

**SAFETY DATA SHEET**  
**Stingray Wasp & Hornet Jet Spray**

**SDS # :** 6594-A  
**Revision date:** 2015-04-10  
**Format:** NA  
**Version** 1.01



**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product Identifier**

**Product Name** Stingray Wasp & Hornet Jet Spray

**Other means of identification**

**Product Code(s)** 6594-A

**Recommended use of the chemical and restrictions on use**

**Recommended Use:** Insecticide

**Restrictions on Use:** Use as recommended by the label

**Manufacturer Address**

FMC Corporation  
1735 Market Street  
Philadelphia, PA 19103  
(215) 299-6000 (General Information)  
msdsinfo@fmc.com (E-Mail General Information)

**Emergency telephone number**

For leak, fire, spill or accident emergencies, call:  
1 800 / 424 9300 (CHEMTREC - U.S.A.)  
1 703 / 527 3887 (CHEMTREC - Collect - All Other Countries)  
Medical Emergencies:  
1 800 / 331-3148 (PROSAR - U.S.A. & Canada)  
1 651 / 632-6793 (PROSAR - All Other Countries - Collect)

**2. HAZARDS IDENTIFICATION**

**Classification**

**OSHA Regulatory Status**

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


Skin sensitization	Category 1
Aspiration toxicity	Category 1
Flammable liquids	Category 4

**GHS Label elements, including precautionary statements**

**EMERGENCY OVERVIEW**

**Danger**

**Hazard Statements**  
 H304 - May be fatal if swallowed and enters airways  
 H317 - May cause an allergic skin reaction



**Precautionary Statements - Prevention**

- P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
- P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray
- P272 - Contaminated work clothing should not be allowed out of the workplace
- P302 + P352 - IF ON SKIN: Wash with plenty of water and soap
- P333 + P313 - If skin irritation or rash occurs: Get medical advice/ attention
- P363 - Wash contaminated clothing before reuse
- P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor
- P331 - Do NOT induce vomiting
- P370 + P378 - In case of fire: Use Foam. Carbon dioxide (CO2). Dry chemical. Water spray for extinction

**Precautionary Statements - Storage**

- P405 - Store locked up
- P403 + P235 - Store in a well-ventilated place. Keep cool

**Precautionary Statements - Disposal**

- P501 - Dispose of contents/ container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

No hazards not otherwise classified were identified.

**Other Information**

Very toxic to aquatic life with long lasting effects

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

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

Synonyms are provided in Section 1.

**4. FIRST AID MEASURES**

<b>Eye Contact</b>	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.
<b>Skin Contact</b>	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice.
<b>Inhalation</b>	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
<b>Ingestion</b>	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.
<b>Most important symptoms and effects, both acute and delayed</b>	Allergic skin reactions.
<b>Indication of immediate medical attention and special treatment needed, if necessary</b>	Treat symptomatically. Contains petroleum distillate. Vomiting may cause aspiration pneumonia.

**5. FIRE-FIGHTING MEASURES**

<b>Suitable Extinguishing Media</b>	Foam. Carbon dioxide (CO <sub>2</sub> ). Dry chemical. Water spray.
<b>Specific Hazards Arising from the Chemical</b>	Contents under pressure. Temperatures (>54.4°F) may cause bursting. Keep containers cool to avoid bursting. Combustible liquid. Contents under pressure.
<b>Explosion data</b>	
<b>Sensitivity to Mechanical Impact</b>	Yes.
<b>Sensitivity to Static Discharge</b>	Yes.
<b>Protective equipment and precautions for firefighters</b>	Wear self-contained breathing apparatus and protective suit.

**6. ACCIDENTAL RELEASE MEASURES**

<b>Personal Precautions</b>	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.
<b>Other</b>	For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above.
<b>Environmental Precautions</b>	See Section 12 for additional Ecological Information.
<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning up</b>	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.

**7. HANDLING AND STORAGE**

<b>Handling</b>	Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal. BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 130°F. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects.
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**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. Keep/store only in original container.

**Incompatible products** Strong oxidizing agents. Alkalis.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Chemical name	ACGIH TLV	OSHA PEL	NIOSH	Mexico
Carbon Dioxide 124-38-9	STEL 30000 ppm TWA: 5000 ppm	TWA: 5000 ppm TWA: 9000 mg/m <sup>3</sup>	IDLH: 40000 ppm TWA: 5000 ppm TWA: 9000 mg/m <sup>3</sup> STEL: 30000 ppm STEL: 54000 mg/m <sup>3</sup>	Mexico: TWA 5000 ppm Mexico: TWA 9000 mg/m <sup>3</sup> Mexico: STEL 15000 ppm Mexico: STEL 27000 mg/m <sup>3</sup>
Chemical name	British Columbia	Quebec	Ontario TWAEV	Alberta
Petroleum distillates, hydrotreated light 64742-47-8	TWA: 200 mg/m <sup>3</sup> Skin	-	-	-
Carbon Dioxide 124-38-9	TWA: 5000 ppm STEL: 15000 ppm	TWA: 5000 ppm TWA: 9000 mg/m <sup>3</sup> STEL: 30000 ppm STEL: 54000 mg/m <sup>3</sup>	TWA: 5000 ppm STEL: 30000 ppm	TWA: 5000 ppm TWA: 9000 mg/m <sup>3</sup> STEL: 30000 ppm STEL: 54000 mg/m <sup>3</sup>

### Appropriate engineering 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.

### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles.

**Skin and Body Protection** Wear long-sleeved shirt, long pants, socks, and shoes.

**Hand Protection** Protective gloves

**Respiratory Protection** In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

**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.

**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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

**Appearance** Aerosolized liquid  
**Physical State** Aerosol  
**Color** No information available

Odor	No information available
Odor threshold	No information available
pH	6-8
Melting point/freezing point	Not applicable
Boiling Point/Range	No information available
Flash point	Non-flammable per flame projection test. 76.7 °C / 170.06 °F
Evaporation Rate	No information available
Flammability (solid, gas)	No information available
Flammability Limit in Air	
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure	4913 mm Hg
Vapor density	No information available
Density	No information available
Specific gravity	0.78
Water solubility	Insoluble in water
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Viscosity, kinematic	No information available
Viscosity, dynamic	No information available
Explosive properties	No information available
Oxidizing properties	No information available
Molecular weight	No information available
Bulk density	No information available

**10. STABILITY AND REACTIVITY**

Reactivity	Not applicable
Chemical Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	None under normal processing.
Hazardous polymerization	Hazardous polymerization does not occur.
Conditions to avoid	Heat, flames and sparks
Incompatible materials	Strong oxidizing agents. Alkalis.
Hazardous Decomposition Products	Carbon oxides (COx).

**11. TOXICOLOGICAL INFORMATION**

Product Information

**Component Information**

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Piperonyl butoxide (51-03-6)	= 4570 mg/kg ( Rat )		
Tetramethrin (7696-12-0)			> 2500 mg/m <sup>3</sup> ( Rat ) 3 h
Petroleum distillates, hydrotreated light (64742-47-8)	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 5.2 mg/L ( Rat ) 4 h

Information on toxicological effects

Symptoms No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Chronic toxicity** Repeated or prolonged exposure may cause central nervous system effects. Animals given piperonyl butoxide in the diets showed clinical and histologic signs of liver toxicity. Kidney damage was also seen.

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

**Carcinogenicity** Permethrin: Not genotoxic in laboratory studies. Contains no ingredient listed as a carcinogen. Permethrin: Evidence of tumors in mice but is not considered relevant to humans.

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

**Reproductive toxicity** Permethrin: No toxicity to reproduction in animal studies.

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

**STOT - single exposure** Not classified.

**STOT - repeated exposure** Not classified.

**Target organ effects** Central Nervous System (CNS), Liver, kidney.

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

**Aspiration hazard** Potential for aspiration if swallowed. May be fatal if swallowed and enters airways.

Chemical name	ACGIH	IARC	NTP	OSHA
Piperonyl butoxide 51-03-6		Group 3		
Permethrin 52645-53-1		Group 3		

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

<b>Piperonyl butoxide (51-03-6)</b>				
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

<b>Permethrin (52645-53-1)</b>				
Active Ingredient(s)	Duration	Species	Value	Units
Permethrin	48 h EC50	Crustacea	0.001	mg/L
	72 h EC50	Algae	0.0125	mg/L
	96 h LC50	Fish	0.79	µg/L
	21 d NOEC	Crustacea	0.039	µg/L
	96 hr NOEC	Algae	0.9	µg/L
	21 d NOEC	Fish	0.3	µg/L

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Petroleum distillates, hydrotreated light 64742-47-8		96 h LC50: = 45 mg/L (Pimephales promelas) 96 h LC50: = 2.2 mg/L (Lepomis macrochirus) 96 h LC50: = 2.4 mg/L (Oncorhynchus mykiss)	

**Persistence and degradability** Permethrin: Moderately persistent. Does not readily hydrolyze. Not readily biodegradable.

**Bioaccumulation** Permethrin: The substance has a potential for bioconcentration.

**Mobility** Permethrin: Immobile; Not expected to reach groundwater.

**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 12/31/2020. 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**    The "Marine Pollutant" marking is only applicable when shipped by vessel, and is not applicable when shipped only by road or rail in Canada.

**UN/ID no**    UN1950  
**Proper Shipping Name**                      Aerosols  
**Hazard class**                                      2.2  
**Description**                                      UN1950, Aerosols, 2.2, Marine Pollutant

**ICAO/IATA**

**UN/ID no**    ID8000  
**Proper Shipping Name**                      Consumer commodity  
**Hazard class**                                      9

**IMDG/IMO**

**UN/ID no**    UN1950  
**Proper Shipping Name**                      Aerosols  
**Hazard class**                                      2  
**EmS No.**    F-D, S-U  
**Marine Pollutant**                              Permethrin  
**Description**                                      UN1950, Aerosols, 2, Marine Pollutant

**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 contains a chemical or 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	51-03-6	0.5	1.0
Permethrin - 52645-53-1	52645-53-1	0.25	1.0
Tetramethrin - 7696-12-0	7696-12-0	0.09999999	1.0

**SARA 311/312 Hazard Categories**

**Acute health hazard**                              Yes  
**Chronic health hazard**                          Yes  
**Fire hazard**    Yes  
**Sudden release of pressure hazard**          Yes  
**Reactive Hazard**                                  No

## Stingray Wasp & Hornet Jet Spray

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### 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

### FIFRA Information

*This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:*

#### CAUTION

*Causes moderate eye irritation. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals  
 This product is toxic to fish, birds and other wildlife.*

## US State Regulations

### California Proposition 65

This product does not contain any Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Piperonyl butoxide 51-03-6	X		
Permethrin 52645-53-1	X	X	
Tetramethrin 7696-12-0	X		
Carbon Dioxide 124-38-9	X	X	X

### International Inventories

Component	TSCA (United States)	DSL (Canada)	EINECS/ELI NCS (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Piperonyl butoxide 51-03-6 ( 0.5 )	X	X	X	X	X	X	X	X
Permethrin 52645-53-1 ( 0.25 )			X	X	X	X	X	X
Tetramethrin 7696-12-0 ( 0.1 )			X	X	X	X	X	X
Petroleum distillates, hydrotreated light 64742-47-8 ( >80 )	X	X	X	X	X	X	X	X
Carbon Dioxide 124-38-9 ( <5 )	X	X	X	X	X	X	X	X

Mexico - Grade

Moderate risk, Grade 2



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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

**WHMIS Hazard Class**  
 A - Compressed gases  
 B3 - Combustible liquid  
 D2B - Toxic materials



**16. OTHER INFORMATION**

NFPA	Health Hazards 2	Flammability 2	Instability 0	Special Hazards -
HMIS	Health Hazards 2	Flammability 2	Physical hazard 0	Personal Protection X

Revision date: 2015-04-10  
 Revision note (M)SDS sections updated

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**End of Safety Data Sheet**