

EXPOSURE CONTROLS:

The health hazard risks of handling this material are dependent on many factors, including physical form, duration and frequency of process or task, and effectiveness of engineering controls. Site-specific risk assessments should be conducted to determine the feasibility and the appropriateness of all exposure control measures. Exposure controls for normal operating or routine procedures follow a tiered strategy. Engineering controls are the preferred means of long-term or permanent exposure. Control. If engineering controls are not feasible, appropriate use of personal protective equipment (PPE) may be considered as alternative control measures. Exposure controls for non-routine operations must be evaluated and addressed as part of the site-specific risk assessment.

RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT (PPE):

RESPIRATORY PROTECTION: None required for consumer use of this product.

Respiratory protective equipment (RPE) may be required for certain laboratory and large-scale manufacturing tasks if potential airborne breathing zone concentrations of substances exceed the relevant exposure limit(s). Workplace risk assessment should be completed before specifying and implementing RPE usage. Potential exposure points and pathways, task duration and frequency, potential employee contact with the substance, and the ability of the substance to be rendered airborne during specific tasks should be evaluated. Initial and ongoing strategies of quantitative exposure measurement should be obtained as required by the workplace risk assessment. All RPE must conform to local and regional specifications for efficacy and performance. Consult your site or corporate health and safety professional for additional guidance.

SKIN PROTECTION: None required for consumer use of this product.

Gloves that provide an appropriate barrier to the skin are recommended if there is potential for contact with this material. Consult your site safety staff for guidance.

EYE PROTECTION: None required for consumer use of this product.

Safety glasses with side shields. Use of goggles or full face protection is required if there is potential for contact with this material. Consult your site safety staff for guidance.

BODY PROTECTION: None required for consumer use of this product.

In small-scale or laboratory operations, lab coats or equivalent protection is required. Disposable Tyvek or other dust impermeable suit should be considered based on procedure or level of exposure. Use of additional PPE such as shoe coverings, gauntlets, hood, or head covering may be necessary. Consult your site safety staff for guidance.

In large-scale or manufacturing operations, disposable Tyvek or other dust impermeable suit is recommended and based on level of exposure. Use of additional PPE such as shoe coverings, gauntlets, hood, or head covering may be necessary. Consult your site safety staff for guidance.

ENGINEERING CONTROLS: Eyewash Stations; Ventilation Systems; Showers

EXPOSURE LIMIT VALUES

INGREDIENT	CAS NUMBER	ACGIH TLV (STEL / SKIN)	NIOSH IDLH	OSHA PEL (TWA)
Ethyl Alcohol	64-17-5	TWA: 1000 ppm	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m ³	1000 ppm 1900 mg/m ³

Section 9. Physical & Chemical Properties

PHYSICAL STATE:	Liquid
COLOR:	Pale Yellow to Yellow
ODOR:	Coconut
pH @ 25°C ± 0.5°C:	No data available
ODOR THRESHOLD:	No data available
pH @ 25°C ± 0.5°C:	No data available
MELTING POINT:	No data available
FREEZING POINT:	No data available
INITIAL BOILING POINT:	No data available
BOILING RANGE:	No data available
FLASH POINT:	No data available
EVAPORATION RATE:	No data available
FLAMABILITY:	No data available
FLAMABILITY LIMITS:	No data available
EXPLOSION LIMITS:	No data available
VAPOR PRESSURE:	No data available
VAPOR DENSITY:	No data available
RELATIVE DENSITY	
SG @ 25°C ± 0.5°C:	0.807 – 0.907
SOLUBILITY	
WATER:	Emulsifies to a milky, white solution.
ETHANOL:	Soluble
PARTITION COEFFICIENT	
N-OCTANOL/WATER:	No data available
AUTO-IGNITION TEMPERATURE:	No data available
DECOMPOSITION TEMPERATURE:	No data available
VISCOSITY:	No data available

See section 5 for flammability/exclusivity information.

Section 10. Stability & Reactivity

STABILITY / REACTIVITY:	Stable under normal conditions.
INCOMPATIBLE MATERIALS / CONDITIONS TO AVOID:	Open flames and high temperatures.
HAZARDOUS DECOMPOSITION PRODUCTS / REACTIONS:	No dangerous decomposition is expected if used according to manufacturer's specifications.

Section 11. Toxicological Information

These data are from studies using the maximum concentrations of the active ingredients in the final formulation. The information presented below pertains to the formulated product unless indicated otherwise.

ACUTE TOXICITY DATA

SKIN: This product has been evaluated against skin irritation and no adverse effects are expected from the use of this finished product.

CHRONIC TOXICITY: None known.

TARGET ORGAN EFFECTS:
None known.

OTHER ADVERSE EFFECTS: None known.

Section 12. Ecological Information

There is no data for the final product or its formulation(s). The information presented below pertains to the following ingredient(s).

ENVIRONMENTAL DATA

INGREDIENT ENVIRONMENTAL DATA: Avobenzone is not readily biodegradable.

Section 13. Disposal Considerations

MATERIAL WASTE TREATMENT METHODS:

Disposal must be in accordance with applicable federal, state/provincial, and/or local regulations.

PACKAGING AND CONTAINERS:

Disposal must be in accordance with applicable federal, state/provincial, and/or local regulations.

Section 14. Transport Information

This product may be shipped as a Consumer Commodity when packaged and shipped for consumer use. Refer to site-specific procedures and requirements for additional guidance.

DOT CLASSIFICATION:

PROPER SHIPPING NAME: Limited Quantity/Consumer Commodity. Exempt from Regulation except when shipped by air. Intended for commercial transportation only.

AIR IATA/ICAO CLASSIFICATION:

PROPER SHIPPING NAME: ID 8000, Consumer Commodity, 9, Limited Quantity

CANADA / MEX / TDG:

PROPER SHIPPING NAME: Aerosols
HAZARD CLASS: 9
UN NUMBER: UN 1950
PACKING GROUP: Limited Quantity

OCEAN / IMDG/IMO CLASSIFICATION:

PROPER SHIPPING NAME: Aerosols
HAZARD CLASS: 9
UN NUMBER: UN 1950
PACKING GROUP: Limited Quantity
EMS NUMBER: F-D, S-U
VESSEL STOWAGE: A

Section 15. Regulatory Information

INTERNATIONAL INVENTORIES

TSCA: Listed
DSL: Listed
NDSL: Not Listed
EINECS / ELINCS: Listed
PICCS: Listed
ENCS: Listed
KECL: Listed
PICCS: Listed
AICS: Listed

LEGEND:

TSCA: United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL: Canadian Domestic Substances List / Non-Domestic Substances List
EINECS/ELINCS: European Inventory of Existing Chemical Substances European List of Notified Chemical Substances
ENCS: Japan Existing and New Chemical Substances
IECSC: China Inventory of Existing Chemical Substances
KECL: Korean Existing and Evaluated Chemical Substances
PICCS: Philippines Inventory of Chemicals and Chemical Substances
AICS: Australian Inventory of Chemical Substances

US FEDERAL REGULATIONS

SARA 313:

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 HAZARD CATEGORIES

Acute health hazard: No
Chronic health hazard: No
Fire hazard: No
Sudden release of pressure hazard: No
Reactive hazard: No

CWA (CLEAN WATER ACT)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US STATE REGULATIONS

CALIFORNIA PROPOSITION 65

This product is not subject to warning labeling under California Proposition 65

U.S. STATE RIGHT-TO-KNOW

No data available

U.S. EPA LABEL INFORMATION

EPA Pesticide Registration Number: Not Applicable

Section 16. Other Information

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequence of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).

NFPA Ratings:	HEALTH:	2
	FLAMMABILITY:	3
	REACTIVITY:	0

DISCLAIMER:

BOV Solutions provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

BOV Solutions makes no representations or warranties, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, BOV Solutions will not be responsible for damages resulting from use of or reliance upon this information.

CREATION DATE: 05/28/2021