



# 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.

## 5. Fire Fighting Measures

<b>Flammable properties</b>	Vapor or gas may spread to distant ignition sources and flash back. Runoff to sewer may cause fire or explosion hazard.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Water fog. Foam. Dry chemical. Carbon dioxide (CO2).
<b>Protection of firefighters</b>	
<b>Protective equipment and precautions for firefighters</b>	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

<b>Methods for containment</b>	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.
<b>Methods for cleaning up</b>	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

<b>Handling</b>	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.
<b>Storage</b>	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**

<b>Eye / face protection</b>	Chemical goggles are recommended.
<b>Skin protection</b>	Wear appropriate chemical resistant clothing. Chemical resistant gloves.
<b>Respiratory protection</b>	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

<b>Appearance</b>	Compressed liquefied gas.
<b>Boiling point</b>	159.8 °F (71.1 °C) estimated
<b>Color</b>	White.
<b>Density</b>	0.8186 g/cm <sup>3</sup> estimated
<b>Flammability (HOC)</b>	13.5985 kJ/g estimated
<b>Flash back</b>	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
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### 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.
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## 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
<b>Additional information:</b>	
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



<b>15. Regulatory Information</b>
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**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 (IECS)	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**

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

<b>16. Other Information</b>
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**Further information**

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

**HMIS® ratings**

Health: 1  
Flammability: 2  
Physical hazard: 0

**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. The information in the sheet was written based on the best knowledge and experience currently available. 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.

**MSDS sections updated**

Transport Information: Product Shipping Name/Packing Group

**Prepared by**

Regulatory Compliance