



SAFETY DATA SHEET

Dominex 3EW

SDS #: FO001130-A
Revision date: 2021-10-26
Format: AP
Version 2

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Dominex 3EW
Product Code(s)	FO001130-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) Xanthan Gum
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

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 5
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

Label Elements



Signal Word:

WARNING**Hazard Statements**

H302 - Harmful if swallowed
 H313 - May be harmful in contact with skin
 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

Precautionary Statements - Prevention

P202 - Do not handle until all safety precautions have been read and understood
 P281 - Use personal protective equipment as required
 P264 - Wash face, hands and any exposed skin thoroughly after handling
 P270 - Do not eat, drink or smoke when using this product
 P260 - Do not breathe dust/fume/gas/mist/vapors/spray
 P271 - Use only outdoors or in a well-ventilated area
 P273 - Avoid release to the environment

Precautionary Statements - Response

P308 + P313 - If exposed or concerned: Get medical advice/attention
 P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
 P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell
 P330 - Rinse mouth
 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 harmful 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) Xanthan Gum

Chemical name	CAS-No	Weight %
Zeta-cypermethrin (F2700)	52315-07-8	1 - 15
Propylene glycol	57-55-6	5-10
Naphtha (petroleum), heavy aromatic	64742-94-5	1-5
n-Butanol	71-36-3	1-5

Section 4: FIRST AID MEASURES

Inhalation

Move to fresh air. If person is not breathing, contact emergency medical services, then give artificial respiration, preferably mouth-to-mouth, if possible. 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.
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.
Indication of immediate medical attention and special treatment needed, if necessary	Treat symptomatically.

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, Carbon dioxide (CO ₂), Dry chemical. 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 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 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 or neutralize spill area, tools and equipment, wash with a suitable solution of caustic or soda ash and an appropriate alcohol such as ethanol, methanol or isopropanol. Follow this by washing with a strong soap and water solution. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Dispose of waste as indicated in Section 13.

Section 7: HANDLING AND STORAGE

Handling	Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.
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.

Materials to avoid

None known

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Component	China	Japan	Korea	Australia	Taiwan
Propylene glycol 57-55-6 (5-10)				TWA 150 ppm TWA 474 mg/m ³ TWA 10 mg/m ³	
n-Butanol 71-36-3 (1-5)	TWA: 100 mg/m ³	Ceiling: 50 ppm Ceiling: 150 mg/m ³ S* ISHL/ACL: 25 ppm	S* TWA: 20 ppm	Peak 50 ppm Peak 152 mg/m ³	STEL 125 ppm STEL 378.75 mg/m ³

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

Protective gloves.

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 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.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	White Viscous Liquid
Odor	No information available
Color	White
Odor threshold	No information available
pH	4.0-7.0
Melting point/freezing point	No information available
Boiling Point/Range	No information available
Flash point	> 100 °C
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
Specific gravity	1.02 g/ml
Water solubility	No information available
Solubility(ies)	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
Molecular weight	No data available
Relative density	No information available
Bulk density	No information available
K _{st}	>0 bar m/s

Section 10: STABILITY AND REACTIVITY

Reactivity	Not applicable
Stability	Stable under recommended storage conditions
Hazardous reactions	None under normal processing.
Hazardous polymerization	Hazardous polymerization does not occur.
Conditions to Avoid	Excessive heat.
Incompatible products	No information available.
Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO ₂).

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Numerical measures of toxicity - Product Information

LD50 Oral	: 794 mg/kg (female rat)/ 369 mg/kg (male rat)
LD50 Dermal	: > 2000 mg/kg (rat)
LC50 Inhalation (dust)	: > 2000 mg/L 4 hr (rat)

Skin corrosion/irritation	No skin irritation.
Serious eye damage/eye irritation	No eye irritation.
Sensitization	No information available.

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 toxicity	Zeta-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	Chronic exposure to silica dust may increase the risk of developing pneumoconiosis or silicosis, chronic diseases affecting the lungs, characterized by labored breathing, cough, reduction of work capacity, reduction of lung capacity, heart enlargement and failure.
Target organ effects	Zeta-cypermethrin: Central Nervous System, blood.
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)	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

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	Dispose of in accordance with federal, state and local regulations.

Section 14: TRANSPORT INFORMATION

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	Zeta-cypermethrin

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	Zeta-cypermethrin

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/ELINCS (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Zeta-cypermethrin (F2700) 52315-07-8			X		X	X	X	X
Propylene glycol 57-55-6	X	X	X	X	X	X	X	X
Naphtha (petroleum), heavy aromatic 64742-94-5	X	X	X		X	X	X	X
n-Butanol 71-36-3	X	X	X	X	X	X	X	X

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