

# MATERIAL SAFETY DATA SHEET

## TOPIA Insecticide



MSDS Ref. No.: 100000015903

Date Approved: 12/03/2009

Revision No.: 3

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This document has been prepared to meet the requirements of the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200 and other regulatory requirements.

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## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** TOPIA Insecticide

**ACTIVE INGREDIENT(S):** Geraniol 3, 7-dimethyl-tran-2,6-octadien-1-ol\*; Sodium Lauryl Sulfate\*\*; Cedarwood oil\*\*\*

**SYNONYMS:** Geraniol\*;  
Sodium lauryl sulfate (INCI name)\*\*;  
Cedar oil\*\*\*

### MANUFACTURER

FMC CORPORATION  
Agricultural Products Group  
1735 Market Street  
Philadelphia, PA 19103  
(215) 299-6000 (General Information)  
msdsinfo@fmc.com (Email - General Information)

### EMERGENCY TELEPHONE NUMBERS

(800) 331-3148 (Medical - U.S.A. & Canada)  
(651) 632-6793 (Medical - Collect - All Other Countries)

For leak, fire, spill, or accident emergencies, call:  
(800) 424-9300 (CHEMTREC - U.S.A. & Canada)  
(703) 527-3887 (CHEMTREC - Collect - All Other Countries)

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## 2. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW:

- Contents under pressure, do not expose to fire or extreme heat.
- Liquid aerosol with a slight odor
- May be irritating to the skin and eyes.
- Irritating to the upper respiratory tract at high airborne concentrations.

**POTENTIAL HEALTH EFFECTS:** Effects from overexposure may occur from inhaling, or coming into contact with skin or eyes. The components in this product may be irritating to the eyes, skin and respiratory tract.

**MEDICAL CONDITIONS AGGRAVATED:** None presently known.

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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Wt.%	EC No.	EC Class
Geraniol 3, 7-dimethyl-tran-2,6-octadien-1-ol	106-24-1	0.53	203-377-1	Not classified
Sodium Lauryl Sulfate	151-21-3	0.5	205-788-1	Not classified
Cedarwood oil	8000-27-9	0.02	616-769-6	Not classified
Carbon dioxide	124-38-9	<2	204-696-9	Not classified

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### 4. FIRST AID MEASURES

**EYES:** Flush with plenty of water. Get medical attention if irritation occurs and persists.

**SKIN:** Wash with plenty of soap and water. Get medical attention if irritation occurs and persists.

**INGESTION:** Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. If any discomfort persists, obtain medical attention.

**INHALATION:** Remove to fresh air. If breathing difficulty or discomfort occurs and persists, obtain medical attention.

**NOTES TO MEDICAL DOCTOR:** No significant health effects expected.

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### 5. FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Extinguish fire using agents suitable for nearby fires.

**FIRE / EXPLOSION HAZARDS:** Exposure to temperatures above 130°F may cause container to rupture.

**FIRE FIGHTING PROCEDURES:** Isolate area. Evacuate downwind. Fight fire from protected location or safe distance. Keep containers cool to avoid bursting. Wear full protective clothing and self-contained breathing apparatus.

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## 6. ACCIDENTAL RELEASE MEASURES

**RELEASE NOTES:** Isolate and post spill area. Wear protective clothing and personal protective equipment as prescribed in Section 8, "Exposure Controls/Personal Protection". Keep unprotected persons and animals out of the area.

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## 7. HANDLING AND STORAGE

**HANDLING AND STORAGE:** Store in a cool, dry, well-ventilated place. Do not use or store near heat, open flame or hot surfaces. Do not contaminate other products, water or food by storage or disposal.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE LIMITS

Chemical Name	ACGIH	OSHA	Supplier
Carbon dioxide	5,000 ppm (TWA) 30,000 ppm (STEL)	5,000 ppm (PEL) 9,000 mg/m <sup>3</sup> (PEL)	

**ENGINEERING CONTROLS:** Use in well ventilated area. Avoid contact.

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Use chemical type goggles if splashing is expected during handling of product.

**RESPIRATORY:** When used as directed, respiratory protection is not required.

**PROTECTIVE CLOTHING:** Normal work clothes.

**GLOVES:** Use impervious gloves to protect against skin contact.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>ODOR:</b>	Slight
<b>APPEARANCE:</b>	Liquid (Aerosol)
<b>BOILING POINT:</b>	Not available
<b>FAT SOLUBILITY:</b>	Not available
<b>FLASH POINT:</b>	> 98.88 °C (> 210 °F)
<b>PERCENT VOLATILE:</b>	Not available
<b>pH:</b>	Not available
<b>SPECIFIC GRAVITY:</b>	0.9993 @ 70 °C
<b>VAPOR DENSITY:</b>	Not available
<b>VAPOR PRESSURE:</b>	Not available

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## 10. STABILITY AND REACTIVITY

<b>CONDITIONS TO AVOID:</b>	Excess heat
<b>STABILITY:</b>	Stable
<b>POLYMERIZATION:</b>	Will not occur
<b>INCOMPATIBLE MATERIALS:</b>	None known
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	None

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## 11. TOXICOLOGICAL INFORMATION

**EYE EFFECTS:** No data available for the product. May be irritating to the eyes.

**SKIN EFFECTS:** No data available for the product. May be irritating to the skin.

**DERMAL LD<sub>50</sub>:** No data available for the product.

**ORAL LD<sub>50</sub>:** No data available for the product.  
Similar formulation: > 5,000 mg/kg (rat)

**INHALATION LC<sub>50</sub>:** No data available for the product

**SENSITIZATION:** Sodium lauryl sulfate: Skin sensitizer

**ACUTE EFFECTS FROM OVEREXPOSURE:** No data available for the product. The components in this product may be irritating to the eyes, skin and respiratory tract.

**CHRONIC EFFECTS FROM OVEREXPOSURE:** No data available for the product. Inhaling large concentrations of carbon dioxide causes rapid circulatory insufficiency leading to coma and death. Asphyxiation is likely to occur before the effects of carbon dioxide overexposure. Chronic harmful effects are not known from repeated inhalation of low concentrations.

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## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** No data available for the product. The components of this formulation are not expected to have significant environmental effects.

**ECOTOXICOLOGICAL INFORMATION:** No data available for the formulation. The components in this product are not expected to have significant toxicity to aquatic organisms.

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## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Do not puncture or incinerate container. Open dumping or burning of this material or its packaging is prohibited. Empty containers can be disposed of with ordinary household trash, as per label recommendations.

**EMPTY CONTAINER:** Do not puncture or incinerate container.

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## 14. TRANSPORT INFORMATION

### U.S. DEPARTMENT OF TRANSPORTATION (DOT)

<b>PACKAGING TYPE:</b>	18 oz. Container
<b>PROPER SHIPPING NAME:</b>	Consumer Commodity
<b>PRIMARY HAZARD CLASS / DIVISION:</b>	ORM-D

### INTERNATIONAL MARITIME DANGEROUS GOODS (IMDG)

<b>PACKAGING TYPE:</b>	18 oz. Container
<b>PROPER SHIPPING NAME:</b>	Aerosols
<b>PRIMARY HAZARD CLASS / DIVISION:</b>	2.2

<b>UN/NA NUMBER:</b>	UN 1950
<b>LABEL(S):</b>	NON-FLAMMABLE GAS
<b>PLACARD(S):</b>	NON-FLAMMABLE GAS
<b>MARKING(S):</b>	Aerosols
<b>ADDITIONAL INFORMATION:</b>	EmS Number: F-D, S-U

## **ADR - EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD**

<b>PROPER SHIPPING NAME:</b>	Aerosols, asphyxiant
<b>PRIMARY HAZARD CLASS / DIVISION:</b>	2
<b>CLASSIFICATION CODE:</b>	5A
<b>LABEL(S):</b>	2.2

## **INTERNATIONAL CIVIL AVIATION ORGANIZATION (ICAO) / INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA)**

<b>PACKAGING TYPE:</b>	18 oz. Container
<b>PROPER SHIPPING NAME:</b>	Consumer Commodity
<b>PRIMARY HAZARD CLASS / DIVISION:</b>	9
<b>UN/NA NUMBER:</b>	ID8000

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## **15. REGULATORY INFORMATION**

### **UNITED STATES**

#### **SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

**SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355, APPENDIX A):**  
Not listed

**SECTION 311 HAZARD CATEGORIES (40 CFR 370):**  
Immediate, Pressure

**SECTION 313 REPORTABLE INGREDIENTS (40 CFR 372):**

This product does not, to our knowledge, contain any toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372.

**CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT)****CERCLA DESIGNATION & REPORTABLE QUANTITIES (RQ) (40 CFR 302.4):**

Not listed

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## 16. OTHER INFORMATION

**NFPA**

Health	1
Flammability	0
Reactivity	0
Special	None

No special requirements

NFPA (National Fire Protection Association)

Degree of Hazard Code:

4 = Extreme

3 = High

2 = Moderate

1 = Slight

0 = Insignificant

**REVISION SUMMARY:**

This MSDS replaces Revision #2, dated November 6, 2009.

Changes in information are as follows:

Section 14 (Transport Information)

Section 16 (Other Information)

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