SAFETY DATA SHEET

PJ997 Herbicide

SDS #: FO004353-A Revision date: 2021-07-20

Format: NA Version 1.01



1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name PJ997 Herbicide

Other means of identification

Product Code(s) FO004353-A

Legacy Product Code PJ997-R001; 50002049

Synonyms CARFENTRAZONE-ETHYL:

ethyl α,2-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]

-4-fluorobenzenepropanoate (CAS name);

ethyl (RS)-2-chloro-3-[2-chloro-5- (4-difluoromethyl-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl) -4-fluorophenyl] propionate (IUPAC name)

Active Ingredient(s) Carfentrazone-ethyl

Chemical Family Triazolinones

PCP # 34140

Recommended use of the chemical and restrictions on use

Recommended Use: Herbicide

Restrictions on Use: Use as recommended by the label.

<u>Supplier Address</u> FMC of Canada Limited

6755 Mississauga Road, Suite 204

Mississauga, ON L5N 7Y2

Canada

Web: https://ag.fmc.com/ca/en

Phone (AgHotline): 1-833-FMC-PPAC (1-833-362-7722)

Email: SDS-Info@fmc.com

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

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

Serious eye damage/eye irritation Category 2

GHS Label elements, including precautionary statements

EMERGENCY OVERVIEW

Signal Word: Warning

Hazard Statements

H319 - Causes serious eye irritation



Precautionary Statements - Prevention

P264 - Wash hands thoroughly after handling

P273 - Avoid release to the environment

P280 - Wear protective gloves/protective clothing/eye protection/face protection

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

Precautionary Statements - Disposal

P501 - Dispose of contents/container according to label directions

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

Triazolinones.

Chemical name	CAS-No	Weight %
Carfentrazone-ethyl	128639-02-1	40
Crystalline silica, quartz	14808-60-7	<1
Naphthalene sulfonic acid-formaldehyde	9084-06-4	15 - 20
condensate, sodium salt		

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 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.

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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 Call a poison control center or doctor immediately for treatment advice 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. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

May cause eye irritation.

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

Immediate medical attention is required in cases of ingestion. It may be helpful to show this safety data sheet to physician.

Notes to physician: A specific antidote for exposure to this material is not known. Gastric lavage and/or the administration of activated charcoal can be considered. After decontamination, treatment should be directed at the control of symptoms and the clinical condition.

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 (CO₂).

Large Fire Water spray. Foam.

Unsuitable extinguishing media Avoid heavy hose streams.

Specific Hazards Arising from the

Chemical

Hazardous Combustion Products

None known

The essential breakdown products are volatile, toxic, irritant and inflammable compounds such as nitrogen oxides, hydrogen fluoride, hydrogen chloride, sulphur dioxide, carbon

monoxide, carbon dioxide and various fluorinated and chlorinated organic compounds.

Explosion data

Sensitivity to Mechanical Impact Sensitivity to Static Discharge No information available. No information available.

Protective equipment and precautions for firefighters

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

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. Keep out of waterways. Do not release to the

environment.

Methods for Containment Nearby surface water drains should be covered. Minor spills on the floor or other 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 water. Do not let wash liquid enter drains or waterways. Absorb wash liquid with an 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.

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Methods for cleaning up Pick up and transfer to properly labeled containers.

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. Avoid contact with skin, eyes and clothing. Avoid breathing dust. Wash thoroughly after handling. Remove

contaminated clothing and shoes.

Storage Store in closed, labelled containers. The storage room should be constructed of

incombustible material, closed, dry, ventilated and with impermeable floor, without access of unauthorised persons or children. A warning sign reading "POISON" is recommended. The room should only be used for storage of chemicals. Food, drink, feed and seed should

not be present. A hand wash station should be available.

Packaging material Must only be kept in original packaging.

Incompatible products None known

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Chemical name	ACGIH TLV	OSHA PEL	NIOSH	Mexico
Carfentrazone-ethyl	TWA: 1 mg/m ³	-	-	-
(128639-02-1)				
Crystalline silica, quartz	TWA: 0.025 mg/m ³	TWA: 50 μg/m ³	IDLH: 50 mg/m ³	Mexico: TWA 0.025
(14808-60-7)			TWA: 0.05 mg/m ³	mg/m³
Chemical name	British Columbia	Quebec	Ontario TWAEV	Alberta
Crystalline silica, quartz	TWA: 0.025 mg/m ³	TWA: 0.1 mg/m ³	TWA: 0.10 mg/m ³	TWA: 0.025 mg/m ³
(14808-60-7)	_		respirable	_
, ,			·	

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. Maintain eye

wash fountain and quick-drench facilities in work area.

Skin and Body Protection Wear suitable protective clothing. Protective shoes or boots.

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 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.

Hygiene measures Clean water should be available for washing in case of eye or skin contamination. Remove

and wash contaminated clothing before re-use. Wash skin prior to eating, drinking, chewing gum or using tobacco. Shower or bathe at the end of working. 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.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance Granules
Physical State Solid

Color Off-white to beige

Odor Latex

Odor threshold No information available

pH 8.63

Melting point/freezing point

Boiling Point/Range

No information available
No information available

Flash point Not applicable

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

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor density

No information available
No information available
No information available
No information available

Relative density Pour density: 44.7 lbs/ft3 (0.716 g/mL)

Tap density: 45.9 lbs/ft3 (0.735 g/mL)

Specific gravity No information available Water solubility Emulsifies in water Solubility in other solvents No information available No information available **Partition coefficient Autoignition temperature** No information available **Decomposition temperature** No information available No information available Viscosity, kinematic No information available Viscosity, dynamic

Explosive properties Not explosive Oxidizing properties Non-oxidizing

Molecular weight No information available

Bulk densityPour density: 44.7 lbs/ft3 (0.716 g/mL)

Tap density: 45.9 lbs/ft3 (0.735 g/mL)

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 Heating of the product will produce harmful and irritant vapors.

Moderately irritating (rabbit).

Incompatible materials None known.

Hazardous Decomposition Products See Section 5 for more information.

11. TOXICOLOGICAL INFORMATION

Product Information

LD50 Oral > 5000 mg/kg (female rat)
LD50 Dermal > 5000 mg/kg (rat) (male/female)
LC50 Inhalation (dust) > 5.18 mg/L 4 hr (rat) (male/female)

Serious eye damage/eye irritation

Skin corrosion/irritation Slightly irritating (rabbit).

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Sensitization Non-sensitizing (mice-LLNA).

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation (vapor)
Carfentrazone-ethyl (128639-02-1)	= 5143 mg/kg (rat)	> 4000 mg/kg (rat)	> 5 mg/L 4h (rat)
Naphthalene sulfonic acid-formaldehyde condensate, sodium salt (9084-06-4)	= 3800 mg/kg(Rat)		

Information on toxicological effects

Symptoms May cause eye irritation.

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

Chronic toxicity Long-term exposure caused neurotoxicity (body tremors, decreased motor activity),

decreased body weight and increased liver and spleen weight

Mutagenicity Carfentrazone-ethyl: Not genotoxic in laboratory studies.

Carcinogenicity Carfentrazone-ethyl No evidence of carcinogenicity from animal studies.

Neurological effectsCarfentrazone-ethyl Not neurotoxic.

Reproductive toxicity Carfentrazone-ethyl . No toxicity to reproduction in animal studies.

Developmental toxicityCarfentrazone-ethyl . Not teratogenic in animal studies.

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

Neurological effects Carfentrazone-ethyl Not neurotoxic.

Aspiration hazard The product does not present an aspiration pneumonia hazard.

Chemical name	ACGIH	IARC	NTP	OSHA
Crystalline silica, quartz	A2	Group 1	Known	X
14808-60-7				

Legend:

ACGIH (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans
NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

12. ECOLOGICAL INFORMATION

Ecotoxicity

Carfentrazone-ethyl (128639-02	2-1)			
Active Ingredient(s)	Duration	Species	Value	Units
	72 h EC50	Algae	0.012	mg/L
	96 h LC50	Rainbow trout	1.6	mg/L
	48 h LC50	Daphnia	>9.8	mg/L
	96 h NOEC	Algae	1.0	μg/L
	21 d NOEC	Fish	0.0187	mg/L
	21 d NOEC	Crustacea	0.22	mg/L
	LC50	Eisenia fetida	> 820	mg/kg
	LD50 Oral	Bee	> 200	μg/bee
	LD50 contact	Bee	> 200	μg/bee
	LD50 acute oral	Northern bobwhite	>2250	mg/kg
	LD50 Oral	Bobwhite quail	>2000	mg/kg

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aguatic invertebrates
Carfentrazone-ethyl	EC50 = 12 μg/l	96 h LC50 = 1,6 mg/L&0,0187	48 h EC50 > 9,8 mg/L&0,22

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128639-02-1	14d EC50 = 0,0057 mg/L		
Sodium Benzoate		96 h LC50: 420 - 558 mg/L	48 h EC50: < 650 mg/L (Daphnia
532-32-1		(Pimephales promelas) flow-through	
		96 h LC50: > 100 mg/L (Pimephales	
		promelas) static	
Bis(2-ethylhexyl) sodium		96 h LC50: 20 - 40 mg/L	48 h EC50: = 36 mg/L (Daphnia
sulfosuccinate		(Oncorhynchus mykiss) semi-static	magna)
577-11-7		96 h LC50: < 24 mg/L	
		(Oncorhynchus mykiss) static 96 h	
		LC50: = 37 mg/L (Lepomis	
		macrochirus) static	

Persistence and degradability Carfentrazone-ethyl . Non-persistent. Readily hydrolyzed. Not readily biodegradable.

Carfentrazone-ethyl . The substance does not have a potential for bioconcentration. Bioaccumulation

Carfentrazone-ethyl . Not relevant. **Mobility**

13. DISPOSAL CONSIDERATIONS

Improper disposal of excess pesticide, spray mixture, or rinsate is prohibited. If these Waste disposal methods

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 This material is not a hazardous material as defined by U.S. Department of Transportation

> 49 CFR Parts 100 through 185, unless shipped in bulk packaging. The classification below pertains to the shipment in bulk packaging [(>119 gal, liquid) or (882 lb, solid)].

TDG Classification below is only applicable when shipped by vessel and is not applicable when

shipped by road or rail only.

UN/ID no

Proper Shipping Name

UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (carfentrazone-ethyl)

Hazard class **Packing Group** Ш

Marine Pollutant Yes.

Description UN3077, Environmentally hazardous substance, solid, n.o.s. (Carfentrazone-ethyl), 9, III,

Marine Pollutant

ICAO/IATA

UN/ID no UN3077

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (carfentrazone-ethyl)

Hazard class Packing Group

UN3077, Environmentally hazardous substance, solid, n.o.s. (Carfentrazone-ethyl), 9, III, Description

Marine Pollutant

IMDG/IMO

UN/ID no

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (carfentrazone-ethyl)

Hazard class 9 **Packing Group** Ш EmS No. F-A, S-F Marine Pollutant **Environmental Hazards**

UN3077, Environmentally hazardous substance, solid, n.o.s. (Carfentrazone-ethyl), 9, III, Description

Marine Pollutant

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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 does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

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

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

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

Causes moderate eye irritation. DO NOT get in eyes.

Avoid breathing dust. Avoid contact with eyes, skin or clothing.

Wash thoroughly with soap and water after handling.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Crystalline silica, quartz 14808-60-7	X	X	X

International Inventories

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELINC S (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Carfentrazone-ethyl 128639-02-1					Х			
Crystalline silica, quartz	X	Х	X	X	Х	X	Х	X

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14808-60-7							
Naphthalene sulfonic acid-formaldehyde condensate, sodium salt 9084-06-4	Х	Х	Х	Х	X	Х	Х

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 1	1	Flammability 1	Instability 0	Special Hazards -
HMIS	Health Hazards 1	1	Flammability 1	Physical hazard 0	Personal Protection X

NFPA/HMIS Ratings Legend Severe = 4: Serious = 3: Moderate = 2: Slight = 1: Minimal = 0

Revision date: 2021-07-20 Reason for revision: Initial Release

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