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Date Issued 10/Jun/2009

MATERIAL SAFETY DATA SHEET Bayticol 2% EC *

Company Details

Name

Bayer (Pty) Ltd Animal Health Div

Address

27 Wrench Road

Isando 1600

South Africa

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1. Product and Company Identification:

Trade / Commercial Name

Bayticol 2% EC*

Chemical Name

environmentally hazardous substance, liq, NOS

Formula

Chemical Family

Pyrethroid Insecticide

Synonyms

Un No ERG No. 3082

Hazchem Code

3xe

171

EAC

31

3. Hazards Identification:

Harmful by inhalatin and if swallowed

Risk of serious damage to eyes

Irritating to skin

Harmful: May cause lung damage if swallowed.

Repeated exposure may cause skin dryness or cracking.

Very toxic to aquatic organisims, may cause long term advserse effects in the

aquatic environment/

3.Composition:

Hazardous Components

Contains:

Flumethrin

Weight 2%

CAS No.: 69770-45-2 Index No.: -

Hazard Symbols T,N□EINECS No.: 274-110-4

R-phrases 25-50/53

Isobutanol

Weight <5%

CAS No: 78-83-1 Index No.: 603-108-00-1 Hazard Symbol: Xi□□EINECS No.: 201-148-0

R-phrases 10-37/38-41-67

Tetrapropylene benzene sulphonate Ca Salt

Weight <5%

CAS No: 11117-11-6 Index No.: -

Hazard symbol C□□EINECS No.: 234-360-7

R-phrases: 21-34-52/53

Solventnaptha Weight %: >25% Hazard symbols Xn, N R-phrases 51/53-65-66

4.First Aid Measures



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First Aid Skin

GENERAL INFORMATION:

Remove patent from danger zone. If there is risk of unconciousness, position and transport in stable lateral

position. Remove soiled or soaked clothing imediately.

Following skin contact:

Wash skin with copius amounts of soap and water

First Aid Eyes

First Aid Ingested

Flush eyes with water for 20 minutes.

Hold eyelids open while washing. Consult eye specialist.

Do not induce vomiting

Seek immediate medical treatment.

INFORMATION FOR THE PHYSICIAN:

The active ingredient contained in this product belongs to the pyrethroid insecticide group.

Treatment: Basic First aid, decontamination, and symtomatic treatment.

First Aid Inhalation

Move victim to fresh air.

If not breathing give artificial respiration.

If breathing of victim is difficult administer oxygen for a maximum period of one hour.

Call a doctor immediately

5.Fire Fighting Measures

Extinguishing media:

Sprayed water jet, extinguishing powder, foam CO2 sand

Combustion gases:

In case of fire: hydrogen chloride, hyrdogen cynanide, hydrogen fluoride, carbon monoxide

and nitrogen oxides may develop.

Firemen should wear self contained breathing apparatus.

Fire quenching water should be collected.

6.Accidental Release Measures

Full protective clothing including breathing apparatus

Contain (avoid spillage from entering drains or water courses)

PRECAUTIONS:

Restrict access to area.

Provide adequate protective equipment and ventilation.

Remove sources of heat and flame.

Notify occupational and environmental authorities.

SPILL OR LEAK:

Do not touch or walk through spilled material.

Stop leak if you can do it without risk.

Small Spills

Take up with sand or other noncombustible absorbent material and place into containers for later disposal.

Large Spills

Dike far ahead of liquid spill for later disposal.

Prevent entry into waterways, sewers, basements or confined areas.

Use water and detergents to clean floors and contaminated objects

7. Handling And Storage

Storage in the same room or space is prohibited with the following classes:

The rooms or spaces should be at least 10M apart.

Explosives

All information is given in good faith but without guarantee in respect of accuracy and no responsibility is accepted for errors or omissions or the consequences thereo

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Only handle product with local exhaust ventilation.

Prevent entry into waterways, sewers, basements or confined areas.

Precautions should be taken against electrostatic charges

Vapours can form explosive mixtures with air.

Store away from food ,feed children and uninformed persons.

Store below 25 deg C. VCI Storage class 3B

8. Exposure Controls/Personal Protection

Occupational Exposure Limits When handling this product ensure adequte ventilation and provide as

extraction:

Information regarding Isobutanol:
MAK Value 100 ppm (310 mg/m3)

Peak concentration limit according to Category: = 1 =

There is no danger of impaired fertility provided that the OEL is

observed.

<u>Controls</u> The control measures appropriate for a particular worksite depend

on how this material is used and on the extent of exposure. The best protection is to enclose operations and/or provide local exhaust ventilation at the site of chemical release.

Use a non-sparking, grounded ventilation system separate from other

exhaust ventilation systems. Exhaust directly to the outside. Supply sufficient replacement air to make up for air removed.

Have a safety shower/eye wash fountain readily available in the immediate work area

Personal Protection Recommended respiratory protection: Full mask with ABEK filter

Eye Protection: Goggles

Hand Protection: Prorective gloves for chemicals made of niitrile rubber.

Information regarding Naptha:

(Breakthrough time >480 min DIN EN 374-3

9. Physical & Chemical Properties

Form: □□Liquid clear Colour: □□Brown

Odour: Slight characteristic smell

pH: Value□□Neutral

Melting Point: □No statements available Solidyfying Point: □221 oC (Solventnaptha) Vapour Pressure: □1 mbar (Solventnaptha)

Density: □ □1.013 g/cm3 at 20 deg C

Flash point: ☐ 66 dec C

Ignition Temperature: No statements available

Explosive limits:

Upper explosive limit: 6% (Solventnaptha) Lower explosive limit 1% (Solventnaptha)

10.Stability And Reactivity

Conditions to Avoid

Stable.

Incompatible Materials

Keep away from iron. Corrosion of unprotected metal is possible

Other 1

Protect from heat

Hazardous decomposition products

Formation of In case of fire: hydrogen chloride, hydrogen cynanide, hydrogen fluoride, carbon monoxide

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and nitrogen oxides may develop druing thermal decomposition.

11. Toxicological Information

Acute toxicity:

LD50 oral rat: > 500 - < 1000 mg/kgLD50 dermal rat: >5000 mg/kg Irritation of skin/rabbit: irritant

Irritant to the mucous membranes/rabbit: irritant

12.Ecological Information

Fish toxicity:

LC50: 2.83 mg/l (96h); trout (oncorhynchus mykiss) (OECD No. 203)

Toxicity or Daphnia:

EC50: 0.045 mg/l (48h); Water flea (Daphnia magna) (OECD No. 202)

Toxicity for algae:

Increase of the biomass:

IC50: 4.16 mg/l (96 h) Green algae (Desmodesmus subspicatus)

Growth rate

IC50: 11.35 mg/l (96 h) Green algae (Desmodesmus subspicatus)

13.Disposal Considerations

Disposal Method Product

Choose a specific site where excess fluids may be dumped. This site must not be on the top of a hill and should be at least 100 m away from boreholes and water courses.

Ensure that the area of the site is sufficient. Eg: 0.5 ha for a dip tank of 15 000 litres capacity.

The site should be away from habitation, and not in a general thoroughfare. It should be properly fenced

off and clearly identified by warning signs. The gate must be kept locked.

Disposal Method Packaging

Rinse empty container three times with a volume of water equal to at least one tenth of that of the container and add the rinsings to the contents of the dip. Thereafter perforate and flatten the container, and bury it in an area reserved for this purpose as described above, under the section entitled Disposal method product

14. Transport Information

UN No

3082

Hazchem Code

3xe

ERG No.

171

EAC

31

IMDG-Shipping Name

ADR/RID Hazard ID No

9

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

IMDG Code

9

IMDG-Packaging Group

Ш

Marine Pollutant

Yes

Class

Class: 9

Miscellaneous Group: III

Subsidiary Risks None

15.Regulatory Information

EEC Hazard Classification

Risk Phrases

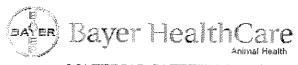
Danger of cumulative effects

R20/22: Harmful by inhalation and if swallowed.

R41: □Risk of serious damage to eyes.

R38: □Irritating to skin

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R65: ☐ Harmful: May cause lung damage if swallowed.

R66: Repeated exposure may cause skin dryness and cracking

R50/53: Very toxic to aquiatic organisims, may cause long term adverse effects in the aquatic

environent

Safety Phrases

S62:□If swallowed do not induce vomiting: seek medical advice immediately

□and this container or label S39: □Wear eye/face protection

S26: In case of contact with eyes, rinse immediately with plenty of water and

□seek medical advice.

S29: □Do not empty into drains

S61: □ Avoid release to the environment. Refer special instructions/Safety data sheet.

National Legislation

16.Other Information

Reason for Alteration: General update. Revision 1 Revision Date: 13 March 2007

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properness of the product.

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