



Material Safety Data Sheet

Issuing date 10-Nov-2011

Revision Date 10-Nov-2011

Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product name Swisher Wasp & Hornet Killer

Product code 41815
Recommended Use Aerosol- Insect Killer

EPA Registration Number 706-109-72802

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. Will be easily ignited by heat, spark or flames. CONTENTS UNDER PRESSURE.

Appearance No information available **Physical state** liquid. **Odor** Solvent

Potential Health Effects

Acute toxicity

Eyes Moderately irritating to the eyes
Skin HARMFUL IF ABSORBED THROUGH SKIN
Inhalation Intentional misuse by concentrating and inhaling the product can be harmful or fatal.
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 delayed lung damage.

Aggravated Medical Conditions Discomfort in the chest. Corneal damage. Coughing. 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 % |
|----------------|----------|----------|
| Carbon Dioxide | 124-38-9 | 1-3 |

| | | |
|---------------------------|------------|-------|
| Isoparaffinic Hydrocarbon | 64742-47-8 | 80-90 |
| Isopropyl alcohol | 67-63-0 | 8-10 |

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 immediately. |
| Skin contact | Remove and isolate contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists. |
| Inhalation | Move to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention immediately. |
| Ingestion | If material is ingested, immediately contact a poison control center. Do not induce vomiting without advice from poison control center. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. |
| Notes to physician | Symptoms may be delayed |

5. FIRE-FIGHTING MEASURES

| | | | | |
|--|---|-----------------------|--------------------------|--|
| Flammable Properties | FLAMMABLE | | | |
| Flash point | Flash point 53 °F 11.7 °C | | | |
| Suitable Extinguishing Media | Water Fog, Foam, CO2 or Dry Chemical Water | | | |
| Explosion Data | | | | |
| Sensitivity to Mechanical Impact | none | | | |
| Sensitivity to Static Discharge | none | | | |
| Specific hazards arising from the chemical | Heat may cause the containers to explode. 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. Cool containers with flooding quantities of water until well after fire is out. Move containers from fire area if you can do so without risk. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. | | | |
| NFPA | Health Hazard 0 | Flammability 0 | Stability 0 | Physical and chemical hazards - |
| HMIS | Health Hazard 1 | Flammability 3 | 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 Stop leak if you can do so without risk. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). 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 Should not be released into the environment. 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 Pressurized container: Do not pierce or burn, even after use. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not smoke while using or until sprayed surface is thoroughly dry. Use only in area provided with appropriate exhaust ventilation. Do not use if spray button is missing or defective. Do not re-use empty containers. Avoid contact with skin. Avoid prolonged exposure.

Technical measures/Storage conditions Contents under pressure. Do not puncture, incinerate or crush. The pressure in sealed containers can increase under the influence of heat. Keep away from heat and sources of ignition. Avoid exposure to long periods of sunlight. Store in cool place. Keep in an area equipped with sprinklers. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs. Level 3 Aerosol.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines Review Section 3 & 4 for Exposure Guidelines.

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|------------------------------|----------------------------------|--|---|
| Carbon Dioxide 124-38-9 | STEL: 30000 ppm TWA: 5000 ppm | TWA: 5000 ppm TWA: 9000 mg/m ³ | IDLH: 40000 ppm TWA: 5000 ppm TWA: 9000 mg/m ³ STEL: 30000 ppm STEL: 54000 mg/m ³ |
| Isopropyl alcohol 67-63-0 | STEL: 400 ppm TWA: 200 ppm | TWA: 400 ppm TWA: 980 mg/m ³ | IDLH: 2000 ppm TWA: 400 ppm TWA: 980 mg/m ³ STEL: 500 ppm STEL: 1225 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 | Odor | Solvent |
| Appearance | No information available | Odor Threshold | No information available |
| Color | No information available | | |

| <u>Property</u> | <u>Values</u> | <u>Remarks</u> | <u>Methods</u> |
|---|--------------------------|--------------------------|----------------|
| pH | | No information available | |
| Melting/freezing point | | No information available | |
| Freezing Point | | No information available | |
| Boiling point/boiling range | 202.2 °C 395.6 °F | No information available | |
| Flash Point | 11.7 °C 53 °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 | 90-110 | No information available | |
| Vapor density | 0.8133 | No information available | |
| Specific Gravity | 0.8134 | 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 | Risk of ignition. |
| Incompatible products | None known based on information supplied |
| Conditions to Avoid | Heat, flames and sparks |
| Hazardous Decomposition Products | None known based on information supplied |
| 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.

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---------------------------|--------------------|--|-----------------------|
| Isoparaffinic Hydrocarbon | 5000 mg/kg (Rat) | 2000 mg/kg (Rabbit) | 5.2 mg/L (Rat) 4 h |
| Isopropyl alcohol | 4396 mg/kg (Rat) | 12800 mg/kg (Rat) 12870 mg/kg (Rabbit) | 72.6 mg/L (Rat) 4 h |

Chronic toxicity

Chronic toxicity May cause delayed lung damage.

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|-------------------|-------|--------------------|-----|------|
| Isopropyl alcohol | | Group 1 Group 3 | | X |

Target Organ Effects None known.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components of this product have been identified as having potential environmental concerns.

| Chemical Name | Toxicity to algae | Toxicity to fish | Toxicity to microorganisms | Toxicity to daphnia and other aquatic invertebrates |
|---------------------------|--|--|----------------------------|---|
| Isoparaffinic Hydrocarbon | | 2.2: 96 h Lepomis macrochirus mg/L LC50 static 2.4: 96 h Oncorhynchus mykiss mg/L LC50 static 45: 96 h Pimephales promelas mg/L LC50 flow-through | | 4720: 96 h Den-dronereides heteropoda mg/L LC50 |
| Isopropyl alcohol | 1000: 72 h Desmodesmus subspicatus mg/L EC50 1000: 96 h Desmodesmus subspicatus mg/L EC50 | 11130: 96 h Pimephales promelas mg/L LC50 static 9640: 96 h Pimephales promelas mg/L LC50 flow-through 1400000: 96 h Lepomis macrochirus µg/L LC50 | | 13299: 48 h Daphnia magna mg/L EC50 |

| Chemical Name | log Pow |
|-------------------|---------|
| Isopropyl alcohol | 0.05 |

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Consult authorities before disposal. Contents under pressure. Do not puncture, incinerate or crush. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.

Contaminated packaging Do not re-use empty containers

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

| Chemical Name | California Hazardous Waste Status |
|---------------|-----------------------------------|
| | |

| | |
|-------------------|-----------------|
| Isopropyl alcohol | Toxic Ignitable |
|-------------------|-----------------|

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

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Isopropyl alcohol 67-63-0 - 1.0 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)

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

Carbon dioxide 124-38-9 present
 Isopropyl alcohol 67-63-0 environmental hazard
 Synthetic isoparaffinic hydrocarbon 64742-47-28 present

International Regulations

| Chemical Name | Carcinogen Status | Exposure Limits |
|-------------------|-------------------|--|
| Carbon Dioxide | | Mexico: TWA 5000 ppm Mexico: TWA 9000 mg/m ³ Mexico: STEL 15000 ppm Mexico: STEL 27000 mg/m ³ |
| Isopropyl alcohol | | Mexico: TWA 400 ppm Mexico: TWA 980 mg/m ³ Mexico: STEL 500 ppm Mexico: STEL 1225 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.

| Chemical Name | NPRI |
|-------------------|------|
| Isopropyl alcohol | X |

16. OTHER INFORMATION

| | |
|----------------------|---|
| Prepared By | Swisher Hygiene Inc. 4725 Piedmont Row Drive Suite 400 Charlotte, NC 28210 |
| Issuing date | 10-Nov-2011 |
| Revision Date | 10-Nov-2011 |
| 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