

# SAFETY DATA SHEET



Declare Insecticide  
SDS#: FO002179-1-A  
September 23, 2015

## DECLARE INSECTICIDE

### 1. PRODUCT AND COMPANY IDENTIFICATION:

**Product Identifier: Declare Insecticide**

**Product Use:** Insecticide

**Supplier's name and address:**

**FMC Corporation**

2929 Walnut Street  
Philadelphia, PA 19104  
(215) 299-6000 (General Information)  
msdsinfo@fmc.com (E-mail General Information)

**Emergency Telephone #:**

1-800-331-3148 (Medical Emergencies-PROSAR)  
1-800-424-9300 (24 Hr. Chemtrec Number)

**SDS Prepared by:** FMC Corporation SDS

**Preparation date:** September 23, 2015

### 2. HAZARDOUS IDENTIFICATIONS:

**GHS Signal Word:**

Warning

**Classification:**

Health	Environmental	Physical
Acute toxicity – Inhalation – Cat 4 Skin irritation – Cat 2 Sensitization – Skin – Cat 1 Specific Target Organ Toxicity – Repeated Exposure – Cat 2	Aquatic Toxicity – Acute 1 Aquatic Toxicity – Chronic 1	Not applicable

**GHS Pictogram:**



**Hazard Statements:**

Harmful if inhaled.  
Causes skin irritation.  
May causes allergic skin reaction.  
May cause damage to nervous system through  
prolonged or repeated exposure.  
Very toxic to aquatic life.  
Very toxic to aquatic life with long lasting effects.

**Precautionary Statements:**

**Prevention:**

Wash hands thoroughly after handling.  
Do not breath mist, vapors or spray.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves.  
Contaminated work clothing must not be allowed out  
of the workplace.  
Avoid release to the environment.

**Response:**

Get medical advice/attention if you feel unwell.  
If inhaled: Remove victim to fresh air and keep  
comfortable for breathing. Call poison control center  
or doctor if you feel unwell.  
If on skin: Wash with plenty of water. See label for  
specific treatment.  
If skin irritation or rash occurs: Get medical advice  
and attention.  
Take off contaminated clothing and wash it before  
reuse.  
Collect spillage.

**Storage:**

Not applicable.

**Disposal:**

Dispose of contents/container in accordance with  
label instructions.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS:

COMPONENT	CAS NUMBER	W/W%
Gamma-Cyhalothrin: Cyclo- propanecarboxylic acid, 3-(2- chloro-3,3,3-trifluoro-1-	076703-62-3	14.4

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propenyl)-2,2-dimethyl,cyano (3-phenoxyphenyl)		
Solvent naphtha (petroleum), heavy aromatic	64742-94-5	12
Alcohols, C11-15-secondary, ethoxylated	68131-40-8	1
Balance		82.9

**ATTENTION AND SPECIAL TREATMENT NEEDED:** If any sign or poisoning occurs, call a doctor, clinic or hospital immediately. Explain that the victim has been exposed to a pyrethroid insecticide. Describe their condition and the extent of exposure. Immediately remove the exposed person from the area where the product is present.

### 5. FIRE FIGHTING MEASURES:

**FLASH POINT:** >212°F (>100°C)

**METHOD USED:** PMCC

#### FLAMMABLE LIMITS

LFL: Not determined

UFL: Not determined

**EXTINGUISHING MEDIA:** Dry chemical or carbon dioxide for small fires, and water spray or foam for large fires.

**FIRE AND EXPLOSION HAZARDS:** Foam fire extinguishing system is preferred because uncontrolled water can spread possible contamination. Toxic irritating gases may be formed under fire conditions.

**FIRE-FIGHTING EQUIPMENT:** Use a positive-pressure self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply and full protective equipment.

### 6. ACCIDENTAL RELEASE MEASURES:

**ACTION TO TAKE FOR SPILLS:** It is recommended to have a plan for the avoidance of spills. If spillage does occur, it has to be removed and the area cleaned immediately according to a predetermined plan. It is recommended to clean area or equipment also if contamination is suspected. Empty, sealable vessels for the collection of spills should be available.

Use personal protection equipment when cleaning up spills. Depending on the magnitude of the spill this may mean wearing respirator, face mask or eye protection, chemical resistant clothing, gloves and boots.

Stop the source of the spill immediately if safe to do so. Keep unprotected persons away from the spill area. Avoid and reduce mist formation as much as possible.

If appropriate, surface water drains should be covered. Minor spills on the floor or other surface should be absorbed onto an absorptive material such as universal

### 4. FIRST AID:

**IF SWALLOWED:** 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 give anything by mouth to an unconscious person.

**IF INHALED:** Move person 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.

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**IF ON SKIN OR CLOTHING:** 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.

**NOTE TO PHYSICIAN:** Induced vomiting as first aid for this substance may result in increased risk of chemical pneumonia or pulmonary edema caused by aspiration of the hydrocarbon solvent. Vomiting should be induced only under professional supervision.

Skin exposure may also result in a sensation described as tingling, itching, burning, or prickly feeling. Onset may occur immediately to 4 hours after exposure and may last 2 to 30 hours, without damage. Wash exposed areas once with soap and water. Relief from the skin sensation may be obtained by applying an oil-based cream.

**MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:** Gamma-cyhalothrin can cause feelings of burning, tingling or numbness in exposed areas (paraesthesia).

### INDICATION OF ANY IMMEDIATE MEDICAL

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binder, attapulgite, bentonite or other absorbent clays. Collect the contaminated absorbent in suitable containers. Clean area with much water and industrial detergent. Absorb wash liquid with absorbent and transfer to suitable containers. The used containers should be properly closed and labeled.

Spills which soak into the ground should be dug up and transferred to suitable containers.

Spills in water should be contained as much as possible by isolation of the contaminated water. The contaminated water must be collected and removed for treatment or disposal.

**ENVIRONMENTAL PRECAUTIONS:** Contain the spill to prevent any further contamination of surface, soil or water. Wash waters must be prevented from entering surface water drains. Uncontrolled discharge into water courses must be alerted to the appropriate regulatory body.

### 7. HANDLING AND STORAGE:

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Keep out of reach of children. Do not swallow. Avoid contact with eyes, skin, and clothing. Avoid breathing vapors and spray mist. Handle concentrate in ventilated area. Wash thoroughly with soap and water after handling and before eating, chewing gum, using tobacco, using the toilet or smoking. Keep away from food, feedstuffs, and water supplies. Store in original container with the lid tightly closed. Avoid extreme of cold and hot temperatures. Prolonged storage can cause a slight settling, lightly shake container before use.

**PHYSICAL AND CHEMICAL HAZARDS:** Do not use or store near heat or open flame.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

These precautions are suggested for conditions where the potential for exposure exists. Emergency conditions may require additional precautions.

#### **EXPOSURE GUIDELINES:**

To our knowledge, no exposure limits have been established for gamma-cyhalothrin. An internal value of 0.02 mg/m<sup>3</sup> (8-hr LTEL-TW) is recommended by the manufacturer.

**ENGINEERING CONTROLS:** Provide general and/or local

exhaust ventilation to control airborne levels below the exposure guidelines.

#### **RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:**

**EYE/FACE PROTECTION:** Use chemical goggles.

**SKIN PROTECTION:** Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full-body suit will depend on task. Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse or dispose of properly. Items, which cannot be decontaminated, such as shoes, belts, and watchbands, should be removed and disposed of properly.

**HAND PROTECTION:** Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Viton, Polyethylene, Neoprene, Chlorinated polyethylene, Nitrile/butadiene rubber (Nitrile or NBR), Ethyl vinyl alcohol laminate (EVAL). Examples of acceptable glove barrier materials include: Butyl rubber, Natural rubber (latex), Avoid gloves made of Polyvinyl alcohol (PVA). **NOTICE:** The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove material, as well as the instructions/specifications provided by the glove supplier.

**RESPIRATORY PROTECTION:** Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required, use an approved air-purifying or positive-pressure supplied-air respirator depending on the potential airborne concentration. For emergency and other conditions where the exposure guideline may be exceeded, use an approved positive-pressure self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. The following should be effective types of air-purifying respirators: organic vapor cartridge with a particulate pre-filter.

**APPLICATORS AND ALL OTHER HANDLERS:** Refer to the product label for personal protective clothing and

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equipment.

### 9. PHYSICAL AND CHEMICAL PROPERTIES:

**APPEARANCE:** Off-white liquid  
**ODOR:** Aromatic  
**ODOR THRESHOLD:** Not established  
**pH:** Undiluted: 4.5-5.0  
**MELTING POINT/FREEZING POINT:** Below 0° C  
**INITIAL BOILING POINT AND BOILING RANGE:** Not applicable  
**FLASH POINT:** >212° F (>100° C) (PMCC)  
**EVAPORATION RATE:** Not determined  
**FLAMMABILITY:** Not applicable  
**UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:** Not determined  
**VAPOR PRESSURE:** 1.03 x 10<sup>-7</sup> Pa @ 20° C  
3.45 x 10<sup>-7</sup> Pa @ 25° C  
**VAPOR DENSITY:** Not determined  
**DENSITY:** 1.04 g/mL @ 20° C  
**SOLUBILITY(IES): GAMMA-CYHALOTHRIN @ 19° C:**  
Acetone >500 g/l  
1,2-Dichloromethane >500 g/l  
Methanol 138 g/l  
P-xylene >500 g/l  
Ethyl acetate >500 g/l  
Heptane 30.7 g/l  
n-Octanol 36.6 g/l  
Water 0.0021 mg/l @ 20° C  
**PARTITION COEFFICIENT (N-OCTANOL/WATER):**  
**GAMMA-CYHALOTHRIN:** LOG K<sub>OW</sub> = 5.2 @ 25° C  
**AUTO-IGNITION TEMPERATURE:** None below 400° C  
**DECOMPOSITION TEMPERATURE:** Not determined  
**VISCOSITY:** The product has high viscosity. It is a non-newtonian fluid; viscosity decreases with increasing shear rate. Shear rate 0.01 s<sup>-1</sup>: >3 x 10<sup>4</sup> mPa.s  
Shear rate 100 s<sup>-1</sup>: 80 x 120 mPa.s

### 10. STABILITY AND REACTIVITY:

**STABILITY:** Stable under normal use and storage conditions. Gamma-cyhalothrin decomposes on heating. Direct local heating such as electric heating or by steam.  
**INCOMPATIBILITY:** Oxidizing agents.  
**CONDITIONS TO AVOID:** Heating of the product will produce harmful and irritant vapors.

**HAZARDOUS DECOMPOSITION PRODUCTS:** The essential breakdown products are volatile, toxic, irritant and inflammable compounds such as nitrogen oxides, hydrogen chloride, hydrogen fluoride, hydrogen cyanide, carbon monoxide, carbon dioxide and various chlorinated and fluorinated organic compounds.

**HAZARDOUS POLYMERIZATION:** Not known to occur.

### 11. TOXICOLOGICAL INFORMATION:

**TARGET ORGANS:** Eyes, skin, respiratory system, central nervous system.

**ROUTES OF EXPOSURE:** Ingestion, skin, inhalation

**ACUTE TOXICITY:** The product is harmful by inhalation, but is not considered as harmful by ingestion or skin contact. The acute toxicity as measured on a similar product is:

Ingestion: LD<sub>50</sub>, oral, rat (male): 2250 mg/kg

Skin: LD<sub>50</sub>, dermal, rat: >5000 mg/kg

Inhalation: LC<sub>50</sub>, inhalation, rat (female): 2.54 mg/l/4 h

LC<sub>50</sub>, inhalation, rat (male): >2.72 mg/l/4 h

Skin irritation: Slightly irritating

Eye irritation: Mildly to moderately irritating

Skin sensitization: Sensitizing

### **SYMPTOMS AND EFFECTS, ACUTE AND DELAYED:**

On contact, gamma-cyhalothrin can cause feelings of burning, tingling or numbness in exposed areas (paraesthesia), which is harmless at low exposure, but can be quite painful, especially in the eye. The effect may result from splash, aerosol or transfer from contaminated gloves. The effect is transient, lasting up to 24 hours, but may in exceptional cases last longer. It may be considered as a warning that overexposure has occurred and that work practice should be reviewed.

**CARCINOGENICITY:** Chlorpyrifos is not classified as carcinogenic by IARC, ACGIH, OSHA or NTP.

### **TERATOGENICITY, MUTAGENICITY, OTHER**

**REPRODUCTIVE EFFECTS:** None observed in test animals.

### 12. ECOLOGICAL INFORMATION:

#### **ECOTOXICOLOGY:**

The product is extremely toxic to fish, aquatic

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invertebrates and insects. It is not considered as harmful to aquatic plants, soil micro- and macroorganisms and birds. The ecotoxicity of the product as measured on a similar product is:

- Fish, Rainbow trout (*Onchorhynchus mykiss*), 96-h LC<sub>50</sub>: 9.19 µg/l
- Invertebrates, Daphnids (*Daphnia magna*), 48-h LC<sub>50</sub>: 2.45 µg/l
- Algae, Green algae (*Selenastrum capricornutum*), 72-h IC<sub>50</sub>: 3.17 mg/l
- Earthworms (*Eisenia foetida foetida*), 14-day LC<sub>50</sub>: >1000 mg/kg dry soil
- Birds, Bobwhite quail (*Colinus virginianus*), LD<sub>50</sub>: >2000 mg/kg
- Insects, Bees (*Apis Mellifera*), 48-h LD<sub>50</sub>, contact: 0.03 µg/bee; 48-h LD<sub>50</sub>, oral: 1.26 µg/bee

**PERSISTENCE AND DEGRADABILITY:** Gamma-cyhalothrin is not readily biodegradable. The product contains minor amounts of not readily biodegradable components, which may not be degradable in waste water treatment plants.

**BIOACCUMULATION POTENTIAL:** Gamma-cyhalothrin has the potential to bioaccumulate, but in view of its high acute toxicity to aquatic organisms, bioaccumulation is not relevant.

**MOBILITY IN SOIL:** Gamma-cyhalothrin is not mobile in soil.

### 13. DISPOSAL CONSIDERATIONS:

**DISPOSAL METHOD:** If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the proper waste identification and disposal methods in compliance with applicable regulations. If the material as supplied becomes a waste, follow all applicable regional, national and local laws and regulations.

### 14. TRANSPORT INFORMATION:

U.S. DEPARTMENT OF TRANSPORTATION (DOT)

### INFORMATION:

For all shipments of less than 7142 pounds by all modes of transportation:

The substance is not regulated for transport.

For shipments of 7142 pounds or greater by all modes of transportation:

ENVIRONMENTALLY HAZARDOUS SUBSTANCES,  
LIQUID, N.O.S./(NAPHTHALENE)/9/UN3082/PG III/RQ  
(NAPHTHALENE)

### 15. REGULATORY INFORMATION:

NOTICE: The information herein is presented in good faith and believed to be accurate as of effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations.

### U.S. REGULATIONS

**FIFRA:** 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 on safety data sheets, and for workplace labels on non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

#### CAUTION

Causes moderate eye irritation.

Harmful if swallowed, inhaled or absorbed through skin.

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Avoid contact with eyes, skin, or clothing.

Avoid breathing spray mist.

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Remove contaminated clothing and wash clothing before reuse.

**SARA 313 INFORMATION:** This product contains the

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following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

CHEMICAL NAME	CAS NUMBER	CONCENTRATION
Naphthalene	000091-20-3	1.4%

**SARA HAZARD CATEGORY:** This product has been reviewed according to the EPA "Hazard Categories" promulgated under Section 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

An immediate health hazard  
A delayed health hazard

**CALIFORNIA PROPOSITION 65:** The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986: This product contains chemical(s) known to the State of California to cause cancer. **WARNING:** This product contains a chemical (naphthalene) which is known to the State of California to cause cancer. The chemical is Naphthalene (CAS 000091-20-3)

**TOXIC SUBSTANCES CONTROL ACT (TSCA):** All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

**STATE RIGHT-TO-KNOW:** The following product components are cited on certain state lists as mentioned. Non-listed components may be shown in composition section of the MSDS.

CHEMICAL NAME	CAS NUMBER	LIST
Naphthalene	000091-20-3	NJ2 NJ3 PA1 PA3

NJ2=New Jersey Environmental Hazardous Substance (present at greater than or equal to 1.0%)  
NJ3=New Jersey Workplace Hazardous Substance (present at greater than or equal to 1.0%)  
PA1=Pennsylvania Hazardous Substance (present at greater than or equal to 1.0%)  
PA3=Pennsylvania Environmental Hazardous Substance (present at greater than or equal to 1.0%)

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

**NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATINGS:**

Health	2
Flammability	2
Reactivity	0

**COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA, or SUPERFUND):** This product contains the following substance(s) listed as "Hazardous Substances" under CERCLA, which may require reporting of releases:

Chemical Name	CAS #	RQ	% in Product
Naphthalene	000091-20-3	100 lbs	1.4%

**RCRA CATEGORIZATION:**  
U.S. EPA Hazardous Waste # U165 (Naphthalene)

### 16. OTHER INFORMATION:

**SDS Preparation date:** September 23, 2015

**Revision date:** September 23, 2015

**Revision reason:** GHS Revision

Disclaimer

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End of Safety Data Sheet