

CHEMICAL PRODUCT AND COMPANY INFORMATION 1.

Product Name : Emamectin Benzoate 1.5% + Fipronil 3.5% SC for

indigenous manufacture

Common Name : POWER-X

IUPAC Name : (1'R,2R,3S,4'S,6S,8'R,10'E,12'S,13'S,14'E,16'E,20'R,21'R,24'S)-

2-[(2S)-butan-2-yl]-21',24'-dihydroxy-12'-[(2R,4S,5S,6S)-4-

methoxy-5-[(2S,4S,5R,6S)-4-methoxy-6-methyl-5-(methylamino)oxan-2-yl]oxy-6-methyloxan-2-yl]oxy-

3,11',13',22'-tetramethylspiro[2,3-dihydropyran-6,6'-3,7,19trioxatetracyclo[15.6.1.14.8.0^{20,24}]pentacosa-10,14,16,22-

tetraene]-2'-one

5-amino-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-

(trifluoromethylsulfinyl)pyrazole-3-carbonitrile

Chemical

: (4"R)-5-O-demethyl -4"-deoxy-4"-(methyl amino) avermectin **Abstracts Name** A1a + (4"R)-5-Odemethyl-25-de (1-methylpropyl)-4"-deoxy-4"-

(methyl amino)-25-(1-methylethyl) =avermectin A1a (9:1); 4"-

(methyl amino) avermectin B1

5-amino-1-(2, 6-dichloro-4(trifluoromethyl) phenyl)-4-((1, R, S)-

(trifluoromethyl) sulfinyl)-1- H-pyrazole-3-carbonitrile

CAS No. : 121124-29-6, 120068-37-3

Chemical formula : C49H75NO13, C12H4Cl2F6N4OS

Molecular weight 886.1, 437.1

Chemical Family : Combination of Avermectin and Phenyl pyrazole

Use : Insecticide

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2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name CAS No. Content % (w/w)

Emamectin Benzoate 121124-29-6 1.5 Fipronil 120068-37-3 3.5

3. HAZARDS IDENTIFICATION

Health Hazards: When POWER-X gets on the skin, it can cause skin

sensations like tingling, itching, burning, or numbness

at that spot. These sensations usually go away within

48 hours. POWER-X can be mildly irritating if it gets

in the eye.

Emergency: Warning! Keep out of reach of children. Toxic if

swallowed and inhaled. Contact can cause eye or skin

irritation.

Skin and Eyes : Avoid contact with mouth, skin and eyes.

Entry route : Ingestion, Inhalation, Contact with eye or skin.

Symptoms of poisoning: Nasal discharge, Itching, Vomiting, eyes redness,

anxiety and convulsions.

4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Wash out mouth with plenty

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Eye

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of water. Rinse mouth before giving glass of water. Never give anything by mouth to an unconscious person. If breathing is difficult, give oxygen get medical attention.

: Wash off with plenty of water if pain persists, consult

an eye specialist

Skin : Remove affected clothing and wash all exposed skin

area with soap and water followed by warm water rinse. Consult a doctor in the event of any complaints

Inhalation : Remove victim to fresh air. Keep victim warm and at

rest. If breathing is difficult, give oxygen obtain

medical attention

Advice to Physician : No specific Antidote. Treat symptomatically.

5. FIRE FIGHTING MEASURES

Specific Hazard : There is no risk of an explosion from this product

under normal circumstances if involved in a fire.

Extinguishing Media : Extinguish fire using media suited to burning material.

If containers are ruptured contain all runoff. CO2, Foam or dry chemical are preferred. Soft stream water fog or fine water sprays if no alternatives. Contain all

runoff.

Hazard From

Combustion products

: If involved in a fire, it will emit toxic and noxious fumes of oxides of carbon, nitrogen or sulfur. Firefighters to wear self-contained breathing apparatus and suitable protective clothing if risk to of exposure

to vapour or smoke.

Protective equipment : Wear full protective clothing and self-contained

breathing apparatus. Do not breathe or contact smoke,

gases or vapours generated.

6. ACCIDENTAL RELEASE MEASURES

In Case of Emergency

: Isolate and post spill area. Wear cotton overalls buttoned to the neck and wrist, washable hat, elbowlength PVC gloves and eye/face protection to prevent skin and eyes being affected. Evacuate unprotected

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and unnecessary personnel from area of spill. If material is leaking from a container, stop the leak only if this can be done safely. Prevent spillage entering drains or watercourses. Contain spill and absorb spilled material with absorbent material such as sand, clay or cat litter and dispose of waste as per regulations.

Clean up Procedures

: To decontaminate spill area, tools and equipment, wash with detergent and water and add the solution to the drums of wastes already collected and label contents. Do NOT allow spilled product or wash solution to enter sewers, drains, dams, creeks or any other waterways.

7. HANDLING AND STORAGE

Handling : Ensure containers are kept closed until using product.

Avoid contact with eyes and skin. Wear cotton overalls buttoned to the neck and wrist, washable hat and

elbow-length PVC gloves.

Storage : DO NOT store near (or allow to contact) fertilizers,

fungicides or pesticides. Store in the closed original container, in a cool well ventilated area, out of direct sunlight. Store in a room or place away from children,

animals, food, feed stuffs, seed and fertilizers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Good general ventilation should be sufficient for most

conditions. Local exhaust ventilation may be necessary

for some operations.

Ingestion : DO NOT eat, drink or apply cosmetics, where there is

a potential for exposure to the product.

Eye Protection : Safety goggles, chemical splash goggles or face shield

for eyes protection should be used. Safety showers and

eye wash should be easily available.

Skin Protection : Chemical resistant gloves, coveralls socks, apron and

chemical resistant foot covering should always be used

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while handling the product.

Respiratory protection: Always use NIOSH/MSHA approved respiratory

protection equipment with a universal filter type

including particle filter.

General Protection: Avoid contact with eyes and skin. While handling the

product wear cotton overalls buttoned to the neck and wrist. Elbow-length PVC gloves and face shield. After use and before eating, drinking and smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves and contaminated

clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES (Technical)

Colour : White to off-white powder, : Liquid flowable suspension

Melting point : 141-146 °C, 200.5 °C

Physical state : White to off-white powder, White Powder.

Density : 1.20 at 23 °C, 1.477-1.626 at 20 °C

10. STABILITY AND REACTIVITY

Chemical Stability : Stable under normal conditions

Conditions to Avoid : Heat, flames and sparks

Hazardous : None under normal use conditions

decomposition products

Hazardous Reactions: None under normal processing

11. TOXICOLOGICAL INFORMATION (Technical)

Acute Oral LD₅₀ : LD₅₀ (rats) 1516 mg/kg, Acute Oral LD₅₀

(Rat):1,999mg/kg

Acute Dermal LD₅₀ : LD50 (Rats) >2000 mg/kg, > 2,000 mg/kg

Acute Inhalation LC₅₀ : LC50 (rats): > 6.28 mg/L, 4 h, > 1.7

mg/L/4 hr

Skin Irritation: Rabbit: Non irritant, Slightly irritatingEye Irritation: Rabbit: Mildly irritant, Slightly irritatingSkin Sensitization: Guinea pig : Not a skin sensitizer in

animals tests

Slightly irritating

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12. ECOLOGICAL INFORMATION

For Technical- for mallard ducks LD50 46 mg/kg

Bird : LD50 for mallard ducks >2150 mg/kg

Fish : LC50 (96 h) for Carp 6.8 mg/L,

LC50 (96 h) - 0.083 mg/L

Daphnia : EC50 (48 h) 0.08 mg/L, NOEL – 9.8 μg/L;

LOEL - 20 µg/L

Bees : Dangerous to bees, Dangerous to bees.

13. DISPOSAL CONSIDERATIONS

Disposal : This material must be disposed of as a Hazardous Waste.

Disposal should be in accordance with local, nation or state

rule and regulations.

Disposal of

empty

Containers

Break, crush, or puncture and deliver empty packaging for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. DO NOT burn empty

containers or product.

14. TRANSPORT INFORMATION

Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S

UN No. : 3077, 3082

Class : 9 Packing group : III

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15. REGULATORY INFORMATION

Hazard symbol



Dangerous for the environment (N)

Risk Phrase R 23/25: toxic by inhalation and if swallowed.

R 51/53: Toxic to aquatic organisms, may cause long term adverse

effects in the aquatic environment.

Safety S2 - Keep out of the reach of children phrase S36 - Wear suitable protective clothing

S53-Avoid exposure— obtain special instructions before use

S60 - This material and its container must be disposed of as

hazardous waste

S64 - If swallowed, rinse mouth with water (only if the person is

conscious)

16. OTHER INFORMATION

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are resented in good faith and believed to be correct. This information applies to the PRODUCT AS SUCH. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produces formulations containing this product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS. Accordingly, no guarantee or warrantee expressed or implied is made by HPM Chemicals & Fertilizers Ltd., as to the results to be obtained based upon the user's use of the information, nor does HPM Chemicals & Fertilizers Ltd., assume any liability arising out of user's use of the information.

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