

# MATERIAL SAFETY DATA SHEET

## **SECTION 1 - IDENTIFICATION OF PRODUCT AND COMPANY**

Pfizer IncEmergency telephone1-866-531-8896Pfizer Animal HealthHours of operation24 Hours235 East 42nd StreetTelephone1-800-366-5288

New York, NY 10017

Product name Equimax®

Chemical family Pyrazinoisoquinoline derivative/ Avermectin macrocyclic lactone

Therapeutic use Anthelmintic/ Antiparasitic

**Description** Odorless, white, thick, smooth paste

#### **SECTION 2 - COMPOSITION**

 Ingredient
 CAS Number
 Amount

 Praziquantel\*
 55268-74-1
 14.03%

 Ivermectin\*
 70288-86-7
 1.87% \*\*

 Proprietary Ingredients
 Not assigned
 84.1%

\*Hazardous

Note: Ingredient(s) indicated as hazardous have been assessed under standards

for workplace safety. The ingredients in this formulation are being held as trade secret. In the event of a medical emergency or for use of this MSDS outside the United States, contact the emergency telephone number listed

in Section 1 for ingredient information.

\*\* Ivermectin is a mixture of Ivermectin component  $B_{1\alpha}$  (70161-11-4) and

Ivermectin component B<sub>1B</sub> (70209-81-3)

#### **SECTION 3 - HAZARDS IDENTIFICATION**

Signal word WARNING!

Statements of hazard TOXIC IF SWALLOWED

POSSIBLE RISK OF HARM TO THE UNBORN CHILD

**Eye effects** May cause irritation based on components.

**Skin effects** May cause irritation based on components.

**Inhalation effects** Not expected due to physical form.

**Ingestion effects** May be harmful if swallowed. See 'Statements of hazard', 'Known clinical

effects', and/or 'Other potential health effects' in this section.

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# SECTION 3 - HAZARDS IDENTIFICATION ... continued

**Known clinical effects** Adverse effects most frequently reported with the use of praziquantel

include headache, diarrhea, dizziness, drowsiness, weakness, abdominal discomfort, nausea, and vomiting. Adverse effects associated with the clinical use of ivermectin may include joint or muscle pain, dizziness, fever, headache, skin rash, itching, fast heartbeat, and swelling of face or

extremities.

Other potential health

effects

Animal studies with ivermectin have shown a potential to cause adverse

effects on the fetus.

NOTE: This document has been prepared in accordance with standards for

workplace safety, which require the inclusion of all known hazards of the

product or its ingredients regardless of the potential risk. The

precautionary statements and warnings included may not apply in all cases. Your needs may vary depending upon the potential for exposure in

your workplace.

#### **SECTION 4 - FIRST AID MEASURES**

Skin Remove clothing and wash affected skin with soap and water. This

> material may not be completely removed by conventional laundering. Consult professional laundry service. Do not home launder. If irritation

occurs or persists, get medical attention.

Eyes Immediately flush eyes with water for at least 15 minutes. Get medical

attention. If irritation occurs or persists, get medical attention.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. Get

medical attention immediately.

**Ingestion** Get medical attention immediately. Do not induce vomiting unless directed

by medical personnel. Never give anything by mouth to an unconscious

person.

## **SECTION 5 - FIRE FIGHTING MEASURES**

Fire fighting instructions Wear approved positive pressure, self-contained breathing apparatus and

full protective turn out gear. Evacuate area and fight fire from a safe

distance.

**Extinguishing media** Water spray, carbon dioxide, dry chemical or foam.

Flash point No data available

**Hazardous combustion** 

products

Carbon monoxide and carbon dioxide

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#### SECTION 6 - ACCIDENTAL RELEASE MEASURES

**General** Review Sections 3, 8 and 12 before proceeding with clean up.

**Small spill** Use non-combustible material to absorb spill; then place in a suitable,

labeled recovery container. Clean spill area thoroughly. Prevent discharge

to drains.

Large spill Collect spill with a non-combustible absorbent material. Transfer all waste

to a labeled container and move it to a secure holding area. Prevent

discharge to drains.

# **SECTION 7 - HANDLING AND STORAGE**

General handling Use only in a well-ventilated area. Avoid contact with eyes, Avoid contact

with skin and clothing. Wash thoroughly after handling.

**Storage conditions** Store in a cool, dry, well-ventilated area. Protect from light. Keep

container tightly closed when not in use.

Temperature range for storage

<30°C (<86°F)

#### SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

**Ventilation** Engineering controls should be used as the primary means to control

exposures. Good general ventilation should be sufficient to control

airborne levels. Local and general ventilation should be used as necessary,

when handling this material in bulk.

**Respiratory protection** Respiratory protection is recommended as a precaution to minimize

exposure when handling this material in bulk.

**Eye protection** Safety glasses or goggles

**Skin protection** Use protective clothing (uniforms, lab coats, disposable coveralls, etc.) in

both production and laboratory areas.

**Hand protection** Rubber gloves

## **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Physical form Paste

Color White

Odor Odorless

Molecular weight Mixture

Molecular formula Mixture

# SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ... continued

pН Not applicable

**Boiling point** Not applicable

Not applicable **Melting point** 

No data available **Density** 

No data available Vapor pressure

No data available Water solubility

**Solvent solubility** No data available

# **SECTION 10 - STABILITY AND REACTIVITY**

Reactivity Stable

None known Conditions to avoid

**Incompatibilities** None known

Hazardous Thermal decomposition products may include carbon monoxide and

decomposition carbon dioxide

products

Hazardous

polymerization

Will not occur

**Toxicology summary** The information included in this section describes the potential hazards of

the active ingredients.

**Acute toxicity** 

Compound Route **Species** Result **Type** Praziquantel  $LD_{50}$ 2840 mg/kg Oral Rat Ivermectin  $LD_{50}$ Oral Rat 10 mg/kg

Eye May cause eye irritation based on components.

Skin May cause skin irritation based on components.

Inhalation No data available

**SECTION 11 - TOXICOLOGY INFORMATION** 

**Ingestion** See Acute toxicity table.

Mutagenicity Praziquantel was not mutagenic in a number of mammalian cell assays.

Ivermection showed no evidence of mutagenic activity in bacterial or

mammalian cells in vitro.

Subchronic effects No data available

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# SECTION 11 - TOXICOLOGY INFORMATION ... continued

Chronic effects/ Long term carcinogenicity studies with praziquantel in rats and carcinogenicity

golden hamsters did not reveal any carcinogenic effect.

None of the components of this formulation are listed as a carcinogen by Carcinogen status

IARC, NTP or OSHA.

Reproduction studies have been performed in rats and rabbits at doses up Reproductive effects

> to 40 times the human dose and have revealed no evidence of impaired fertility or harm to the fetus due to praziquantel. An increase of the abortion rate was found in rats at three times the single human therapeutic dose. Ivermectin had no adverse effects on the fertility in rats in studies at repeated doses of up to 3 times the maximum recommended human dose of

200 µg/kg.

**Teratogenicity** Praziquantel did not cause teratogenicity in rats, mice, or rabbits.

> Ivermectin has been shown to be teratogenic in rats, rabbits, and mice at or near maternotoxic dose levels. Mice are the most sensitive species to the effects of ivermectin with maternotoxicity at a dose of 200 µg/kg/day and

teratogenicity at 400 µg/kg/day. In rabbits 6000 µg/kg/day was

maternotoxic and teratogenic, and teratogenicity was also evident at a dose

of 3000 µg/kg/day. The threshold for both maternotoxicity and

teratogenicity in rats was 10,000 µg/kg/day.

#### **SECTION 12 - ECOLOGICAL INFORMATION**

**Environmental overview** As with other members of the avermectin family, ivermectin is highly

> toxic to fish and certain aquatic organisms. However, once in contact with soil, it is tightly bound and does not readily desorb. It is unlikely to reach

> Avermectin compounds may bind tightly to soil upon contact and become

groundwater and is also biodegradable by soil microflora.

Mobility, persistence,

and degradability:

**Bioaccumulation and** 

toxicity:

See aquatic toxicity data, below.

inactive over time.

**Aquatic toxicity** 

**Compound Species** Result <u>Type</u>

Rainbow Trout 0.000025 mg/L Ivermectin LC50/48h

# **SECTION 13 - DISPOSAL INFORMATION**

Disposal procedure Incineration is the recommended method of disposal for this material.

Observe all local and national regulations when disposing of this mixture.

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#### **SECTION 14 - TRANSPORTATION INFORMATION**

**General shipping** This material is regulated for transportation as a hazardous

**instructions** material/dangerous good. Non-regulated in non-bulk packagings

transported by motor vehicles, rail cars or aircraft (49CFR 171.4(c)).

IMDG proper shipping

name

Environmentally hazardous substance, solid, n.o.s. (ivermectin), Marine

**Pollutant** 

**IMDG Identification No.** UN 3077

IMDG hazard class 9

IMDG packing group III

## **SECTION 15 - REGULATORY INFORMATION**

**EU Classification** Toxic; Dangerous for the Environment

EU Labelling T

EU Label Pictogram(s)



**Risk phrases** R25 - Toxic if swallowed.

R52/53 - Harmful to aquatic organisms, may cause long-term adverse

effects in the aquatic environment.

**Safety phrases** S36/37 - Wear suitable protective clothing and gloves.

S45 - In case of accident or if you feel unwell seek medical advice

immediately (show the label where possible).

S61 - Avoid release to the environment. Refer to special instructions/safety

data sheets.

Canadian WHMIS Class D, Division 1, Subdivision A

Class D, Division 2, Subdivision A

# **SECTION 16 - OTHER**

Disclaimer Pfizer Inc believes that the information contained in this Material

Safety Data Sheet is accurate, and while it is provided in good faith, it

is without a warranty of any kind, expressed or implied.