

SAFETY DATA SHEET Pyzero 100EC

SDS #: FO000918-A

Revision date: 2018-08-10 Format: AP

Version 3

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name Pyzero 100EC

Product Code(s) FO000918-A

Synonyms METAMIFOP:

(R)-2-[4-(6-chloro-1,3-benzoxazol-2-yloxy)phenoxy]-2'-fluoro-N-methylpropionanilide

(IUPAC name);

(2R)-2-[4-[(6-chloro-2-benzoxazolyl)oxy]phenoxy]-N-(2-fluorophenyl)-N-methylpropanamide

(CAS name)

Active Ingredient(s) Metamifop

Recommended Use: Herbicide.

Restrictions on Use: Use as recommended by the label.

Manufacturer/Supplier

FMC Corporation 2929 Walnut Street Philadelphia, PA 19104

(215) 299-6000 (General Information)

msdsinfo@fmc.com (E-Mail General Information)

Telephone: 86 21 20675888 Telefax: 86 21 20675858

Emergency telephone 86 532 8388 9090

Section 2: HAZARDS IDENTIFICATION

GHS - Classification

Category 2A
Category 1B
Category 2
Category 2

Flammable liquids Category 4

Label Elements



Signal Word WARNING

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Hazard Statements

H319 - Causes serious eye irritation

H317 - May cause an allergic skin reaction

H411 - Toxic to aquatic life with long lasting effects

H227 - Combustible liquid

Precautionary Statements - Prevention

P281 - Use personal protective equipment as required

P271 - Use only outdoors or in a well-ventilated area

P264 - Wash face, hands and any exposed skin thoroughly after handling

P273 - Avoid release to the environment

P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

P321 - Specific treatment (see supplemental first aid instructions on this label)

P370+P378: In case of fire, use foam or carbon dioxide for extinction.

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

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P362 + P364 - Take off all contaminated clothing and wash it before reuse

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

P331 - Do NOT induce vomiting

In case of fire: Use CO2, dry chemical, or foam for extinction

P391 - Collect spillage

Precautionary Statements - Storage

P405 - Store locked up

P403 + P235 - Store in a well-ventilated place. Keep cool

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 METAMIFOP: (R)-2-[4-(6-chloro-1,3-benzoxazol-2-yloxy)phenoxy]-2'-fluoro-N-methylpropionanilide (IUPAC name); (2R)-2-[4-[(6-chloro-2-benzoxazolyl)oxy]phenoxy]-N-(2-fluorophenyl)-N-methylpropanamide (CAS name)

Chemical name	CAS-No	Weight %
Metamifop	256412-89-2	10
2-Ethylhexyl Acetate	103-09-3	5-15
Calcium dodecylbenzene sulfonate	26264-06-2	1-5
Ethoxylated Alcohol	68131-40-8	5-15
Acetophenone	98-86-2	5-10

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.

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

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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

None known.

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

Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media Dry chemical, carbon dioxide, water spray or regular foam.

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. Remove all sources of ignition. Wear protective gloves/clothing

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. Keep people and animals

away from and upwind of spill/leak. Keep out of waterways.

impervious surface should immediately be swept up or preferably vacuumed up using equipment with high efficiency final filter. Transfer to suitable containers. Clean area with detergent and much water. Absorb wash liquid onto inert absorbent such as universal binder, Fuller's earth, bentonite or other absorbent clay and collect in suitable containers.

The used containers should be properly closed and labelled.

Methods for cleaning up Absorb with earth, sand or other non-combustible material and transfer to containers for

later disposal. Pick up and transfer to properly labeled containers.

Section 7: HANDLING AND STORAGE

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes and clothing. Wash thoroughly after handling. Remove and wash contaminated

clothing before re-use.

Storage Keep in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep in

properly labeled containers. Keep away from food, drink and animal feedingstuffs.

Materials to avoid Strong oxidizing agents, Strong acids, Strong bases.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

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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 The product does not automatically present an airborne exposure concern during normal

handling. In the event of an accidental discharge of the material which produces a heavy vapour or mist, workers should put on officially approved respiratory protection equipment

with a universal filter type including particle filter.

Hand Protection Wear chemical protective gloves made of materials such as nitrile or neoprene.

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

wash fountain and guick-drench facilities in work area.

Skin and Body Protection Wear protective gloves/clothing.

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

Appearance Light brown Liquid

Odor Aromatic Color Light brown

Odor threshold
pH
No information available

Flash point 64 °C

Evaporation Rate No information available Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit: No information available No information available Lower flammability limit: No information available Vapor pressure Vapor density No information available Specific gravity 0.980 (20 degrees C) 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 No information available Viscosity, dynamic **Density** No information available No information available **Bulk density**

Section 10: STABILITY AND REACTIVITY

Reactivity None under normal use conditions

Stability Stable under recommended storage conditions

Hazardous reactionsNone under normal processing.

Hazardous polymerization Hazardous polymerization does not occur.

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Conditions to Avoid Heat, flames and sparks.

Incompatible products Strong oxidizing agents, Strong acids, Strong bases.

Hazardous Decomposition Products Thermal decomposition can lead to release of irritating gases and vapors.

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Numerical measures of toxicity - Product Information

 LD50 Oral
 > 5,000 mg/kg

 LD50 Dermal
 > 2,000 mg/kg

 LC50 Inhalation
 > 2 mg/L

Skin corrosion/irritation Non-irritating.

Serious eye damage/eye irritation Light to medium irritation. **Sensitization** Weakly sensitizing.

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

MutagenicityNot mutagenic.CarcinogenicityNot carcinogenic

Reproductive toxicityNo toxicity to reproduction in animal studies.

Developmental toxicityNot teratogenic in animal studies.

STOT - single exposure Not classified. STOT - repeated exposure Not classified.

Chronic toxicity Avoid repeated exposure. Prolonged exposure may cause chronic effects.

Neurological effects Not neurotoxic.

Aspiration hazard No information available.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

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

Metamifop (256412-89-2)				
Active Ingredient(s)	Duration	Species	Value	Units
Metamifop	LD50	Bee	>100	μg/bee
	LC50	Earthworm	>1000	ppm
	LD50 Oral	Bobwhite quail	>2000	mg/kg
	96 h LC50	Rainbow trout	0.185	mg/L
	48 h EC50	Daphnia	0.288	mg/L

Persistence and degradability No information available.

Bioaccumulation Metamifop: The substance does not have a potential for bioconcentration.

Mobility No information available.

Other Adverse Effects No information available.

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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. Proper personal protective equipment, as described in

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

Contaminated Packaging Dispose of in accordance with local regulations.

Section 14: TRANSPORT INFORMATION

IMDG/IMO

UN/ID no UN3082

Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.

Metamifop

 Hazard class
 9

 Packing Group
 III

 EmS No.
 F-A, S-F

 Marine Pollutant
 Yes

ICAO/IATA

UN/ID no UN3082

Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.

Metamifop

Hazard class 9
Packing Group III
Marine Pollutant 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	DSL (Canada)	EINECS/ELIN	ENCS (Japan)	China	KECL (Korea)	PICCS	AICS
	States)		CS (Europe)		(IECSC)		(Philippines)	(Australia)
2-Ethylhexyl Acetate 103-09-3	X	X	X	X	X	X	X	X
Ethoxylated Alcohol 68131-40-8	X	Х			X	X	Х	Х
Acetophenone 98-86-2	X	X	Х	Х	Х	X	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

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End of Safety Data Sheet