



# MATERIAL SAFETY DATA SHEET

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Prepared according to 29CFR 1910.1200, Regulation (EC) No. 1272/2008 (GHS) and Canadian Controlled Products Act (CPR)

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** *After Bite® ; Boots® Bite & Sting Relief*  
**Product Code:** *0001-1100*  
**MSDS Date:** *May 8, 2012*  
**MSDS Revision No.:** *4*  
**USE:** *Insect bit treatment*

**HMIS Hazard Rating**  
HEALTH 2  
FLAMMABILITY 0  
REACTIVITY 0  
PERSONAL PROTECTION X

**MANUFACTURER:** *Tender Corporation*  
**ADDRESS:** *106 Burndy Road  
Littleton, NH 03561*  
**INFORMATION CALLS:** *800-258-4696*  
**E-Mail:** *customerservice@tendercorp.com*  
**FAX PHONE:** *603-444-6735*

**EMERGENCY PHONE:** *Spills:(800) 354-2382 (Veolia)  
Medical Information:(800) 258-4696 (Tender Corporation)*

### SECTION 2: HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** *Milky white non-flammable water soluble liquid with a strong ammonia odor*

**HAZARD CLASSIFICATION:** *Warning*  
**GHS Label elements, including precautionary statements**  
*Pictogram*



**Signal word:** **WARNING**

**Hazard statement(s)**  
*H302 Harmful if swallowed*  
*H319 Causes serious eye irritation*  
*H315 Causes skin irritation*  
*H332 Harmful if inhaled*  
*H412 Harmful to aquatic organisms and may cause long-term adverse effects in the aquatic environment*

**Precautionary statement(s)**  
*P102 Keep out of the reach of children*  
*P234 Keep in original container*  
*P305+P351+P338 IF IN EYES; Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing*  
*P301+330+331+315 IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Get immediate medical advice/attention.*  
*P304+340+312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a Poison Center or doctor/physician if yo feel unwell.*  
*P273 Avoid release to the environment*

**ROUTES OF EXPOSURE:** *Dermal, oral, inhalation*

### POTENTIAL HEALTH EFFECTS

**INHALATION:** *May cause irritation to lungs*  
**SKIN CONTACT:** *Do not use over cuts, wounds or irritated skin  
Pre-existing skin disorders may be aggravated by exposure*  
**EYE CONTACT:** *Prolonged contact may cause irritation, with redness, pain, tearing, blurred vision and conjunctivitis.*  
**INGESTION:** *May be harmful if swallowed.*



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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	Conc.( %)	CAS NO.	EINECS NO.	Classification
Ammonia	< 3.5%	7664-41-7	231-635-3	EU-X <sub>i</sub> ;WHMIS-Class E
Water	< 86.0	7732-18-5	231-791-2	None
Mineral Oil	< 1.0	8042-47-5	232-455-8	EU-X <sub>i</sub> ;
Other Components	Each <1.0			

See Section 8 – "EXPOSURE CONTROLS/PERSONAL PROTECTION" for exposure guidelines

### SECTION 4: FIRST AID MEASURES

- INHALATION:** Move victim to fresh air. Apply artificial respiration if indicated. Contact a physician if warranted.
- CONTACT WITH SKIN:** Take off contaminated clothing. Immediately wash gently and thoroughly with luke warm, gently flowing water and non-abrasive soap for 15-20 mins. If skin irritation or rash occurs, see a doctor. Thoroughly clean clothing before reuse or dispose of safely.
- CONTACT WITH EYES:** Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Remove contact lenses, if present and easy to do. Take care not to rinse contaminated water into the unaffected eye or onto the face. If irritation or pain persists, see a doctor.
- INGESTION:** Have victim rinse mouth with water. NEVER give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. DO NOT INDUCE VOMITING. Contact a physician if warranted.

### SECTION 5: FIRE-FIGHTING MEASURES

**FIRE AND EXPLOSIVE PROPERTIES:** Non Flammable - This product is not flammable, combustible or explosive

Flash Point: Not applicable

Flammable Limits: Not applicable

**EXTINGUISHING MEDIA:** Water spray  
Carbon dioxide  
Dry Chemical or foam

**SPECIFIC HAZARDS:** In case of fire, hazardous combustion gases may be formed:  
Carbon monoxide (CO)  
Carbon Dioxide (CO<sub>2</sub>)  
Nitrogen oxides (NO<sub>x</sub>)

**PROTECT EQUIPMENT FOR FIREFIGHTERS:** Use self-contained breathing apparatus and full protective clothing

**FURTHER INFORMATION:** Fire residues and contaminated firefighting water must be disposed of in accordance with local regulations

### SECTION 6: ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** For Large Spills; Isolate the hazard area. Keep out unnecessary and unprotected personnel. Increase ventilation to area or move leaking container to a well-ventilated and secure area. Use the Personal Protective Equipment recommended in Section 8 of this MSDS. Review Section 7 (Handling) of this MSDS before proceeding with cleanup.

**ENVIRONMENTAL PRECAUTIONS:** Do not allow into any sewer, on to ground or into any waterway.

#### METHOD FOR CONTAINMENT AND CLEAN-UP:

Prevent product from entering drains and ventilation systems. Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered labeled containers for disposal. Large Spills: Dike spill product to prevent runoff. Recover contaminated water for appropriate disposal. Report spills to local health, safety and environmental authorities, as required.



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### SECTION 7: HANDLING AND STORAGE

**HANDLING:** Read entire label before using. Use strictly in accordance with label precautionary statements and directions. Do not contaminate food or feed.  
**STORAGE:** Keep product in its original container. Keep container tightly closed. Store this product in a cool, dry place away from heat or direct sunlight. Protect from freezing.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING CONTROLS:** General ventilation is usually adequate. When handling large quantities of concentrated product; Use local exhaust ventilation, if necessary.

**PERSONAL PROTECTIVE EQUIPMENT (PPE):** None required.

#### EXPOSURE GUIDELINES:

INGREDIENT:	CAS NO.	%	Exposure Limits		
			ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA
Ammonia	7664-41-7	< 3.5	18 mg/m <sup>3</sup> (TWA -25ppm)	40 ppm as STEL	
Mineral Oil	8012-95-1	< 1.0	5 mg/m <sup>3</sup> (Inhalation)		5 mg/m <sup>3</sup> (Inhalation)

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Milky white liquid  
**ODOR:** Ammonia  
**pH:** 10.0 to 12.4  
**BOILING POINT:** Not determined  
**MELTING POINT:** Not applicable  
**RELATIVE DENSITY (H<sub>2</sub>O = 1) @25°C:** 0.985 gm/ml  
**VAPOR PRESSURE (mmHg) @ °C:** Not applicable  
**VAPOR DENSITY (AIR = 1):** Not applicable  
**FLASH POINT:** Not expected for water-based product  
**SOLUBILITY IN WATER:** Complete  
**SOLUBILITY IN SOLVENTS:** Not determined  
**VISCOSITY:** Not applicable  
**VOLATILE ORGANIC COMPOUNDS (VOC):** Not determined  
**PARTITION COEFFICIENT:** Not determined

### SECTION 10: STABILITY AND REACTIVITY

**STABILITY:** Stable  
**CONDITIONS TO AVOID:** Extreme temperatures, Sunlight  
**INCOMPATIBILITY (MATERIAL TO AVOID):** **Metals and Oxidizing agents.** Attacks many metals forming explosive gas. Reacts violently with acids Strong acids, most common metals, strong oxidizing agents, bromine, chlorine, aluminum, copper, brass, bronze, hypochlorite, acids, monoammonium phosphate, sodium potassium alloy, strong alkalis or mineral acids.  
**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Ammonia, Carbon dioxide, Carbon monoxide, Nitrogen oxides  
**HAZARDOUS POLYMERIZATION:** Will not occur



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### SECTION 11: TOXICOLOGICAL INFORMATION

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The preparation has not been tested for all toxicological effects; some are classified on the basis of the known hazards of the components.

<b>Acute oral toxicity:</b>	<b>LD50</b> – 500 mg/kg male & female rat <b>Method:</b> OPPTS 870.1100, OECD 425 <b>Source:</b> Product Tested 2000
<b>Acute inhalation toxicity:</b>	<b>LC50</b> – Not determined <b>Method</b> <b>Source:</b>
<b>Acute dermal toxicity:</b>	<b>LD50</b> – Not determined <b>Method:</b> <b>Source:</b>
<b>Irritant effect on skin:</b>	Not considered to be a skin irritant <b>Method:</b> OPPTS 870.2500, OECD 404 <b>Source:</b> Product Tested 2000
<b>Irritant effect on eyes:</b>	Considered to be an eye irritant <b>Method:</b> OPPTS 870.2400, OECD 405 <b>Source:</b> Product Tested 2000
<b>Sensitization:</b>	Not determined <b>Method</b> <b>Source:</b>
<b>Mutagenicity:</b>	Not determined <b>Method</b> <b>Source:</b>
<b>Carcinogenicity/Reproductive toxicity:</b>	No components present in this material at concentrations of 0.1% or greater are listed by IARC, NTP, OSHA or ACGIH as being carcinogens. <b>Source:</b> Safety Data Sheets of components
<b>Specific Target Organ Toxicity</b>	<b>Single exposure (GHS)</b> – no data available <b>Repeated exposure (GHS)</b> - no data available
<b>Signs and Symptoms of Exposure</b>	Redness, rash or blistering

### POTENTIAL HEALTH EFFECTS

<b>INHALATION:</b>	Harmful if inhaled, May cause irritation to lungs
<b>SKIN CONTACT:</b>	Pre-existing skin disorders may be aggravated by exposure
<b>EYE CONTACT:</b>	Prolonged contact may cause irritation, with redness, pain, tearing, blurred vision and conjunctivitis.
<b>INGESTION:</b>	Harmful if swallowed

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### SECTION 12: ECOLOGICAL INFORMATION

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<b>General Comments:</b>	Ecotoxicological data have not been determined specifically for this product, but it is classified on the basis of the known hazards of the components. This section is not required by WHMIS.
<b>Mobility</b>	The product is water-based and expected to be mobile in the aquatic environment.
<b>Persistence/degradability</b>	Ammonium Hydroxide is readily biodegradable in the environment, according to ECBI/07/00 Rev. 3 (29/8/00). Mineral Oil is inherently biodegradable in water under aerobic conditions but limited by their low solubility in water.
<b>Bioaccumulation</b>	Ammonium Hydroxide has been shown to have a low bioaccumulation. (Log POW=2.02) Mineral Oil (Log POW >6).
<b>Toxicity</b>	The Ammonium Hydroxide has been shown to be toxic to aquatic organisms. (10mg/l<LC50 <100 mg/l)



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### SECTION 13: DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHOD:** Do not reuse any empty containers.

**US:** This product is not a hazardous solid waste as defined in Resource Conservation Recovery Act Regulations (40 CFR 261) and should be disposed of according to local, state and Federal regulations. Dispose of partially filled and empty containers by wrapping and discarding in trash.

**International:** This product should not be disposed of via the drains or by landfill. Disposal must be in accordance with current national and local regulations. Chemical residues generally count as special waste, and their disposal may be regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact either the authorities or approved waste disposal companies who will advise you on how to dispose of special waste. Packaging may contain residues of the product and should be treated accordingly.

General EU requirements are given in the Waste Framework Directive (75/442/EEC) and the Hazardous Waste Directive (91/689/EEC).

### SECTION 14: TRANSPORT INFORMATION

#### SHIPPING INFORMATION:

Marine Pollutant: No

Regulation	UN No.	Proper Shipping Name	Class	Package Group	Label	Additional Information
U.S. Department of Transportation (DOT) – Non-Bulk	–	–	–	–	–	Not regulated
U.S. Department of Transportation (DOT) – Bulk	3266	Corrosive liquids, n.o.s. Ammonium Hydroxide	8	III	C	Corrosive
Canadian Transportation of Dangerous Goods (TDG) Non-Bulk	–	Ammonium Hydroxide	8	–	E	Corrosive
International Maritime Dangerous Goods (IMDG) Non-Bulk	–	–	–	–	–	Not regulated
International Air Transport Assoc. (IATA) Non-Bulk	–	–	–	–	–	Not regulated

The transportation regulations are cited according to international regulations and in the form applicable to the United States and Canada. Possible national deviations in other countries are not considered.

### SECTION 15: REGULATORY INFORMATION

#### U.S. FEDERAL REGULATIONS:

**TSCA (TOXIC SUBSTANCE CONTROL ACT):** All components of this product are listed or exempt on the TSCA list

**CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):**

**CERCLA HAZARDOUS SUBSTANCE:** Ammonium hydroxide (CAS # 1336-21-6)

**CERCLA REPORTABLE QUANTITY:** RQ= 500lbs

**RCRA 261 (RESOURCE CONSERVATION RECOVERY ACT):** Ammonium hydroxide (CAS # 1336-21-6)

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

**Section 302 Extremely Hazardous Substances (TPQ):** TPQ=500lbs.

**311/312 HAZARD CLASS:** Acute Health and Chronic Health Hazard.

**313 REPORTABLE INGREDIENTS:** Ammonium hydroxide (CAS # 1336-21-6)

**California Proposition 65:** This product may contain trace amounts of Ethylene Oxide (CAS Number 75-21-8). This is a chemical known to the state of California to cause cancer.

**States Right to Know:** This product contains Ammonium hydroxide (CAS # 1336-21-6)

#### CANADIAN REGULATIONS:



**WHMIS CLASSIFICATION:** Class E- Corrosive

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

**DOMESTIC SUBSTANCE LIST (DSL)/NON-DOMESTIC SUBSTANCE LIST (NDSL):** All components are listed or exempt

**Canadian Ingredient Disclosure List:** Ammonium hydroxide (CAS # 1336-21-6), Mineral Oil (CAS # 8012-95-1)



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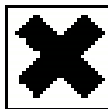
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### EU REGULATIONS:

Labeling in accordance with EC-Directives

Hazard symbols



Irritant



Pulmonary



Corrosive



Toxic to Aquatic Organisms

Hazardous component(s) to be indicated on label: *Contains Ammonium hydroxide, Mineral Oil*

EC Number

R phrases

20 Harmful by inhalation  
 22 Harmful if swallowed  
 36/37/38 Irritating to eyes, skin and respiratory system  
 65 Harmful: may cause lung damage if swallowed

S phrases

1/2 Keep locked and out of the reach of children  
 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  
 45 In case of accident or if you feel unwell seek medical advise immediately  
 49 Keep only in the original container  
 61 avoid release to the environment. Refer to special instructions/safety data sheet.

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### SECTION 16: OTHER INFORMATION

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<b>HMIS</b>		
<b>Health: 2</b>	<b>Flammability: 0</b>	<b>Reactivity: 0</b>
<b>Special: Corrosive</b>		

4=extreme 3=High 2=Moderate 1=Slight 0=Insignificant

### REVISED SECTIONS OR REASON FOR REVISION:

ORIGIN DATE: JAN 17, 2008

1--(JULY 22, 2008)-US MSDS

2--(MAY 11, 2009)-EU FORMAT

3--(JULY 7, 2011)-NEW GHS FORMATTING

4--(MAY 8, 2012) - MEDICAL INFORMATION PHONE # & ADDED E-MAIL ADDRESS, PRINT DATE, PRODUCT CODE, INGREDIENT RANGES

**DISCLAIMER:** *The information provided herein was believed to be accurate, to the best knowledge of Tender Corporation, at the time of preparation from a compilation of sources believed to be reliable and is furnished without warranty, expressed or implied. It is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling, storage and use of this product and to determine the suitability of the product for its intended use. This data sheet relates only to the specific product listed and does not relate to use in combination or in any process with other materials*