

SAFETY DATA SHEET Zeta 15 UL

SDS #: FO003466-A

Revision date: 2021-10-27 Format: AP

Version 2

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name Zeta 15 UL

Product Code(s) FO003466-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)

Active Ingredient(s) Zeta-cypermethrin

Chemical Family Pyrethroid Pesticide

Recommended Use: Insecticide

Restrictions on Use: Use as recommended by the label.

Manufacturer/Supplier

FMC Corporation 2929 Walnut Street Philadelphia, PA 19104

(215) 299-6000 (General Information)

SDS-Info@fmc.com (E-Mail General Information)

Emergency telephone Medical Emergencies: 0800 140 1447

For leak, fire, spill or accidents: 001-803-017-9114 (CHEMTREC Indonesia)

1 703 741-5970 (CHEMTREC – International)

Section 2: HAZARDS IDENTIFICATION

GHS Classification

Aspiration toxicity	Category 1
Acute toxicity - Dermal	Category 5
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin sensitization	Category 1
Carcinogenicity	Category 2
STOT - single exposure	Category 3
Specific target organ toxicity (repeated exposure)	Category 2
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1

Flammable liquids	Category 4

Label Elements

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Signal Word: Danger

Hazard Statements

- H304 May be fatal if swallowed and enters airways
- H313 May be harmful in contact with skin
- H317 May cause an allergic skin reaction
- H332 Harmful if inhaled
- H351 Suspected of causing cancer
- H373 May cause damage to organs through prolonged or repeated exposure
- H410 Very toxic to aquatic life with long lasting effects
- H335 May cause respiratory irritation
- H336 May cause drowsiness or dizziness
- H227 Combustible liquid

Precautionary Statements - Prevention

- P202 Do not handle until all safety precautions have been read and understood
- P281 Use personal protective equipment as required
- P271 Use only outdoors or in a well-ventilated area
- P272 Contaminated work clothing should not be allowed out of the workplace
- P280 Wear protective gloves
- P260 Do not breathe dust/fume/gas/mist/vapors/spray
- P273 Avoid release to the environment
- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking
- P235 Keep cool

Precautionary Statements - Response

- P308 + P313 If exposed or concerned: Get medical advice/attention
- P321 Specific treatment (see supplemental first aid instructions on this label)
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
- 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 CO2, dry chemical, or foam for extinction
- P391 Collect spillage

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

Other Information

May be fatal if swallowed and enters airways

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

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)

		Mainbt 0/
Chemical name	CAS-No	l Weight %

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Zeta-cypermethrin (F2700)	52315-07-8	1.69
Naphtha (petroleum), heavy aromatic	64742-94-5	10 - 40
Paraffins oils	8012-95-1	60-70
Naphthalene*	91-20-3	1 - 5

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SECTION	4.	LIVOI	AID		100	

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.

Skin ContactTake 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.

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.

Ingestion Call a physician or poison control center immediately. Have person sip a glass of water if

able to swallow. Do not induce vomiting unless told to do so by a poison control center or

doctor. Do not give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Central nervous system effects.

Use personal protective equipment. See Section 8 for more detail.

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

This product contains 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.

Section 5: FIRE FIGHTING MEASURES

Flammable properties Moderately combustible. The product may form flammable mixtures with air when heated

above the flash point.

Suitable Extinguishing Media Foam, Dry chemical or CO2. Soft stream or water fog only if necessary. Contain all runoff.

Unsuitable extinguishing media No information available

Specific Hazards Arising from the

Chemical

Keep product and empty container away from heat and sources of ignition.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus and full protective gear.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions Isolate and post spill area. 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 material out of lakes, streams, ponds, and sewer drains.

Methods for Containment Dike to confine spill and absorb with non-combustible absorbent such as clay, sand or soil.

Vacuum, shovel or pump waste into a drum and label contents for disposal.

Methods for cleaning up

To clean and neutralize a contaminated area, scrub area with a solution of detergent (e.g.

commercial product such as SuperSoap™, Tide®, Spic and Span®, or other high pH

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detergent) and water. Let solution sit for 5 minutes. Use a stiff brush to scrub affected area. Repeat if necessary to remove visible staining. Additional decontamination can be made by applying bleach (Clorox® or equivalent) to affected area. Absorb, as above, any excess liquid and add to the drums of waste already collected. Dispose of waste as indicated in Section 13.

Section 7: HANDLING AND STORAGE

Handling Handle in accordance with good industrial hygiene and safety practice. 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 at temperatures below .?°C. Do not use

or store near heat or open flame. Store in original container. Keep out of reach of children

and animals.

Materials to avoid None known

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

	Component	China	Japan	Korea	Australia	Taiwan
Ī	Paraffins oils		OEL: 3 mg/m ³		TWA 5 mg/m ³	STEL 10 mg/m ³
	8012-95-1 (60-70)		C1			
Ī	Naphthalene*	TWA: 50 mg/m ³	C2B	S*	STEL 15 ppm	STEL 15 ppm
1	91-20-3 (1 - 5)	STEL: 75 mg/m ³	ISHL/ACL: 10 ppm	STEL: 15 ppm	STEL 79 mg/m ³	STEL 78 mg/m ³
١		S*		TWA: 10 ppm	TWA 10 ppm	
-		C1			TWA 52 mg/m ³	
١		C3				

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

Respiratory Protection For dust, splash, mist or spray exposures wear a elastomeric full-face or half mask

respirator with appropriate cartridges and/or filters which is approved for pesticides (U.S.

NIOSH/MSHA, EU CEN or comparable certification organization).

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.

Eye/Face Protection For dust, splash, mist or spray exposure, wear chemical protective goggles.

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

Hygiene measuresClean 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.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State Liquid

AppearanceLight yellow LiquidOdorAromatic hydrocarbon

Color Light yellow

Odor threshold
PH
No information available

Flash point 67 °C

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Evaporation RateFlammability (solid, gas)
No information available
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 Specific gravity No information available Water solubility No information available Solubility(ies) No information available No information available **Partition coefficient Autoignition temperature** No information available **Decomposition temperature** No information available Viscosity, kinematic No information available Viscosity, dynamic No information available 416.3 (zeta-cypermethrin) Molecular weight Relative density 0.8819 g/cm3 @ 20°C **Bulk density** No information available

K_{st} >0 bar m/s

Section 10: STABILITY AND REACTIVITY

Reactivity Not applicable

Stability Stable

Hazardous reactionsNone under normal processing.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to Avoid Excessive heat.

Incompatible productsNo information available.

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2), Hydrogen cyanide, Chlorine, Hydrogen

chloride:

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Numerical measures of toxicity - Product Information

LD50 Oral : > 6,880 mg/kg (rat) LD50 Dermal : > 2,150 mg/kg (rat)

LC50 Inhalation (dust) : Similar product (5163): 2.5 (4h) (rat)

Chemical name LD50 Oral		LD50 Dermal	LC50 Inhalation (vapor)		
Naphtha (petroleum), heavy	300-2000 mg/kg	> 2 mL/kg (Nyúl)	>5,2 mg/L		
aromatic					
(64742-94-5)					
Paraffins oils	> 24 g/kg (Rat)		= 2062 ppm (Rat) 4 h		
(8012-95-1)					
Naphthalene*	= 1110 mg/kg (Rat)	= 1120 mg/kg (Rabbit)	> 340 mg/m³(Rat)1 h		
(91-20-3)	= 490 mg/kg (Rat)	> 20 g/kg(Rabbit)	-		
1,2,4-Trimethylbenzene	= 3280 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	= 18 g/m³(Rat)4 h		
(95-63-6)			-		

Skin corrosion/irritation Mildly irritating.
Serious eye damage/eye irritation Mildly irritating.
Sensitization Mild sensitizer.

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

Mutagenicity Zeta-cypermethrin: Not genotoxic in laboratory studies.

Carcinogenicity 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.

Reproductive toxicity Zeta-cypermethrin: No toxicity to reproduction in animal studies.

Developmental toxicityZeta-cypermethrin: Not teratogenic in animal studies.

STOT - single exposure May cause damage to organs. See listed target organs below.

STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure. See listed target

organs below.

Chronic toxicity Zeta-cypermethrin: Long-term exposure caused neurotoxicity (body tremors, decreased

motor activity), decreased body weight and increased liver weight.

Target organ effects Zeta-cypermethrin: Central Nervous System,

Neurological effects Zeta-cypermethrin: Causes neurotoxicity (tremors and decreased motor activity) following

acute, subchronic or chronic exposure.

Aspiration hazard No information available.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Very toxic to aquatic life with long lasting effects.

Zeta-cypermethrin (F2700) (52315-07-8)							
Active Ingredient(s)	Active Ingredient(s) Duration Species Value						
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			

Persistence and degradability Zeta-cypermethrin: Non-persistent. Readily hydrolyzed. Not readily biodegradable.

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

Mobility Zeta-cypermethrin: Immobile; Not expected to reach groundwater.

Other Adverse Effects No information available.

Section 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 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.

Section 14: TRANSPORT INFORMATION

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IMDG/IMO

UN/ID no UN3082

Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.(Zeta-cypermethrin)

Hazard class 9
Packing Group III
EmS No. F-A, S-F
Environmental Hazards Yes

ICAO/IATA

UN/ID no UN3082

Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.(Zeta-cypermethrin)

Hazard class 9
Packing Group III
Environmental Hazards Yes

Section 15: REGULATORY INFORMATION

International Inventories

A food, food additive, drug, cosmetic, or device, when manufactured, processed or distributed in commerce for use as a food, food additive, drug, cosmetic, or device may not be subject to local notification requirements. Check local regulations for more information.

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELIN CS (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Zeta-cypermethrin (F2700) 52315-07-8			X		Х	Х	X	Х
Naphtha (petroleum), heavy aromatic 64742-94-5	Х	Х	Х		Х	Х	Х	Х
Paraffins oils 8012-95-1	Х	Х	Х		Х	Х	Х	Х
Naphthalene* 91-20-3	Х	Х	Х	Х	Х	Х	Х	Х

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

Section 16: OTHER INFORMATION

Prepared By: FMC Corporation

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Revision note

SDS sections updated.

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End of Safety Data Sheet