# **Material Safety Data Sheet**

Stingray Wasp & Hornet Jet Spray

**SDS** #: 6594-A

**Revision Date:** 2013-01-09

Version 2



This MSDS has been prepared to meet U.S. OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Workplace Hazardous Materials Information System (WHMIS) requirements.

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name Stingray Wasp & Hornet Jet Spray

Recommended use Insecticide

Manufacturer Emergency telephone number

**FMC Corporation** 

Agricultural Products Group For leak, fire, spill or accident emergencies, call: 1735 Market Street +1 800 / 424 9300 (CHEMTREC - U.S.A.)

Philadelphia, PA 19103 +1 703 / 527 3887 (CHEMTREC - Collect - All Other Countries)

General Information: Medical Emergencies:

Phone: (215) 299-6000 (800) 331-3148 (U.S.A. & Canada)

E-Mail: msdsinfo@fmc.com +1 (651) 632-6793 (All Other Countries - Collect)

### 2. Hazards identification

Appearance Aerosolized liquid

Physical state aerosol

**Odor** No information available.

Physical or Chemical Hazards

Flammable properties Combustible liquid. Contents under pressure.

Potential health effects

Acute effects

**Eyes** Avoid contact with eyes. Contact with eyes may cause irritation. **Skin** Prolonged or repeated contact may dry skin and cause irritation.

**Inhalation** May be harmful if inhaled. Intentional misuse by deliberately concentrating and inhaling contents

may be harmful or fatal. May cause central nervous system depression with nausea, headache,

dizziness, vomiting, and incoordination.

**Ingestion** May be harmful if swallowed. Potential for aspiration if swallowed.

**Chronic effects** Repeated or prolonged exposure may cause central nervous system effects. Chronic exposure to

aromatic hydrocarbons may cause liver and kidney damage.

# 3. Composition/information on ingredients

#### **Hazardous ingredients**

MSDS #: 6594-A Revision Date: 2013-01-09

Version 2

Chemical Name	CAS-No	Weight %
Petroleum distillates, hydrotreated light	64742-47-8	>80
Carbon Dioxide	124-38-9	<5
Piperonyl butoxide	51-03-6	0.5
Permethrin	52645-53-1	0.25
Tetramethrin	7696-12-0	0.1

### 4. First aid measures

Eye contact Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses,

if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor

for further treatment advice.

Skin contact Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.

Call a poison control center or doctor for treatment advice.

Inhalation Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial

respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for

further treatment advice.

Ingestion Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a

poison control center or doctor. Do not give any liquid to the person. Do not induce vomiting or give

anything by mouth to an unconscious person.

Notes to physician This product is a pyrethroid. If large amounts have been ingested, the stomach and intestines should

be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so should be avoided. Contains petroleum distillate. Vomiting may cause aspiration

pneumonia.

### 5. Fire-fighting measures

Flammable properties Combustible liquid. Contents under pressure.

Flash Point Sensitivity to Mechanical Impact Sensitivity to Static Discharge Non-flammable per flame projection test. > 76.7 °C / > 170 °F

not applicable not applicable

**Suitable extinguishing media** Foam. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Water spray.

Specific hazards arising from the

chemical

Contents under pressure. Temperatures >54.4°C (>130°F) may cause bursting. Keep containers

cool to avoid bursting.

Protective equipment and precautions

for firefighters

Wear self-contained breathing apparatus and protective suit.

#### **NFPA**

Health Hazard2Flammability3Stability0Special Hazards-

### 6. Accidental release measures

**Personal precautions** Isolate and post spill area. Remove all sources of ignition. Ventilate the area. Wear suitable

protective clothing, gloves and eye/face protection. For personal protection see section 8. If ventilation is not possible wear full protection suit and chemical protective equipment.

**Environmental precautions** Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, streams,

ponds, and sewer drains.

MSDS #: 6594-A Revision Date: 2013-01-09

Version 2

Methods for cleaning up

Transfer damaged cartridges or cans to containers for later disposal. Clean and neutralize spill area,

tools and equipment by washing with bleach water and soap. Waste must be classified and labeled prior to recycling or disposal. Dispose of waste as indicated in Section 13. Rinsate may be disposed

at a waste water treatment plant.

Other For further clean-up instructions call FMC Emergency Hotline number listed in Section 1 "Product

and Company Identification" above.

# 7. Handling and storage

**Handling** Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.

Storage Keep in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources

of ignition. Keep out of reach of children and animals. Store in original container only.

### 8. Exposure controls/personal protection

### Exposure guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH	Mexico
Carbon Dioxide	STEL 30000 ppm	TWA: 5000 ppm TWA: 9000	IDLH: 40000 ppm	
124-38-9	TWA: 5000 ppm	mg/m³	TWA: 5000 ppm TWA: 9000	
			mg/m³	
			STEL: 30000 ppm STEL:	
			54000 mg/m <sup>3</sup>	
Chemical Name	British Columbia	Quebec	Ontario TWAEV	Alberta
Petroleum distillates,	TWA: 200 mg/m <sup>3</sup>			
hydrotreated light	Skin			
64742-47-8				
Carbon Dioxide	TWA: 5000 ppm	TWA: 5000 ppm TWA: 9000	TWA: 5000 ppm	TWA: 5000 ppm
124-38-9	STEL: 15000 ppm	mg/m³	STEL: 30000 ppm	TWA: 9000 mg/m <sup>3</sup>
		STEL: 30000 ppm STEL:		STEL: 30000 ppm
		54000 mg/m <sup>3</sup>		STEL: 54000 mg/m <sup>3</sup>

Occupational exposure controls

**Engineering measures** Apply technical measures to comply with the occupational exposure limits. When working in

confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and

wear the recommended equipment.

**Personal Protective Equipment** 

**General Information** If the product is used in mixtures, it is recommended that you contact the appropriate protective

equipment suppliers. These recommendations apply to the product as supplied.

**Respiratory protection** For dust, splash, mist or spray exposures wear a filtering mask.

**Eye/face protection** For dust, splash, mist or spray exposure, wear chemical protective goggles or a face-shield

**Skin and body protection** Wear long-sleeved shirt, long pants, socks, shoes, and gloves.

**Hand protection** Protective gloves

**Hygiene measures**Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to

eating, drinking, chewing gum or using tobacco. Shower or bathe at the end of working. Remove and wash contaminated clothing before re-use. Launder work clothing separately from regular household

laundry.

MSDS #: 6594-A Revision Date: 2013-01-09

Version 2

### 9. Physical and chemical properties

AppearanceAerosolized liquidColorNo information available.

Physical state aerosol

OdorNo information available.pHNo information available.Melting Point/RangeNo information available.Freezing pointNo information available.

Boiling Point/Range not applicable

**Flash Point** Non-flammable per flame projection test.  $> 76.7 \, ^{\circ}\text{C} / > 170 \, ^{\circ}\text{F}$ 

Evaporation rate not applicable
Autoignition Temperature not applicable

Flammable properties Combustible liquid. Contents under pressure.

Vapor pressure 4913 mm Hg

Vapor density No information available.

Specific Gravity 0.78

Water solubility No information available Percent volatile No information available.

Partition coefficient: not applicable

Viscosity No information available.

Oxidizing properties not applicable

# 10. Stability and reactivity

Stability Stable.

Conditions to avoid Heat, flames and sparks

Materials to avoid Strong oxidizing agents. Alkalis.

**Hazardous decomposition products** Carbon oxides.

Hazardous polymerization Hazardous polymerization does not occur.

### 11. Toxicological information

**Ingestion** May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and

diarrhea. Potential for aspiration if swallowed. Vomiting after ingestion of this product may cause aspiration of aromatic hydrocarbons into the lungs, which may result in fatal pulmonary edema. May be harmful if inhaled. Intentional misuse by deliberately concentrating and inhaling contents

may be harmful or fatal. May cause central nervous system depression with nausea, headache,

dizziness, vomiting, and incoordination.

### **Chronic Toxicity - Other Ingredient(s)**

Inhalation

**Chronic Toxicity** Repeated or prolonged exposure may cause central nervous system effects. Chronic exposure to

aromatic hydrocarbons may cause liver and kidney damage.

Carcinogenicity Contains no ingredient listed as a carcinogen Not recognized as carcinogenic by Research Agencies

(IARC, NTP, OSHA, ACGIH).

**Mutagenicity** Piperonyl butoxide ether may affect mammalian liver microsomal detoxification enzymes.

Permethrin: Did not show mutagenic effects in animal experiments.

### Stingray Wasp & Hornet Jet Spray

**MSDS #:** 6594-A **Revision Date:** 2013-01-09

Version 2

**Reproductive toxicity** Permethrin: No toxicity to reproduction.

Neurological Effects Permethrin: Clinical signs of neurotoxicity include altered motor activity and FOB effects, with no

signs of histopathology.

**Developmental Toxicity** Permethrin: Not teratogenic in animal studies.

**Target Organ Effects** Mice fed 0.3 or 0.9% piperonyl butoxide in the diet for 20 days had increased liver weight and other

signs of liver toxicity. Male rats given up to 2.4% of piperonyl butoxide in the diet for up to 12 weeks had clinical and histologic signs of liver damage; the highest dose group showed preneoplastic changes, including enlargement of hepatocyte nuclei and multinucleated cells. Kidney damage was also seen, Permethrin: Long-term feeding studies in animals resulted in increased liver and kidney weights, induction of the liver microsomal drug metabolizing enzyme system and histopathological

changes in the lungs and liver.

<u>Chronic Toxicity - Other Ingredient(s)</u> Chronic exposure to aromatic hydrocarbons may cause headaches, dizziness, loss of sensations or

feelings (such as numbness), and liver and kidney damage.

Chemical Name	ACGIH	IARC	NTP	OSHA	NIOSH - Target Organs
Carbon Dioxide					respiratory system,CVS

# 12. Ecological information

### **Ecotoxicity**

Piperonyl butoxide (51-03-6)

Active Ingredient(s)	Duration	Species	Value	Units:
Piperonyl Butoxide	LC50	Fish	3.94	ppm
	LD50	Bee	25	μg/bee
	LD50	Bobwhite quail	>2250	mg/kg
	LD50	Mallard duck	>5620	ppm
Permethrin (52645-53-1)	·	·		
Active Ingredient(s)	Duration	Species	Value	Units:
Permethrin	LC50	aquatic arthropods	0.02 - 7.6	μg/L
	LC50	Fish	0.05 - 315	μg/L
	LD50 Oral	Bobwhite quail	>5200	mg/kg
	LD50 Oral	Mallard duck	>5200	mg/kg
	LD50	Bee	0.026 - 0.17	μg/bee

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
Petroleum distillates,		LC50= 45 mg/L Pimephales		LC50 = 4720  mg/L  96  h
hydrotreated light		promelas 96 h LC50= 2.2 mg/L		_
		Lepomis macrochirus 96 h		
		LC50= 2.4 mg/L Oncorhynchus	8	
		mykiss 96 h		

#### **Environmental Fate**

Permethrin (52645-53-1)

1 erimeum (626 i 656 1)		
Active Ingredient(s)	Type of Test	Result
Permethrin	Bioconcentration factor (BCF) Bluefill sunfish (Lepomis macrochirus)	535
	Half-life in soil	~30 days
	log Pow	6.1

**MSDS** #: 6594-A **Revision Date:** 2013-01-09

Version 2

Mobility in soil	Not expected to reach groundwater
	Stable to hydrolysis over a wide range of pH values.

# 13. Disposal considerations

Waste disposal methods Improper disposal of excess pesticide, spray mixture, or rinsate is prohibited. If these wastes cannot

be disposed of by use according to label instructions, contact appropriate disposal authorities for

guidance.

Contaminated packaging Containers must be disposed of in accordance with local, state and federal regulations. Refer to the

product label for container disposal instructions.

# 14. Transport information

**DOT** USDOT is requiring that products formerly classified as "Consumer Commodity, ORM-D" transition

to "Limited Quantity" by 1/1/2014. During the transition period the 49CFR carton shipping marks may be Consumer Commodity (old) or Limited Quantity Diamond (new). Please prepare shipping

documents to match the carton mark.

Proper shipping name Consumer Commodity

Hazard class ORM-D

TDG

UN/ID NoUN1950Proper shipping nameAerosolsHazard Class2.1

ICAO/IATA

UN/ID No ID8000

**Proper shipping name** Consumer Commodity

Hazard Class 9

IMDG/IMO

UN/ID NoUN1950Proper shipping nameAerosolsHazard Class2.1

**MSDS** #: 6594-A **Revision Date:** 2013-01-09

Version 2

# 15. Regulatory information

### **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.

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values
			%
Piperonyl butoxide	51-03-6	0.5	1.0
Permethrin	52645-53-1	0.25	1.0
Tetramethrin	7696-12-0	0.1	1.0

**SARA 311/312 Hazard Categories** 

Ö	
Acute Health Hazard	yes
Chronic Health Hazard	yes
Fire Hazard	yes
Sudden Release of Pressure Hazard	yes
Reactive Hazard	no

#### **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.

### **International Regulations**

Mexico - Grade Moderate risk, Grade 2

Chemical Name	Mexico - Pollutant Release and Transfer Register - Reporting Emissions for Fabrication, Process or Use -Threshold Quantities	Pollutant Release and Transfer Register - Reporting Emissions - Threshold Quantities
Carbon Dioxide	100000	100000 kg/yr

### 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.

**WHMIS Hazard Class** 

B3 Combustible liquid



**MSDS** #: 6594-A **Revision Date:** 2013-01-09

Version 2

### 16. Other information

**Revision Date:** 2013-01-09

**Reason for revision:** (M)SDS sections updated.

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**End of Material Safety Data Sheet**