SAFETY DATA SHEET (S.D.S.)

Revision Date: 06/03/2015

Section 1 Identification

Trade Name: BUGGER OFF
Product Identification: A482
Synonyms: DEET mixture

Product Use Description:
Insect repellent

General Info Phone: (800) 548-2080
Emergency Phone: (800) 255-3924

Supplier:
General Products & Supply, Inc.
101 Technology Lane
Export, PA 15632

Section 2 Hazards Identification

Classifications

Flammable Aerosols - Category 1
Gasses under pressure - Liquefied gas
Skin Sensitization - Category 1
Eye Irritation - Category 2
Specific Target Organ Toxicity (single exposure) - Category 3

Flammable Compressed Gas Irritant

Signal Word: Danger

Hazard Statements

Keep out of reach of children.
Read label and SDS before use.
Extremely flammable aerosol.
Contains gas under pressure; may explode if heated.
May cause drowsiness or dizziness.
Causes serious eye irritation.
May cause an allergic skin reaction.

Precautionary Statements

Prevention

Avoid breathing mist/spray.
Use only outdoors or in a well-ventilated area.
Keep away from heat, sparks, open flames and 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.
Contaminated work clothing must not be allowed out of the workplace.
Avoid overapplication of this product.
Do not spray directly onto face; spray on hands first and then apply sparingly and avoid eyes.
After returning indoors wash treated skin with soap and water.

Response

Wash contaminated clothing before reuse.
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.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a poison center or doctor if you feel unwell.

Storage

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
Store in a well-ventilated place.
Store locked up.

Disposal

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

Hazards Not Otherwise Specified

Not applicable

Section 3 Composition

Chemical Name	CAS #	Concentration % by Weight
Isobutane	75-28-5	>=5 <= 10
Isopropanol	67-63-0	>=35 <= 40
Propane	74-98-6	>=10 <= 20
n-Octyl bicycloheptenedicarboximide	113-48-4	=5.0
N,N-diethyl-m-toluamide	134-62-3	=25
Di-n-propyl isocichomeronate	136-45-8	=2.5

Section 4 First Aid

EMERGENCY OVERVIEW

DANGER. Extremely flammable. Contents under pressure. Keep away from heat and flame. Avoid breathing spray. Keep away from eyes.

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.

SKIN: Wash with plenty of soap and water after returning indoors. If skin irritation or rash occurs get medical attention. Take off contaminated clothing and wash it before reuse.

INHALATION: Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.

INGESTION: May be harmful if swallowed. Seek medical attention immediately. Do NOT induce vomiting.

Section 5 Fire Fighting Measures

Suitable fire extinguishing media:

Use water spray, fog or foam.

Specific hazards arising from the chemical:

Flammable aerosol. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. Runoff to sewer may create fire or explosion hazard.

Hazardous thermal decomposition products:

Carbon Dioxide, Carbon Monoxide

Specific fire-fighting methods:

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.

Special protective equipment for fire fighters:

Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in a positive pressure mode.

Section 6 Accidental Release Measures

Personal precautions:

Put on appropriate personal protective equipment (see section 8)

Environmental precautions and clean-up methods:

Stop all leaks. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Eliminate all ignition sources. Disperse vapors with water spray. Prevent runoff from entering drains, sewers, streams or other bodies of water. Absorb spill with inert material. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal.

Section 7 Handling and Storage

Do not use or store near heat, sparks or open flame. Exposure to temperatures above 120 F may cause bursting. Do not puncture or incinerate container. Store in a cool, dry place. Do not get in eyes. Intentional misuse by deliberately concentrating and inhaling may be harmful or fatal. Keep out of reach of children.

Section 8 Exposure Controls/Personal Protection

Isobutane	
ACGIH TLV	1000 ppm
Isopropanol	
ACGIH TLV	400 ppm
OSHA PEL	400 ppm
Propane	
ACGIH TLV	1000 ppm

Eye Protection: Wear safety glasses or goggles.

Skin Protection: To prevent repeated or prolonged contact, wear impervious gloves (made from rubber, nitrile or neoprene).

Respiratory Protection: Not required under typical use conditions. When respiratory protection is required use an organic vapor cartridge. A respiratory program that meets OSHA's 29 CFR 1910.34 & ANSI Z88.2requirements must be followed.

Engineering Controls: Good general ventilation required.

Section 9 Physical and Chemical Properties

Property	Value		
Appearance	CLEAR SPRAY/MIST	Auto Ignition Temp	NOT AVAILABLE
Boiling Point	NOT AVAILABLE	Color	COLORLESS
Decomposition Temperature	NOT AVAILABLE	Evaporation Rate	NOT AVAILABLE
Explosive Limit Ranges	NOT AVAILABLE	Explosive Properties	NOT AVAILABLE
Flash Point	50 F (liquid portion)	Melting/Freezing Point	NOT AVAILABLE
Odor	PLEASANT	Odor Threshold	NOT AVAILABLE
Other Information	VOC content (wt. %): 65	Oxidizing Properties	NOT AVAILABLE
Partition Coeff	NOT AVAILABLE	Physical State	LIQUID
Relative Density	0.9	Solubility (Water)	PARTIAL
Vapor Density	NOT AVAILABLE	Vapor Pressure	NOT AVAILABLE
Viscosity	NOT AVAILABLE	pH	NOT APPLICABLE

Section 10 Stability and Reactivity

Reactivity :	Under normal conditions of storage and use, hazardous reactions will not occur.
Chemical Stability :	Stable under normal conditions.
Incompatible Materials :	Acids, strong oxidizers.
Conditions to Avoid :	High temperatures, open flames, sparks, welding.
Decomposition Products:	CO, CO2

Vapors may ignite at temperatures exceeding flash point.

Section 11 Toxicological Information

Primary Route of Entry: Inhalation, eye and skin contact

Acute/Potential Health Effects:

EYES: Causes serious eye irritation. Symptoms include stinging, tearing and redness.

SKIN: May cause skin reactions in rare cases. Symptoms may include redness and drying of skin.

INHALATION: High vapor/aerosol concentrations (>1000 ppm) are irritating to the eyes and respiratory tract. May cause nose, throat and respiratory tract irritation, coughing and headache.

INGESTION: May be harmful if swallowed.

Chronic / Long Term Effects: May cause skin sensitization. Overexposure to this material through inhalation may cause central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness).

Target Organ Effects: Skin, central nervous system.

Reproductive/Developmental Information: None known.

Carcinogenic Information: This material is not listed as a carcinogen by IARC, NTP or OSHA.

Acute Toxicity Values:

DEET: Oral, rat: LD50 = 1892 mg/kg.

Section 12 Ecological Information

DEET: LC50 Fish: Rainbow trout - 97 mg/l, 96 hr; EC50 Daphnia -75 ppm, 48 hr.

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Section 13 Disposal Considerations

Waste must be disposed of in accordance with federal, state and local environmental control regulations. See label for further instructions.

Section 14 Transport Information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

UN number	1950
Proper shipping name	Aerosols, flammable
Class	2.1
Packing group	-

Section 15 Regulatory Information

If identified components of this product are **CERCLA** hazardous substances and/or listed under **Sections 302, 304, or 313 of Title III** of the Superfund Amendments and Reauthorization Act (SARA) of 1986 (also known as EPCRA, the Emergency Planning and Community Right-To-Know Act), or under **California Proposition 65** (Safe Drinking Water and Toxic Enforcement Act), they are listed above in Section 15 of this SDS.

If identified components of this product are listed under Section 313, this product contains toxic chemicals subject to the reporting requirements of Section 313. This information must be included in all SDS that are copied and distributed for this material.

Title III Section 311/312 Hazardous Categories - 40 CFR 370.2:

ACUTE (X) Chronic (X) Fire (X) Pressure (X) Reactive ( ) Not Applicable ( )

T.S.C.A. Status: All chemical substances found in this product comply with the Toxic Substances Control Act inventory reporting requirements.

RCRA Status: Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. If this product becomes hazardous waste it would be assigned RCRA Code(s)

D001

FIFRA information

This chemical 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 differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information

required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

Signal word: WARNING. Hazard statement: Causes substantial but temporary eye injury. Harmful if swallowed.

Section 16 Other Information

HMIS Ratings:

HEALTH	1
FLAMMABILITY	4
REACTIVITY	0
PERSONAL PROTECTION	A

Disclaimer: This Manufacturer believes that the information contained in the Safety Data Sheet is accurate. The suggested procedures are based on experience as of the date of the publication. They are not necessarily all inclusive nor fully adequate in every circumstance. Also, the suggestions should not be confused with, nor followed in violation of applicable laws, regulations, rules or insurance requirements.

Preparation/Revision Date: 6/3/15