

SAFETY DATA SHEET
CHARIOT™ INSECTICIDE

SDS # : 6675-1-A
Revision date: 2020-03-23
Format: NA
Version 1.04



1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name CHARIOT™ INSECTICIDE

Other means of identification

Product Code(s) 6675-1-A

Synonyms ZETA-CYPERMETHRIN: (S)-cyano(3-phenoxyphenyl)methyl 3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate (CAS name); mix of (S)-α-cyano-3-phenoxybenzyl (1RS,3RS;1RS,3SR)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate (IUPAC name);

, CHLORPYRIFOS: O,O-Diethyl O-3,5,6-trichloropyridin-2-yl phosphorothioate

Active Ingredient(s) Zeta-cypermethrin, Chlorpyrifos

Chemical Family Pyrethroid Pesticide, Organophosphate Pesticide

Alternate Commercial Name F9047-2 Insecticide

Recommended use of the chemical and restrictions on use

Recommended Use: Insecticide

Restrictions on Use: Use as recommended by the label.

Supplier Address

FMC Corporation
2929 Walnut Street
Philadelphia, PA 19104
(215) 299-6000 (General Information)
SDS-Info@fmc.com (E-Mail General Information)

Emergency telephone number

Medical Emergencies :
1 800 / 331-3148 (U.S.A. & Canada)
1 651 / 632-6793 (All Other Countries - Collect)

For leak, fire, spill or accident emergencies, call:
1 800 / 424-9300 (CHEMTREC - U.S.A.)
1 703 / 741-5970 (CHEMTREC - International)
1 703 / 527-3887 (CHEMTREC - Alternate)

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

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

Acute toxicity - Oral	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 3
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1B
Carcinogenicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2
Aspiration toxicity	Category 1
Flammable liquids	Category 3

GHS Label elements, including precautionary statements

EMERGENCY OVERVIEW

Danger

Hazard Statements

H301 - Toxic if swallowed
 H304 - May be fatal if swallowed and enters airways
 H315 - Causes skin irritation
 H317 - May cause an allergic skin reaction
 H319 - Causes serious eye irritation
 H331 - Toxic if inhaled
 H351 - Suspected of causing cancer
 H335 - May cause respiratory irritation
 H373 - May cause damage to organs through prolonged or repeated exposure
 H226 - Flammable liquid and vapor



Precautionary Statements - Prevention

P201 - Obtain special instructions before use
 P202 - Do not handle until all safety precautions have been read and understood
 P264 - Wash face, hands and any exposed skin thoroughly after handling
 P270 - Do not eat, drink or smoke when using this product
 P271 - Use only outdoors or in a well-ventilated area
 P272 - Contaminated work clothing should not be allowed out of the workplace
 P260 - Do not breathe dust/fume/gas/mist/vapors/spray
 P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking
 P233 - Keep container tightly closed
 P240 - Ground/bond container and receiving equipment
 P241 - Use explosion-proof electrical/ventilating/lighting equipment
 P242 - Use only non-sparking tools
 P243 - Take precautionary measures against static discharge
 P235 - Keep cool
 P280 - Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

P308 + P311 - If exposed or concerned: Call a POISON CENTER or doctor
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 P337 + P313 - If eye irritation persists: Get medical advice/ attention
 P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

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P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P363 - Wash contaminated clothing before reuse
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
P311 - Call a POISON CENTER or doctor
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor
P331 - Do NOT induce vomiting
P330 - Rinse mouth
P370 + P378 - In case of fire: Use Foam, Carbon dioxide (CO₂), Dry chemical, Soft stream or water fog for extinction

Precautionary Statements - Storage

P405 - Store locked up
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

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 Family

Pyrethroid Pesticide, Organophosphate Pesticide.

Chemical name	CAS-No	Weight %
Naphtha (petroleum), heavy aromatic	64742-94-5	40-50
Chlorpyrifos	2921-88-2	30.8
Zeta-cypermethrin (F2700)	52315-07-8	7.1
Naphthalene*	91-20-3	<5
Isobutyl alcohol	78-83-1	1-5

Synonyms are provided in Section 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 further treatment advice.

Inhalation

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.

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 give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Central nervous system effects.

Indication of immediate medical attention and special treatment needed, if necessary

Contains petroleum distillate Vomiting may cause aspiration pneumonia This product is a pyrethroid If large amounts have been ingested, the stomach and intestines should be evacuated Treatment is symptomatic and supportive This product contains a reversible cholinesterase inhibitor Atropine sulfate is antidotal Observe patient to ensure that these symptoms do not recur as atropinization wears off Support respiration as needed with removal of secretions, maintenance of a patent airway and, if necessary, artificial ventilation

Treatment is otherwise controlled removal of exposure followed by symptomatic and supportive care

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Small Fire	Dry chemical. Carbon dioxide (CO ₂).
Large Fire	Water spray. Foam.
Unsuitable extinguishing media	Avoid heavy hose streams.
Specific Hazards Arising from the Chemical	None known Combustible liquid
Hazardous Combustion Products	Carbon oxides (COx), Hydrogen cyanide, Hydrogen chloride, Sulfur oxides, Phosphorus oxides, Chlorine.
Explosion data	
Sensitivity to Mechanical Impact	No information available.
Sensitivity to Static Discharge	No information available.
Protective equipment and precautions for firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Isolate and post spill area. Remove all sources of ignition. Wear suitable protective clothing, gloves and eye/face protection. For personal protection see section 8.
Other	For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above.
Environmental Precautions	Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, streams, ponds, and sewer drains.
Methods for Containment	Dike to prevent runoff. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
Methods for cleaning up	Clean and neutralize spill area, tools and equipment by washing with water and soap. Absorb rinsate and add to the collected waste. Waste must be classified and labeled prior to recycling or disposal. Dispose of waste as indicated in Section 13.

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. Keep/store only in original container.
Packaging material	Must only be kept in original packaging.
Incompatible products	None known

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical name	ACGIH TLV	OSHA PEL	NIOSH	Mexico
Chlorpyrifos (2921-88-2)	TWA: 0.1 mg/m ³	-	TWA: 0.2 mg/m ³ STEL: 0.6 mg/m ³	Mexico: TWA 0.1 mg/m ³
Naphthalene* (91-20-3)	TWA: 10 ppm	TWA: 10 ppm TWA: 50 mg/m ³	IDLH: 250 ppm TWA: 10 ppm TWA: 50 mg/m ³ STEL: 15 ppm STEL: 75 mg/m ³	Mexico: TWA 10 ppm Mexico: TWA 50 mg/m ³ Mexico: STEL 15 ppm
Chemical name	British Columbia	Quebec	Ontario TWA/EV	Alberta
Chlorpyrifos (2921-88-2)	TWA: 0.1 mg/m ³ Skin	TWA: 0.2 mg/m ³ Skin	TWA: 0.1 mg/m ³ inhalable fraction and vapor Skin	TWA: 0.1 mg/m ³ Skin
Naphthalene* (91-20-3)	TWA: 10 ppm Skin	TWA: 10 ppm TWA: 52 mg/m ³ STEL: 15 ppm STEL: 79 mg/m ³	TWA: 10 ppm Skin	TWA: 10 ppm TWA: 52 mg/m ³ STEL: 15 ppm STEL: 79 mg/m ³ Skin

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

For dust, splash, mist or spray exposure, wear chemical protective goggles.

Skin and Body Protection

Coveralls worn over long-sleeved shirt and long pants with socks. Wear chemical-resistant footwear, gloves and headgear.

Hand Protection

Use protective gloves made of chemical materials such as nitrile or neoprene. Wash the outside of gloves with soap and water before reuse. Check regularly for leaks.

Respiratory Protection

For dust, splash, mist or spray exposures wear a filtering facepiece respirator (N95, R95, or P95) which is approved for pesticides (U.S. NIOSH/MSHA, EU CEN or comparable certification organization).

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	Amber Liquid
Physical State	Liquid
Color	Amber
Odor	Petroleum solvent
Odor threshold	No information available
pH	4.3
Melting point/freezing point	Not applicable
Boiling Point/Range	No information available
Flash point	58 °C / 136 °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	No information available
Vapor density	No information available
Relative density	8.94 lb/gal
Specific gravity	No information available
Water solubility	No information available
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Viscosity, kinematic	15.9 mm ² /s @ 44.5°C (calculated)
Viscosity, dynamic	22.4 mPa s @ 23.5 °C; 17 mPa s @ 44.5 °C
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	None under normal use conditions
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	None known.
Hazardous Decomposition Products	Carbon oxides (COx), Hydrogen cyanide, Hydrogen chloride, Sulfur oxides, Phosphorous oxides, Chlorine.

11. TOXICOLOGICAL INFORMATION

Product Information

LD50 Oral	98.11 mg/kg (rat)
LD50 Dermal	> 5,000 mg/kg (rabbit)
LC50 Inhalation (dust)	> 0.52 mg/L (4-hr) (rat)
Serious eye damage/eye irritation	Severely irritating (rabbit).
Skin corrosion/irritation	Severely irritating (rabbit).
Sensitization	May cause sensitization by skin contact.

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation (vapor)
Naphtha (petroleum), heavy aromatic (64742-94-5)	300-2000 mg/kg	> 2 mL/kg (Nyúl)	>5,2 mg/L
Chlorpyrifos (2921-88-2)	= 135 mg/kg (Rat) = 82 mg/kg (Rat)	= 2 g/kg (Rabbit) = 202 mg/kg (Rat) > 5000 mg/kg (Rabbit)	> 200 mg/m ³ (Rat) 4 h
Naphthalene* (91-20-3)	= 1110 mg/kg (Rat) = 490 mg/kg (Rat)	= 1120 mg/kg (Rabbit) > 20 g/kg (Rabbit)	> 340 mg/m ³ (Rat) 1 h
Isobutyl alcohol (78-83-1)	2500 mg/kg (Rat)	2500 mg/kg (Rat)	

Information on toxicological effects

Symptoms	Large doses of zeta-cypermethrin, ingested by laboratory animals, may produce signs of
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toxicity including tremors, incoordination, convulsions, staggered gait, and oral discharge.

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

Chronic toxicity	Zeta-cypermethrin: Long-term exposure caused neurotoxicity (body tremors, decreased motor activity), decreased body weight and increased liver weight.
Mutagenicity	Chlorpyrifos, Zeta-cypermethrin: Not genotoxic in laboratory studies
Carcinogenicity	Chlorpyrifos: No evidence of carcinogenicity from animal studies. Cypermethrin caused an increase in benign lung tumors in mice, but not in rats. EPA has classified cypermethrin as a possible human carcinogen based on this information, but does not regulate based on its low cancer risk. There was no evidence of carcinogenic activity of naphthalene in male mice, but there was some evidence of carcinogenic activity in female mice and clear evidence of carcinogenic activity in male and female rats in 2-year inhalation studies conducted by the National Toxicology Program (NTP).
Neurological effects	Chlorpyrifos: Chronic exposure to animals has caused decreased cholinesterase activity (erythrocyte, plasma, and/or brain). Zeta-cypermethrin: Causes neurotoxicity (tremors and decreased motor activity) following acute, subchronic or chronic exposure.
Reproductive toxicity	Chlorpyrifos, Zeta-cypermethrin: No toxicity to reproduction in animal studies.
Developmental toxicity	Chlorpyrifos, Zeta-cypermethrin: Not teratogenic in animal studies.
STOT - single exposure	May cause respiratory irritation. See listed target organs below.
STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure. See listed target organs below.
Target organ effects Neurological effects	Zeta-cypermethrin: Central Nervous System (CNS), Chlorpyrifos: Chronic exposure to animals has caused decreased cholinesterase activity (erythrocyte, plasma, and/or brain). Zeta-cypermethrin: Causes neurotoxicity (tremors and decreased motor activity) following acute, subchronic or chronic exposure.
Aspiration hazard	Potential for aspiration if swallowed.

Chemical name	ACGIH	IARC	NTP	OSHA
Naphthalene* 91-20-3	A3	Group 2B	Reasonably Anticipated	X

Legend:

ACGIH (American Conference of Governmental Industrial Hygienists)
A3 - *Animal Carcinogen*
IARC (International Agency for Research on Cancer)
Group 2B - *Possibly Carcinogenic to Humans*
NTP (National Toxicology Program)
Reasonably Anticipated - *Reasonably Anticipated to be a Human Carcinogen*
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
X - *Present*

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chlorpyrifos (2921-88-2)				
Active Ingredient(s)	Duration	Species	Value	Units
Chlorpyrifos	LD50 acute oral	Honey bees	0.36	µg/bee
	LD50 topical	Honey bees	0.070	µg/bee

Zeta-cypermethrin (F2700) (52315-07-8)				
Active Ingredient(s)	Duration	Species	Value	Units
Zeta-cypermethrin	48 h EC50	Crustacea	0.14	µg/L
	96 h LC50	Fish	0.69	µg/L

	72 h EC50	Algae	>1	mg/L
	21 d NOEC	Crustacea	0.01	µg/L
	21 d NOEC	Fish	0.015	µg/L

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Castor oil, ethoxylated 61791-12-6		96 h LC50: > 45 mg/L (Danio rerio) static	
Acetic Acid 64-19-7		96 h LC50: = 75 mg/L (Lepomis macrochirus) static 96 h LC50: = 79 mg/L (Pimephales promelas) static	24 h EC50: = 47 mg/L (Daphnia magna) 48 h EC50: = 65 mg/L (Daphnia magna) Static
Naphtha (petroleum), heavy aromatic 64742-94-5	72 h EC50: = 2,5 mg/L (Skeletonema costatum)	96 h LC50: = 1740 mg/L (Lepomis macrochirus) static 96 h LC50: = 19 mg/L (Pimephales promelas) static 96 h LC50: = 2,34 mg/L (Oncorhynchus mykiss) 96 h LC50: = 41 mg/L (Pimephales promelas) 96 h LC50: = 45 mg/L (Pimephales promelas) flow-through	48 h EC50: = 0,95 mg/L (Daphnia magna)
Phosphoric acid 7664-38-2		96 h LC50: 3 - 3.5 mg/L (Gambusia affinis)	12 h EC50: = 4.6 mg/L (Daphnia magna)
Naphthalene* 91-20-3	72 h EC50: = 0.4 mg/L (Skeletonema costatum)	96 h LC50: 0.91 - 2.82 mg/L (Oncorhynchus mykiss) static 96 h LC50: 5.74 - 6.44 mg/L (Pimephales promelas) flow-through 96 h LC50: = 1.6 mg/L (Oncorhynchus mykiss) flow-through 96 h LC50: = 1.99 mg/L (Pimephales promelas) static 96 h LC50: = 31.0265 mg/L (Lepomis macrochirus) static	48 h EC50: 1.09 - 3.4 mg/L (Daphnia magna) Static 48 h EC50: = 1.96 mg/L (Daphnia magna) Flow through 48 h LC50: = 2.16 mg/L (Daphnia magna)
1,2,4-Trimethylbenzene 95-63-6		96 h LC50: 7.19 - 8.28 mg/L (Pimephales promelas) flow-through	48 h EC50: = 6.14 mg/L (Daphnia magna)
Propylene Carbonate S 108-32-7	72 h EC50: > 500 mg/L (Desmodesmus subspicatus)	96 h LC50: = 5300 mg/L (Leuciscus idus) static 96 h LC50: > 1000 mg/L (Cyprinus carpio) semi-static	48 h EC50: > 500 mg/L (Daphnia magna)
Chlorpyrifos 2921-88-2		96 h LC50: 0.002 - 0.032 mg/L (Oncorhynchus mykiss) flow-through 96 h LC50: 0.0047 - 0.0075 mg/L (Lepomis macrochirus) flow-through 96 h LC50: 0.11 - 0.13 mg/L (Pimephales promelas) flow-through 96 h LC50: < 0.001 mg/L (Oncorhynchus mykiss) static 96 h LC50: = 0.0013 mg/L (Lepomis macrochirus) static 96 h LC50: = 0.0026 mg/L (Lepomis macrochirus) 96 h LC50: = 0.00717 mg/L (Poecilia reticulata) 96 h LC50: = 0.00717 mg/L (Poecilia reticulata) semi-static 96 h LC50: = 0.008 mg/L (Cyprinus carpio) static 96 h LC50: = 0.011 mg/L (Oncorhynchus mykiss)	48 h EC50: 0.00009 - 0.00012 mg/L (Daphnia magna) Flow through 48 h EC50: 0.00012 - 0.00023 mg/L (Daphnia magna) Static

Persistence and degradability

Chlorpyrifos: Does not readily hydrolyze. Zeta-cypermethrin: Non-persistent. Readily hydrolyzed. Not readily biodegradable.

Bioaccumulation

Chlorpyrifos: The substance has a potential for bioconcentration. Zeta-cypermethrin: The substance does not have a potential for bioconcentration.

Mobility

Chlorpyrifos, Zeta-cypermethrin: 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. Proper personal protective equipment, as described in

Sections 7 and 8, must be worn while handling materials for waste disposal.

Contaminated containers and packages

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

UN/ID no	UN3017
Proper Shipping Name	Organophosphorous pesticides, liquid, toxic, flammable
Hazard class	6.1
Subsidiary class	3
Packing Group	III
Marine Pollutant	Chlorpyrifos, Zeta-cypermethrin.
Description	UN3017, Organophosphorus pesticides, liquid, toxic, flammable (Chlorpyrifos), 6.1 (3), PG III, RQ

TDG

UN/ID no	UN3017
Proper Shipping Name	Organophosphorus pesticides, liquid, toxic, flammable
Hazard class	6.1
Subsidiary class	3
Packing Group	III
Marine Pollutant	Chlorpyrifos, Zeta-cypermethrin.
Description	UN3017, Organophosphorus pesticides, liquid, toxic, flammable (Chlorpyrifos, Isobutyl alcohol), 6.1 (3), PG III, Marine Pollutant, RQ

ICAO/IATA

UN/ID no	UN3017
Proper Shipping Name	Organophosphorous pesticides, liquid, toxic, flammable
Hazard class	6.1
Subsidiary Hazard Class	3
Packing Group	III
Description	UN3017, Organophosphorus pesticides, liquid, toxic, flammable (Chlorpyrifos, Isobutyl alcohol), 6.1 (3), PG III, Marine Pollutant, RQ

IMDG/IMO

UN/ID no	UN3017
Proper Shipping Name	Organophosphorous pesticides, liquid, toxic, flammable
Hazard class	6.1
Subsidiary Hazard Class	3
Packing Group	III
Marine Pollutant	Zeta-cypermethrin, Chlorpyrifos
Description	UN3017, Organophosphorus pesticides, liquid, toxic, flammable (Chlorpyrifos, Isobutyl alcohol), 6.1 (3), PG III, Marine Pollutant, RQ

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 %
Naphthalene* - 91-20-3	91-20-3	<5	0.1

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SARA 311/312 Hazard Categories

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

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Acetic Acid 64-19-7	5000 lb			X
Phosphoric acid 7664-38-2	5000 lb			X
Naphthalene* 91-20-3	100 lb	X	X	X
Chlorpyrifos 2921-88-2	1 lb			X

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Acetic Acid 64-19-7	5000 lb 2270 kg	
Phosphoric acid 7664-38-2	5000 lb 2270 kg	
Naphthalene* 91-20-3	100 lb 45.4 kg	
Chlorpyrifos 2921-88-2	1 lb 0.454 kg	

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:

Warning

May be fatal if swallowed. Causes substantial but temporary eye injury. Causes skin irritation. Harmful if inhaled.

This pesticide is extremely toxic to fish, aquatic invertebrates, oysters and shrimp and toxic to small mammals and birds.

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical name	California Prop. 65
Chlorpyrifos - 2921-88-2	Developmental
Naphthalene* - 91-20-3	Carcinogen

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Chlorpyrifos	X	X	X

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2921-88-2			
Zeta-cypermethrin (F2700) 52315-07-8		X	
Naphthalene* 91-20-3	X	X	X

International Inventories

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELINCS (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Naphtha (petroleum), heavy aromatic 64742-94-5	X	X	X		X	X	X	X
Chlorpyrifos 2921-88-2		X	X	X	X	X	X	X
Zeta-cypermethrin (F2700) 52315-07-8			X		X	X	X	X
Naphthalene* 91-20-3	X	X	X	X	X	X	X	X

CANADA

This Safety Data Sheet is for a pesticide product registered by the Pest Management Regulatory Agency (PMRA), and is therefore also subject to certain requirements under Canadian pesticide laws, including the Pest Control Products Act (PCPA). These requirements differ from the classification criteria and hazard information required by the Hazardous Product Regulations (HPR) and WHMIS 2015 for safety data sheets, and for workplace labels of non-pesticide chemicals. The following information is determined by PMRA.

The approved pest control product label (the label), under the Pest Control Products Act, needs to be followed at all times and in cases where there are any discrepancies between the approved label and an SDS for that product it is the label information that prevails.

16. OTHER INFORMATION

NFPA	Health Hazards 3	Flammability 2	Instability 0	Special Hazards -
HMIS	Health Hazards 3*	Flammability 2	Physical hazard 0	Personal Protection X

*Indicates a chronic health hazard.

NFPA/HMIS Ratings Legend

Severe = 4; Serious = 3; Moderate = 2; Slight = 1; Minimal = 0

Revision date: 2020-03-23
Reason for revision: SDS sections updated

Disclaimer

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Prepared By:

FMC Corporation

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End of Safety Data Sheet