



Material Safety Data Sheet

Issuing date 11-Nov-2011

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Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product name Swisher Flying Insect Killer

Product code 41813
Recommended Use Aerosol- Insect Killer

EPA Registration Number 706-83-72802

Distributor

Swisher Hygiene Inc.
4725 Piedmont Row Drive,
Suite 400,
Charlotte, NC 28210

Chemical Emergency Phone Number 800-424-9300 (Chemtrec)

Company Emergency Phone Number 800-444-4138

2. HAZARDS IDENTIFICATION

Emergency Overview

Aerosol. CONTENTS UNDER PRESSURE
Prolonged exposure may cause chronic effects

Appearance Compressed liquefied gas. **Physical state** liquid. **Odor** Characteristic

Potential Health Effects

Acute toxicity

Eyes Contact with eyes may cause irritation Health injuries are not known or expected under normal use
Skin HARMFUL IF ABSORBED THROUGH 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. May cause delayed lung damage. Components of the product may be absorbed into the body by ingestion.

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

Aggravated Medical Conditions Narcosis. Defatting of the skin. Skin irritation.

Environmental hazard See Section 12 for additional Ecological Information

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Chemical Name	CAS-No	Weight %
N-Butane	106-97-8	10-15
paraffinic, naphthenic solvent	64742-47-8	5-8
Propane	74-98-6	10-15

4. FIRST AID MEASURES

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 or persists.
Skin contact	Immediately take off 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. Call a physician if symptoms develop or 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	FLAMMABLE			
Flash point	Flash point -156 °F -104.4 °C			
Suitable Extinguishing Media	Water spray or fog, foam, dry chemical, carbon dioxide if product is involved.			
Hazardous Combustion Products	May include Nitrous Oxide.			
Explosion Data				
Sensitivity to Mechanical Impact	none			
Sensitivity to Static Discharge	none			
Specific hazards arising from the chemical	Vapor or gas may spread to distant ignition sources and flash back. Runoff to sewer may cause fire or explosion hazard.			
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.			
NFPA	Health Hazard 0	Flammability 0	Stability 0	Physical and chemical hazards -
HMIS	Health Hazard 1	Flammability 2	Physical Hazard 0	Personal protection -

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Ensure adequate ventilation
Environmental precautions	Try to prevent the material from entering drains or water courses

Methods for Containment Prevent further leakage or spillage if safe to do so

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

Advice on safe handling 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.

Technical measures/Storage conditions 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 feedings. Level 1 Aerosol (NFPA 30B)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines Review Section 3 & 4 for Exposure Guidelines.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
N-Butane 106-97-8	TWA: 1000 ppm		TWA: 800 ppm TWA: 1900 mg/m ³
Propane 74-98-6	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1800 mg/m ³	IDLH: 2100 ppm TWA: 1000 ppm TWA: 1800 mg/m ³

Engineering Measures Showers
Eyewash stations
Ventilation systems

Personal Protective Equipment Institutional Environment

Eye/Face Protection Safety glasses are suggested when using this product in heavy use and institutional environments.

Consumer Environments Care should be taken to avoid Eye contact.

Skin and body protection Rubber gloves

Respiratory protection Unnecessary in open institutional environment.

Hygiene measures Practice good personal hygiene. Wash after handling.

Personal Protective Equipment Industrial Environment

Eye/Face Protection Splash-proof chemical goggles or face shield.

Skin and body protection Impervious rubber, alkali-proof protective gloves Impervious rubber boots & apron.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene measures Practice good personal hygiene. Wash after handling. Shower at end of work period
Practice good personal hygiene. Wash after handling

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	liquid		
Appearance	Compressed liquefied gas.	Odor	Characteristic
Color	No information available	Odor Threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks Methods</u>
pH	5.5-7.5	No information available
Melting/freezing point		No information available
Freezing Point		No information available
Boiling point/boiling range	71.1 °C 159.8 °F	No information available
Flash Point	-104.4 °C -156 °F	No information available
Evaporation rate		No information available
Flammability (solid, gas)		No information available
Flammability Limits in Air		No information available
upper flammability limit		
lower flammability limit		
Explosion Limits		
upper		
lower		
Vapor pressure	70-85	No information available
Vapor density	0.8186	No information available
Specific Gravity	0.8187	No information available
Water solubility	Partially	No information available
Solubility in other solvents		No information available
Partition coefficient: n-octanol/water		No information available
Autoignition temperature		No information available
Decomposition temperature		No information available
Viscosity, kinematic		No information available
Viscosity, dynamic		
Explosive properties	No information available	
Oxidizing Properties	No information available	

9.2 Other information

Softening point	No information available
Molecular Weight	No information available
VOC Content(%)	No information available
Density VALUE	No information available
Bulk Density VALUE	No information available

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
Incompatible products	None known based on information supplied
Conditions to Avoid	Heat, flames and sparks
Hazardous Decomposition Products	May include Nitrous Oxide.
Hazardous Polymerization	Hazardous polymerization does not occur

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product Information	Product does not present an acute toxicity hazard based on known or supplied information.
LD50 Dermal:	28182 mg/kg estimated, Rat
LC50 Inhalation:	70 mg/l/4h estimated, Rat

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
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N-Butane			658 mg/L (Rat) 4 h
paraffinic, naphthenic solvent	5000 mg/kg (Rat)	2000 mg/kg (Rabbit)	5.2 mg/L (Rat) 4 h
Propane			658 mg/L (Rat) 4 h

Chronic toxicity**Chronic toxicity**

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.

Target Organ Effects

None known.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components of this product have been identified as having potential environmental concerns. Contains a substance which causes risk of hazardous effects to the environment.

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
paraffinic, naphthenic solvent		2.2: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 2.4: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static 45: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through		4720: 96 h <i>Daphnia magna</i> mg/L LC50

Chemical Name	log Pow
N-Butane	2.89
Propane	2.3

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods

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.

Contaminated packaging

Do not re-use empty containers.

US EPA Waste Number

D001: Waste Flammable material with a flash point <140 F

14. TRANSPORT INFORMATION

Note

Consumer Commodity, ORM-D

Dot

Regulated

Proper shipping name

Consumer Commodity, ORM-D

TDG

Not regulated

MEX

Not regulated

ICAO	Not regulated
ICAO/IATA	Not regulated
IMDG / IMO	Not regulated
RID	Not regulated
ADR/RID	Not regulated
ADN	Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA	TSCA
DSL	Complies
NDSL	Complies
EINECS	Complies
ELINCS	-
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	no
Chronic Health Hazard	no
Fire Hazard	Yes
Sudden Release of Pressure Hazard	Yes
Reactive Hazard	no

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

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

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

n-butane - 10697-8 - present
 paraffinic, naphthenic solvent - 64742-47-8 - present
 propane - 74-98-6 - present

International Regulations

Chemical Name	Carcinogen Status	Exposure Limits
N-Butane		Mexico: TWA 800 ppm Mexico: TWA 1900 mg/m ³

Canada

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

16. OTHER INFORMATION

Prepared By	Swisher Hygiene Inc. 4725 Piedmont Row Drive Suite 400 Charlotte, NC 28210
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Revision Note	No information available
Disclaimer	

The information provided on this MSDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text

End of Material Safety Data Sheet