

SAFETY DATA SHEET

Date: 1 August, 2017
Serial No.: AGG10049C2_02

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME **Penthiopyrad 20SC**
SYNONYM Affet 200SC
USE OF PRODUCT Fungicide

COMPANY IDENTIFICATION

Mitsui Chemicals Agro, Inc.
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2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Acute toxicity	
Oral	Not classified
Dermal	Not classified
Skin corrosion/irritation	Not classified
Serious eye damage/eye irritation	Not classified
Skin sensitization	Not classified

Aquatic hazards	
Acute	Category 2
Chronic	Category 2

GHS LABEL ELEMENTS

Hazard Pictograms



Signal Word Not available

Hazard Statements

H401: Toxic to aquatic life
H411: Toxic to aquatic life with long lasting effects

Precautionary Statements

Prevention
P273: Avoid release to the environment.
Response
P391: Collect spillage.
Disposal
P501: Dispose of contents or container in accordance with local, regional, national and international regulations.

OTHER HAZARDS

Not available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	%	CAS No.
Penthiopyrad(*)	20	183675-82-3
Surfactant / Water	80	-

* (RS)-N-[2-(1,3-dimethylbutyl)-3-thienyl]-1-methyl-3-(trifluoromethyl)pyrazole-4-carboxamide

Occupational exposure limits, if available, are listed in Section 8.

4. FIRST AID MEASURES

INGESTION

Rinse mouth with water. Get medical attention immediately. Induce vomiting as directed by medical personnel. Never give anything by mouth to an unconscious or convulsing person.

INHALATION

If you feel unwell, move to fresh air immediately. Get medical attention if cough or other symptoms develop. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

SKIN CONTACT

Immediately remove contaminated clothing and shoes. Flush skin and clean off with large amounts of water. Get medical attention if symptoms develop.

EYE CONTACT

Immediately flush with plenty of water. Part eyelids with fingers to assure complete flushing. Check for and remove contact lenses if easily possible. Get medical attention if irritation persists.

5. FIREFIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA

Foam, dry chemical, CO₂, water fog, sand.

UNSUITABLE EXTINGUISHING MEDIA

Not available

GENERAL HAZARD

No unusual fire or explosion hazard for normal industrial or commercial handling.

HAZARDOUS COMBUSTION PRODUCTS

Nitrogen oxides, sulfur oxides, halogenated compounds.

FIREFIGHTING INSTRUCTIONS

Keep unnecessary and unprotected personnel away. Shut off supply if possible. Remove containers to safe place if possible. Keep containers and surroundings cool by spraying with water. Fight fire from an upwind position.

FIREFIGHTING EQUIPMENT

Respiratory and eye protection is required for firefighting personnel.

Full protective equipment and self-contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS AND EMERGENCY PROCEDURES

Warn and evacuate in the neighborhood as necessary. Keep unnecessary and unprotected personnel away. Wear appropriate personal protective equipment as specified in Section 8. Remove all sources of ignition. Stop leak if possible without personal risk.

ENVIRONMENTAL PRECAUTIONS

Do not let this product enter the environment.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Absorb or cover the spilled product with dry earth, sand or other non-combustible material, and transfer to sealable containers. Large spills: Dike far ahead of liquid spill for later disposal.

7. HANDLING AND STORAGE**HANDLING****Technical Measures**

Use only with adequate ventilation.

Where there may be potential of fire or explosion hazard, use explosion-proof electrical equipment and take precautions against build-up of electrostatic charges.

Wear appropriate personal protective equipment. Keep away from heat, sparks, open flames hot surfaces and all sources of ignition.

Precautions

Handle with care. Do not breathe mist. Avoid contact with eyes, skin and clothing.

Take precautionary measures against static discharge.

Advice on general occupational hygiene

Provide hand and eye wash station near work area. Wash hands thoroughly after use. Take off contaminated protective equipment before entering rest areas. Do not eat, drink or smoke when using this product.

STORAGE**Storage Conditions**

Keep away from heat and all sources of ignition. Store in a cool, dark and well-ventilated area.

Keep container tightly closed and sealed until ready for use.

Do not contaminate other pesticides, fertilizers, water, foodstuffs or feed by storage and disposal.

Packaging Materials

Plastics

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**OCCUPATIONAL EXPOSURE LIMIT VALUES**

Not established for this substance/product.

ENGINEERING CONTROLS

Provide general ventilation. Using closed system or local exhaust ventilation is recommended.

Provide safety shower and eye wash station near work area.

PERSONAL PROTECTION

Eye/face protection: Safety glasses, goggles, face shield.

Skin Protection:

Hand protection: Chemical resistant (impermeability) gloves.

Body Protection: Safety helmet, protective clothing, safety boots.

Respiratory protection: Chemical cartridge respirator

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Milky white liquid

Odor: Mild sweet

Odor threshold: Not available

pH (1%, 25°C): 7.11

Melting point: Not available

Initial boiling point and boiling range: Not available

Flash point:	> 230 °F (>110°C) [Not classified]
Evaporation rate:	Not available
Flammability:	Not available
Upper/lower flammability or explosive limits:	
Vapour pressure:	Not available
Bulk density(23°C):	1.054 g/cm ³
Solubilities:	Suspended in water
Partition coefficient: n-octanol/water:	Not available
Viscosity (shear rate 0.5-100):	6560-197.6 cps at 23°C, 4720-156.8 cps at 40°C
Auto-ignition temperature:	Not available

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY

Stable under normal conditions.

HAZARDOUS REACTIONS

No hazardous reaction when handled and stored according to provisions.

CONDITIONS TO AVOID

Not available

INCOMPATIBLE MATERIALS

Not available

HAZARDOUS DECOMPOSITION PRODUCTS

Nitrogen oxides, halogenated compounds.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Oral:	Rat	LD ₅₀ >5000 mg/kg	[Not classified]
Dermal:	Rat	LD ₅₀ >5000 mg/kg	[Not classified]
Inhalation:	Rat	LC ₅₀ >2.87 mg/L/4hr	[Classification not possible]

Skin Corrosion/Irritation

Rabbit	Non-Irritant	[Not classified]
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Serious Eye Damage/Irritation

Rabbit	Mild irritant	[Not classified]
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Respiratory Sensitization

Not available	[Classification not possible]
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Skin Sensitization

Guinea pig	Not a skin sensitizer.	[Not classified]
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Germ Cell Mutagenicity

Not available.	[Classification not possible]
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Carcinogenicity

Not available.	[Classification not possible]
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Reproductive Toxicity

Not available.	[Classification not possible]
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Specific Target Organ Toxicity

Single Exposure:	Not available.	[Classification not possible]
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Repeated Exposure:	Not available.	[Classification not possible]
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Aspiration Hazard

Not available.	[Classification not possible]
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12. ECOLOGICAL INFORMATION**HAZARDOUS TO THE AQUATIC ENVIRONMENT**Acute: Classified as category 2 based on the LC₅₀ for Bluegill.

[Category 2]

Chronic: Contains Penthiopyrad. (Category 1 M=1)

[Category 2]

ECOTOXICITY

Bluegill	LC ₅₀ (96hr)	5.7 mg/L
<i>Daphnia magna</i>	EC ₅₀ (48hr)	12 mg/L
Freshwater Alga(<i>Pseudokirchneriella subcapitata</i>)	ErC ₅₀ (0-72Hr)	28.7 mg/L

The following data are for Penthiopyrad, the active ingredient of this product.

ECOTOXICITY

Carp	LC ₅₀ (96hr)	0.568 mg/L
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HAZARDOUS TO THE OZONE LAYERThis product does not contain $\geq 0.1\%$ of at least one ingredient listed in the Annexes to the Montreal Protocol.

[Classification not possible]

13. DISPOSAL CONSIDERATIONS**WASTE FROM RESIDUES**

Waste must be disposed of in accordance with federal, state, local, national and international regulations.

CONTAMINATED PACKAGING

Empty the container completely before disposal.

14. TRANSPORT INFORMATION**UN**

Hazard Class:	9
UN Number:	UN3082
Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Penthiopyrad mixture)
Packing Group:	III
Marine Pollutant:	Yes

SPECIAL PRECAUTIONS FOR TRANSPORT

Make sure that the containers have no puncture or leakage. Avoid rough handling and dropping. Prevent collapse of cargo piles.

15. REGULATORY INFORMATION

This product is a pesticide.

Responsibility for compliance with applicable laws and regulations is with the user.

16. OTHER INFORMATION

References: In-house data

To the best of our knowledge, the information contained herein is accurate.

However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.