

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: True Timber BodyGuard 20% Spray

Recommended Use: Topical Insect Repellent

Restrictions on Use: Use only as recommended by the label.

Manufacturer Address: Crossroads Management, LLC
302 Forest St. #200
Hattiesburg, MS 39401

Emergency telephone number: Chemtrec (800) 424-9300

Lanxess (Picaridin) Emergency Phone (800) 410-3063.

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Classification of substance or mixture:

Physical State: Liquid

FLAMMABLE LIQUIDS - Category 3

SKIN IRRITATION – Category 2

SERIOUS EYE DAMAGE/EYE IRRITATION – Category 2A

SKIN SENSITIZATION – Category 1

SPECIFIC ORGAN TOXICITY (SINGLE EXPOSURE) [Respiratory tract irritation and narcotic effects] – Category 3

SPECIFIC ORGAN TOXICITY (REPEATED EXPOSURE) [brain and nervous system] – Category 2

HAZARD PICTOGRAMS:



SIGNAL WORD (GHS-US) : **WARNING**

HAZARD STATEMENTS: Flammable liquid and vapor. Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. May cause respiratory irritation. May cause drowsiness and dizziness. May cause damage to organs through prolonged or repeated exposure. (brain, nervous system).

HAZARD NOT OTHERWISE CLASSIFIED (HNOC): None known.

2. HAZARDS IDENTIFICATION (cont.)

PRECAUTIONARY STATEMENTS (GHS-US): Wear protective gloves and eye/face protection. Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only in a well-ventilated area. Do not breathe vapor. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

RESPONSE: Get medical attention if you feel unwell. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical attention. 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 attention.

STORAGE: Store in locked facility. Store in a well-ventilated place. Keep cool.

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

SUPPLEMENTAL LABEL ELEMENTS: Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization: Mixture
Hazardous Ingredients of mixture are listed below:

Chemical name	CAS-No	Weight %
Ethanol	64-17-5	27-33%
Benzoic Acid , 2-hydroxy-, hexyl ester	6259-76-3	<0.2%

Any concentration shown as a range is to protect confidentiality or is due to batch variation.
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 and hence require reporting in this section.
Occupational exposure limits, if available, are listed in Section 8.

4. FIRST AID MEASURES

EYE CONTACT

Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. In case of contact, flush eyes with plenty of water for at least 20 minutes. Use fingers to ensure that eyelids are separated and that the eye is being irrigated.

SKIN CONTACT

Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse. In case of contact, flush skin with plenty of water for at least 20 minutes.

INHALATION

Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

INGESTION

Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

POTENTIAL ACUTE HEALTH EFFECTS

EYE CONTACT: Causes serious eye irritation.

INHALATION: Can cause central nervous system (CNS) depression. May cause respiratory irritation.

SKIN CONTACT: Causes skin irritation. May cause an allergic skin reaction.

INGESTION: Can cause central nervous system (CNS) depression. Irritating to mouth, throat and stomach.

OVER-EXPOSURE SIGNS/SYMPTOMS

EYE CONTACT :Causes irritation with symptoms of reddening, tearing, stinging, and swelling.

INHALATION: May cause nervous system effects which can include symptoms of dizziness, incoordination, headache, numbness, and/or confusion. May cause respiratory tract irritation with symptoms of coughing, sore throat and runny nose.

SKIN CONTACT: Causes irritation with symptoms of reddening, itching, and swelling. Once sensitized, an allergic skin reaction may occur with reddening, swelling, and rash when subsequently exposed to very low levels.

INGESTION: May cause irritation; Symptoms may include abdominal pain, nausea, vomiting, and diarrhea. May cause nervous system effects which can include symptoms of dizziness, incoordination, headache, numbness, and/or confusion.

POTENTIAL CHRONIC HEALTH EFFECTS

May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

NOTES TO PHYSICIAN : Treat symptomatically. No specific treatment.

PROTECTION OF FIRST-AIDERS : No special measures required.

See toxicological information (Section 11)

5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: To extinguish any combustible residues, use foam, dry powder, carbon dioxide or water. Do not use water jet.

SPECIFIC HAZARDS ARISING FROM THE SUBSTANCE: Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

HAZARDOUS THERMAL DECOMPOSITION PRODUCTS: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides

SPECIAL PROTECTIVE ACTIONS FOR FIRE FIGHTERS: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. If this is impossible, withdraw from area and allow fire to burn. Fight fire from protected location or maximum possible distance.

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Prevent unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

ENVIRONMENTAL PRECAUTIONS: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

METHODS FOR CONTAINMENT : Absorb with appropriate non-combustible inert material such as sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13).

7. HANDLING AND STORAGE

HANDLING: Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container. Remove contaminated clothing and protective equipment before entering eating areas. Workers should wash hands and face before eating, drinking and smoking. Put on appropriate personal protection equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

STORAGE: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Empty containers retain product residue and can be hazardous. Do not reuse container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS:

Ingredient name	Exposure limits
Ethanol	ACGIH TLV (United States, 4/2014). STEL: 1000 ppm 15 minutes. OSHA PEL (United States, 2/2013). TWA: 1000 ppm 8 hours. TWA: 1900 mg/m ³ 8 hours.

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

APPROPRIATE ENGINEERING CONTROLS: Emergency eye wash fountains should be available. Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION: Safety glasses with side shields.

SKIN AND BODY PROTECTION: Permeation resistant gloves. Wear cloth work clothing including long pants and longsleeved shirts. Suitable protective footwear

RESPIRATORY PROTECTION: In case of insufficient ventilation, wear suitable respiratory equipment. NIOSH approved, air-purifying organic vapor respirator.

HYGIENE MEASURES: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing.

9. PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Color	No information available
Odor	No information available
pH	7.0-9.0
Melting point/freezing point	No information available
Boiling Point/Range	>35°F
Flash point	Closed cup: 26°C (78.8°F)
Evaporation Rate	No information available
Explosion Limits	No information available
Vapor pressure	No information available
Vapor density	No information available
Density	0.96g/cm ³
Specific gravity	No information available
Water solubility	Complete
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Viscosity, kinematic	No information available
Viscosity, dynamic	No information available
Explosive properties	Not explosive
Oxidizing properties	No information available

10. STABILITY AND REACTIVITY

Chemical Stability : No specific test data available for this product or its ingredients.

Possibility of Hazardous Reactions: None, under normal storage conditions

Hazardous polymerization: None

Conditions to avoid: Under normal conditions of use and storage hazardous reactions will not occur.

Incompatible materials: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind, or expose to heat. Reactive or incompatible with oxidizing materials

Hazardous Decomposition Products:None, under normal use and storage conditions

11. TOXICOLOGICAL INFORMATION

LIKELY ROUTES OF EXPOSURE: Dermal contact. Eye contact. Inhalation. Ingestion.

POTENTIAL ACUTE HEALTH EFFECTS:

Eye: Causes serious eye irritation.

Skin: Causes skin irritation. May cause an allergic skin reaction

Inhalation: Can cause central nervous system (CNS) depression. May cause respiratory irritation

Ingestion: Can cause central nervous system (CNS) depression. Irritating to mouth, throat and stomach.

SYMPTOMS RELATED TO PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:

Eye: Causes serious eye irritation.

Skin: Causes irritation with symptoms of reddening, itching, and swelling. Once sensitized, an allergic skin reaction may occur with reddening, swelling, and rash when subsequently exposed to very low levels.

Inhalation: May cause nervous system effects which can include symptoms of dizziness, incoordination, headache, numbness, and/or confusion. May cause respiratory tract irritation with symptoms of coughing, sore throat and runny nose.

Ingestion: May cause irritation; Symptoms may include abdominal pain, nausea, vomiting, and diarrhea.

DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE:

Chronic toxicity/Target organs: May cause nervous system effects which can include symptoms of dizziness, incoordination, headache, numbness, and/or confusion. May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels

Mutagenicity	No known significant effects
Carcinogenicity	No known significant effects
Reproductive toxicity	No known significant effects
Developmental toxicity	No known significant effects
Aspiration hazard	No information available

INGREDIENT TOXICOLOGY INFORMATION

Ingredient Name	Result	Species	Dose	Exposure
Ethanol	LD 50 Oral	Rat	5000mg/kg	
Benzoic acid, 2-hydroxy-hexylester	LD 50 Oral	Rat	>5000mg/kg	
Ethanol	LD 50 Dermal	Rabbit	>1000mg/kg	
Benzoic acid, 2-hydroxy-hexylester	LD 50 Dermal	Rabbit	>5000/mg/kg	
Ethanol	LC 50 Inhalation	Rat	>1800mg/L	4 hours

Irritation:

Product/ingredient name	Result	Species	Score	Exposure	Observation
benzoic acid, 2-hydroxy-, hexyl ester	Skin - Irritant	Rabbit	-	-	-
	Eyes - Draize	Rabbit	0	-	-

Conclusion/Summary

Skin : Ethanol:Moderate irritant , Rabbit
Eyes : Ethanol:Severe irritant , Rabbit

Sensitization

Product/ingredient name	Route of exposure	Species	Result
Ethanol	skin	Guinea pig	Not sensitizing
benzoic acid, 2-hydroxy-, hexyl ester	skin	Mouse	Sensitizing

Product/ingredient name	Result	Species	Dose	Exposure
Ethanol	Chronic NOAEL Oral	Rat	10 g/kg	84 days
	Chronic NOAEL Inhalation Gas.	Guinea pig	3000 ppm	74 days
benzoic acid, 2-hydroxy-, hexyl ester	Sub-acute NOAEL Oral	Rat - Male, Female	4.7 mg/kg bw/day	13 weeks; 7 days per week

Mutagenicity

Product/ingredient name	Test	Experiment	Result
Ethanol	Ames test	Experiment: In vitro Subject: Bacteria Metabolic activation: +/-	Negative
benzoic acid, 2-hydroxy-, hexyl ester	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria Metabolic activation: with/without	Negative
	OECD 476 <i>In vitro</i> Mammalian Cell Gene Mutation Test	Experiment: In vitro Subject: Mammalian-Animal Metabolic activation: with/without	Negative

Carcinogenicity

Product/ingredient name	Result	Species	Dose	Exposure
Ethanol	Negative - Oral -	Rat - Male. Female	-	2 years
Product/ingredient name	CAS #	IARC	NTP	OSHA
Ethanol	64-17-5	Not classified.	Not classified.	Not classified.
benzoic acid, 2-hydroxy-, hexyl ester	6259-76-3	Not classified.	Not classified.	Not classified.

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Species	Dose	Exposure
benzoic acid, 2-hydroxy-, hexyl ester		Rat - Male, Female	Oral: 540 mg/kg bw/ day	21 days; 7 days per week

Teratogenicity

Product/ingredient name	Result	Species	Dose	Exposure
benzoic acid, 2-hydroxy-, hexyl ester	Negative - Oral	Rat - Female	360 mg/kg bw/ day	20 days; 7 days per week 9Days

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Ethanol	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects

12. ECOLOGICAL INFORMATION

Toxicity

Product/ingredient name	Test	Result	Species	Exposure
Ethanol benzoic acid, 2-hydroxy-, hexyl ester	-		Daphnia - Daphnia magna	48 hours
	-	Acute EC50 8900 mg/l	Fish - Leuciscus idus	96 hours
	OECD 201 Alga, Growth Inhibition Test	Acute LC50 4600 mg/l	Algae - Desmodesmus subspicatus	72 hours
	OECD 202 <i>Daphnia</i> sp. Acute Immobilization Test EU C.1	Acute EC50 0.61 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
		Acute EC50 0.357 mg/l Fresh water	Fish - Danio rerio	48 hours
		Acute LC50 1.34 mg/l Fresh water		96 hours

Conclusion/summary: No information available

Persistence and degradability

Section 12. Ecological information

Product/ingredient name	Test	Result	Dose	Inoculum
benzoic acid, 2-hydroxy-, hexyl ester	OECD 301F Ready Biodegradability - Manometric Respirometry Test	91 % - Readily - 28 days	100 mg/l	Activated sludge

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Ethanol	-	50%; 0.6 day(s)	Readily
benzoic acid, 2-hydroxy-, hexyl ester	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Ethanol	-0.32	-	low
benzoic acid, 2-hydroxy-, hexyl ester	5.5	-	high

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods: The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Waste disposal should be in accordance with existing federal state, provincial and or local environmental controls laws.

RCRA Classification: When discarded in its purchased form, this product meets the criteria of ignitability, and should be managed as a hazardous waste (EPA Hazardous Waste Number D001). (40 CFR 261.20-24)

14. TRANSPORT INFORMATION

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	UN1170	Ethanol solutions	3	III		24, B1, IB3, T2, TP1
IMDG Class	UN1170	ETHANOL SOLUTION	3	III		<u>Emergency schedules (EmS)</u> F-E, S-D
IATA-DGR Class	UN1170	ETHANOL SOLUTION	3	III		<u>Passenger aircraft</u> 355: 60 L <u>Cargo aircraft</u> 366: 220 L

Section 14. Transport information

PG* = Packing group

RQ : 0 lbs

15. REGULATORY INFORMATION

SARA 311/312: Fire Hazard, immediate (acute) health hazards, Delayed (chronic) health hazard

SARA Title III Section 302

Extremely Hazardous Substances: None

SARA Title III Section 313 Toxic Chemicals : None

US EPA CERCLA Hazardous Substances (40 CFR 302): None

FIFRA: This is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements may differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The pesticide label also includes other important information, including directions for use.

State regulations

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections on the SDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

<u>Ingredient name</u>	<u>CAS number</u>	<u>State Code</u>	<u>Concentration (%)</u>
Ethanol	64-17-5	MA - S, NJ - HS, PA - RTK HS	27 - 33%
Water	7732-18-5		30 - 36%
Polyethylene Glycol	25322-68-3		18 - 24%
1-Piperidinecarboxylic Acid, 2-	119515-38-7		17 - 23%

(2-hydroxyethyl)-, 1-methylpropylester

Massachusetts Substances: MA - S

Massachusetts Extraordinary Hazardous Substances: MA - Extra HS

New Jersey Hazardous Substances: NJ - HS

Pennsylvania RTK Hazardous Substances: PA - RTK HS

Pennsylvania Special Hazardous Substances: PA - Special HS

California Prop. 65

To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

16. OTHER INFORMATION

HMIS	Health Hazards 2 *	Flammability 3	Physical hazard 0
NFPA	Health 2	Flammability 3	Reactivity 0

**Indicates a chronic health hazard.*

Revision date: 4/15/18

Revision note: Initial issue

Disclaimer : Information contained in this Safety Data Sheet is derived from available published sources and is believed to be accurate. No warranty is expressed or implied regarding the accuracy of these data or results to be obtained for the use thereof. Bar Maid Corporation assumes no responsibility for injury of the user or other party if reasonable safety measures are not followed as provided with the product label and this data sheet, or for aberrant use of the product.

Prepared By: J.M.Spagnoli

Issuing Date: 4/16/18

End of Safety Data Sheet