MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product number	261-003
Product name	**Down & Out II Flying Insect Killer**
Effective date	03-Jan-2012
Company information	Claire Mfg. 1005 Westgate Addison, IL 60101 United States
Company phone	General Assistance 630-543-7600
Emergency telephone US	800-424-9300
Version #	09
Supersedes date	14-Dec-2010

2. Hazards Identification

Emergency overview	Aerosol. CONTENTS UNDER PRESSURE. Prolonged exposure may cause chronic effects.
Potential health effects	
Routes of exposure	Skin contact. Ingestion.
Eyes	Contact with eyes may cause irritation. Health injuries are not known or expected under normal use.
Skin	Harmful if absorbed through the skin. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
Inhalation	Intentional misuse by concentrating and inhaling the product can be harmful or fatal. Harmful if inhaled.
Ingestion	Exposure by ingestion of an aerosol is unlikely. Harmful if swallowed. Components of the product may be absorbed into the body by ingestion.
Target organs	Central nervous system.
Chronic effects	May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion and blurred vision) and/or damage. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
Signs and symptoms	Narcosis. Defatting of the skin. Skin irritation.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Propane	74-98-6	10 - 15
n-Butane	106-97-8	10 - 15
Paraffinic, Naphthenic Solvent	64742-47-8	5 - 8
Non-hazardous and other components below reportable levels		60 - 80

4. First Aid Measures

First aid procedures

Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Skin contact	Take off immediately all contaminated clothing. Wash off with warm water and soap. Get medical attention if irritation develops and persists.
Inhalation	If symptoms develop move victim to fresh air. Oxygen or artificial respiration if needed. Get medical attention if symptoms persist.
Ingestion	In the unlikely event of swallowing contact a physician or poison control center. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance.

Notes to physician Symptoms may be delayed.

5. Fire Fighting Measures

Flammable properties Vapor or gas may spread to distant ignition sources and flash back. Runoff to sewer may cause fire or explosion hazard.

Extinguishing media

Suitable extinguishing media Water fog. Foam. Dry chemical. Carbon dioxide (CO_2).

Protection of firefighters

Protective equipment and precautions for firefighters In case of fire and/or explosion do not breathe fumes. Containers should be cooled with water to prevent vapor pressure build up.

6. Accidental Release Measures

Methods for containment Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Stop the flow of material, if this is without risk.

Methods for cleaning up Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

7. Handling and Storage

Handling Pressurized container: Do not pierce or burn, even after use. Do not smoke while using or until sprayed surface is thoroughly dry. Do not use if spray button is missing or defective. Do not re-use empty containers. Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure.

Storage Contents under pressure. Do not puncture, incinerate or crush. The pressure in sealed containers can increase under the influence of heat. Do not handle or store near an open flame, heat or other sources of ignition. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Avoid exposure to long periods of sunlight. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs. Level 1 Aerosol (NFPA 30B)

8. Exposure Controls / Personal Protection

Exposure limits

ACGIH

Components	CAS #	TWA	STEL	Ceiling
Propane	74-98-6	1000 ppm	Not established	Not established
n-Butane	106-97-8	1000 ppm	Not established	Not established

OSHA

Components	CAS #	TWA	STEL	Ceiling
Propane	74-98-6	1000 ppm	Not established	Not established

Personal protective equipment

Eye / face protection Chemical goggles are recommended.

Skin protection Wear appropriate chemical resistant clothing. Chemical resistant gloves.

Respiratory protection When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

9. Physical & Chemical Properties

Appearance Compressed liquefied gas.

Boiling point 159.8 °F (71.1 °C) estimated

Color White.

Density 0.8186 g/cm3 estimated

Flammability (HOC) 13.5985 kJ/g estimated

Flash back No

Flash point	-156 °F (-104.4 °C)
Form	Aerosol.
Freezing point	Not available
Odor	Characteristic.
pH	5.5 - 7.5
Physical state	Liquid.
Pressure	70 - 85 psig @ 70F
Solubility	Partially
Specific gravity	0.8187 estimated

10. Chemical Stability & Reactivity Information

Conditions to avoid	Heat, flames and sparks.
Hazardous decomposition products	May include oxides of nitrogen.

11. Toxicological Information

Acute effects

Acute LD50: 28182 mg/kg estimated, Rat, Dermal
Acute LC50: 70 mg/l/4h estimated, Rat, Inhalation

Component analysis - LD50

Toxicology Data - Selected LD50s and LC50s

n-Butane	106-97-8	Inhalation LC50 Rat 658 mg/L 4 h
Paraffinic, Naphthenic Solvent	64742-47-8	Inhalation LC50 Rat >5.2 mg/L 4 h; Oral LD50 Rat >5000 mg/kg; Dermal LD50 Rabbit >2000 mg/kg
Propane	74-98-6	Inhalation LC50 Rat 658 mg/L 4 h

12. Ecological Information

Ecotoxicity

LC50 315 mg/L estimated, Fish, 96.00 Hours,
EC50 332 mg/L estimated, Daphnia, 48.00 Hours,
Contains a substance which causes risk of hazardous effects to the environment.

13. Disposal Considerations

Waste codes	D001: Waste Flammable material with a flash point <140 F
Disposal instructions	Contents under pressure. Dispose of this material and its container to hazardous or special waste collection point. Do not incinerate sealed containers. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose in accordance with all applicable regulations.

14. Transport Information

Department of Transportation (DOT) Requirements

Basic shipping requirements:

Proper shipping name	Aerosols
Hazard class	2.1
UN number	UN1950

Additional information:

Special provisions	153, N82
Packaging exceptions	LTD QTY
Packaging non bulk	None
Packaging bulk	None

IMDG

Basic shipping requirements:	
Proper shipping name	AEROSOLS
Hazard class	2.1
UN number	1950
Additional information:	
Packaging exceptions	LTD QTY
Item	5F
Labels required	None
Transport Category	2

IATA

Basic shipping requirements:	
Proper shipping name	Aerosols, flammable
Hazard class	2.1
UN number	1950
Additional information:	
Packaging exceptions	LTD QTY
Labels required	2.1

15. Regulatory Information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
CERCLA/SARA Hazardous Substances - Not applicable.
Pesticides are exempt from TSCA.

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical	Yes

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 302 extremely hazardous substance	No
Section 311 hazardous chemical	Yes
Hazard categories (311/312)	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of New and Existing Chemicals (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
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations

U.S. - Pennsylvania - RTK (Right to Know) List

n-Butane	106-97-8	Present
Paraffinic, Naphthenic Solvent	64742-47-8	Present
Propane	74-98-6	Present

16. Other Information

Further information

HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings	Health: 1 Flammability: 2 Physical hazard: 0
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MSDS sections updated	Transport Information: Product Shipping Name/Packing Group
Prepared by	Regulatory Compliance