# SAFETY DATA SHEET

1. Identification

Product number 1000010168

Product identifier **BUG BUSTER INSECT KILLER** 

Distributed By 1st Ayd Corporation

1325 Gateway Drive

Elgin, IL 60124

General Assistance 847-622-0001 Company phone

Emergency telephone US 800-255-3924

Version # 01

Recommended use **PESTICIDE** Recommended restrictions None known.

2. Hazard(s) identification

Physical hazards Flammable aerosols

Health hazards Not classified. Not classified. Environmental hazards Not classified. OSHA defined hazards

Label elements



Signal word

Hazard statement Extremely flammable aerosol.

Precautionary statement

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open

flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Avoid

Category 1

release to the environment.

Collect spillage. Response

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Storage

Dispose of contents/container in accordance with local/regional/national/international regulations. Disposal

Hazard(s) not otherwise

Static accumulating flammable liquid can become electrostatically charged even in bonded and classified (HNOC)

grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

Supplemental information None.

## 3. Composition/information on ingredients

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Butane		106-97-8	2.5 - 10
Propane		74-98-6	2.5 - 10
Piperonyl Butoxide		51-03-6	1 - 2.5
Pyrethrins		8003-34-7	0.1 - 1
Other components below reporta	ble levels		60 - 80

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

Product name: BUG BUSTER INSECT KILLER #1451

SDS US Product #: 1000010168 Version #: 01 Issue date: 01-28-2015

#### 4. First-aid measures

Inhalation If symptoms develop move victim to fresh air. Get medical attention if symptoms persist. Wash off with soap and water. Get medical attention if irritation develops and persists. Skin contact

Direct contact with eyes may cause temporary irritation.

Rinse with water. Get medical attention if irritation develops and persists. Eye contact

In the unlikely event of swallowing contact a physician or poison control center. Ingestion

Most important

symptoms/effects, acute and delayed

General information

Indication of immediate medical attention and special

Provide general supportive measures and treat symptomatically.

treatment needed

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### Fire-fighting measures

Suitable extinguishing media

Water fog. Foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Contents under pressure. Pressurized container may explode when exposed to heat or flame. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water.

Special protective equipment and precautions for firefighters Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Fire-fighting equipment/instructions Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not

breathe fumes.

General fire hazards Extremely flammable aerosol.

#### Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Remove all possible sources of ignition in the surrounding area. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

Product name: BUG BUSTER INSECT KILLER #1451

SDS US Product #: 1000010168 Version #: 01 Issue date: 01-28-2015

# 7. Handling and storage

Precautions for safe handling

Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code".

Conditions for safe storage, including any incompatibilities

Level 1 Aerosol.

LIC OCUA Table 7.1 Limits for Air Contaminants (00 CED 1010 1000)

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Refrigeration recommended. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

Occupational exposure limits

Components	Type	Value	
Propane (CAS 74-98-6)	PEL	1800 mg/m3	
		1000 ppm	
Pyrethrins (CAS 8003-34-7)	PEL	5 mg/m3	
US. ACGIH Threshold Limit Values			
Components	Type	Value	
Butane (CAS 106-97-8)	STEL	1000 ppm	
Pyrethrins (CAS 8003-34-7)	TWA	5 mg/m3	
US. NIOSH: Pocket Guide to Chem	ical Hazards		
Components	Type	Value	
Butane (CAS 106-97-8)	TWA	1900 mg/m3	
		800 ppm	
Propane (CAS 74-98-6)	TWA	1800 mg/m3	
		1000 ppm	
Pyrethrins (CAS 8003-34-7)	TWA	5 mg/m3	

Biological limit values

Appropriate engineering

controls

No biological exposure limits noted for the ingredient(s).

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Hand protection Wear appropriate chemical resistant gloves.

Skin protection

Other Wear suitable protective clothing.

Respiratory protection If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an

air-supplied respirator.

Product name: BUG BUSTER INSECT KILLER #1451

Product #: 1000010168 Version #: 01 Issue date: 01-28-2015

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work

clothing and protective equipment to remove contaminants.

#### Physical and chemical properties

**Appearance** 

Physical state Gas. Form

> Aerosol. Color Not available. Not available.

Odor Not available. Odor threshold Not available. рΗ Not available. Melting point/freezing point

Initial boiling point and boiling

212 °F (100 °C) estimated

range

Flash point -156.0 °F (-104.4 °C) PROPELLANT estimated

Not available. Evaporation rate Not available. Flammability (solid, gas) Upper/lower flammability or explosive limits

Flammability limit - lower

1.5 % estimated

(%)

Flammability limit - upper

9.5 % estimated

(%)

Not available. Explosive limit - lower (%) Explosive limit - upper (%) Not available.

Vapor pressure 30.85 psig @70F estimated

Vapor density Not available. Relative density Not available.

Solubility(ies)

Solubility (water) Not available. Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature 421 °F (216.11 °C) estimated

Not available. Decomposition temperature Not available. Viscosity

Other information

0.888 estimated Specific gravity

# 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Material is stable under normal conditions. Chemical stability Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoid Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents. Nitrates. Fluorine. Chlorine. No hazardous decomposition products are known. Hazardous decomposition

products

#### 11. Toxicological information

Information on likely routes of exposure

Expected to be a low ingestion hazard. Ingestion

Inhalation No adverse effects due to inhalation are expected

Product name: BUG BUSTER INSECT KILLER #1451

Skin contact No adverse effects due to skin contact are expected.

Eve contact Direct contact with eyes may cause temporary irritation.

Symptoms related to the

Direct contact with eyes may cause temporary irritation.

physical, chemical and toxicological characteristics

Information on toxicological effects

Acute toxicity

Components Species Test Results

Butane (CAS 106-97-8)

Acute

Inhalation

LC50 Mouse 1237 mg/l, 120 Minutes

52 %, 120 Minutes

Rat 1355 mg/l

Piperonyl Butoxide (CAS 51-03-6)

Acute Dermal

LD50 > 2000 mg/kg

Inhalation

LC50 Rat > 5.2 mg/l, 4 Hours

Oral

LD50 Rat 5630 mg/kg

Propane (CAS 74-98-6)

Acute

Inhalation

LC50 Mouse 1237 mg/l, 120 Minutes

52 %, 120 Minutes

Rat 1355 mg/l

658 mg/l/4h

Prolonged skin contact may cause temporary irritation. Skin corrosion/irritation Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

Not available. Respiratory sensitization

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Risk of cancer cannot be excluded with prolonged exposure. Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Piperonyl Butoxide (CAS 51-03-6) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

This product is not expected to cause reproductive or developmental effects. Reproductive toxicity

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not available.

Chronic effects Prolonged exposure may cause chronic effects.

Product name: BUG BUSTER INSECT KILLER #1451

SDS US Product #: 1000010168 Version #: 01 Issue date: 01-28-2015

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

# 12. Ecological information

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

Components	Components Species		Test Results
Piperonyl Butoxide (C	AS 51-03-6)		
Aquatic			
Fish	LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)	0.0027 - 0.0043 mg/l, 96 hours
Pyrethrins (CAS 8003	-34-7)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia)	0.018 - 0.032 mg/l, 48 hours
Fish	LC50	Brown trout (Salmo trutta)	0.0165 - 0.0229 mg/l, 96 hours

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

No data is available on the degradability of this product. Persistence and degradability

Bioaccumulative potential No data available. Partition coefficient n-octanol / water (log Kow)

Butane 2.89 4.75 Piperonyl Butoxide 2.36 Propane

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents

under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

Dispose in accordance with all applicable regulations. Local disposal regulations

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Empty containers should be taken to an approved waste handling site for recycling or disposal. Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Do not re-use empty containers.

#### 14. Transport information

DOT

UN1950 **UN** number

UN proper shipping name

Aerosols, flammable, (each not exceeding 1 L capacity)

Transport hazard class(es)

Class 2.1 Subsidiary risk Label(s) 2.1

Packing group Not applicable.

Read safety instructions, SDS and emergency procedures before handling. Read safety Special precautions for user

instructions, SDS and emergency procedures before handling.

Special provisions N82 Packaging exceptions 306 Packaging non bulk None Packaging bulk None

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

Product name: BUG BUSTER INSECT KILLER #1451

#### IATA

UN1950 UN number

Aerosols, flammable UN proper shipping name

Transport hazard class(es)

2.1 Class Subsidiary risk 2.1 Label(s) Packing

group Environmental Not applicable.

hazards ERG Code Yes 10L

Read safety instructions, SDS and emergency procedures before handling. Read safety Special precautions for user

instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

Allowed.

UN1950

**AEROSOLS** 

Not applicable.

aircraft

Allowed. Cargo aircraft only LTD QTY Packaging Exceptions

**IMDG** 

**UN** number UN proper shipping name Transport hazard class(es)

Class 2.1 Subsidiary risk Label(s) Packing 2.1

group Environmental Not applicable.

hazards

Marine pollutant Yes F-D, S-U **EmS** 

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Read safety

instructions, SDS and emergency procedures before handling. LTD QTY

Packaging Exceptions Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

DOT



IATA; IMDG



Product name: BUG BUSTER INSECT KILLER #1451

Product #: 1000010168 Version #: 01 Issue date: 01-28-2015



General information IMDG Regulated Marine Pollutant.

## 15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

One or more components are not listed on TSCA.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Pyrethrins (CAS 8003-34-7)

Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Piperonyl Butoxide	51-03-6	1 - 2.5	

#### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Butane (CAS 106-97-8) Propane (CAS 74-98-6)

Safe Drinking Water Act

Not regulated.

(SDWA)

#### US state regulations

US. Massachusetts RTK - Substance List

Butane (CAS 106-97-8) Propane (CAS 74-98-6) Pyrethrins (CAS 8003-34-7)

US. New Jersey Worker and Community Right-to-Know Act

Butane (CAS 106-97-8)

Piperonyl Butoxide (CAS 51-03-6)

Propane (CAS 74-98-6)

Pyrethrins (CAS 8003-34-7)

US. Pennsylvania Worker and Community Right-to-Know Law

Butane (CAS 106-97-8)

Propane (CAS 74-98-6)

Product #: 1000010168 Version #: 01 Issue date: 01-28-2015

Pyrethrins (CAS 8003-34-7)

US. Rhode Island RTK

Butane (CAS 106-97-8)

Piperonyl Butoxide (CAS 51-03-6)

Propane (CAS 74-98-6) Pyrethrins (CAS 8003-34-7)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Inventory name

Diethanolamine (CAS 111-42-2) Listed: June 22, 2012

#### International Inventories

Country(s) or region

	<b>,</b>	3 (3 /
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No

New Zealand Inventory

Philippines Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

# 16. Other information, including date of preparation or last revision

Issue date 01-28-2015

Version # 01

Disclaimer The information provided in this Safety Data Sheet is correct to the best of our knowledge,

information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other

materials or in any process, unless specified in the text.

Product name: BUG BUSTER INSECT KILLER #1451

Product #: 1000010168 Version #: 01 Issue date: 01-28-2015

On inventory (yes/no)\*

Yes

Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).