Date of Issue: August 26th 2010



1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name Sportak® Fungicide

Other names None

Product codes and 4208411 (1 L)

pack sizes

Chemical group Imidazole

Recommended use Fungicide for agricultural use Formulation Emulsion, oil in water (EW)

Supplier Bayer CropScience Pty Ltd ABN 87 000 226 022

Address 391 - 393 Tooronga Road, East Hawthorn

Victoria 3123, Australia

Telephone (03) 9248 6888 **Facsimile** (03) 9248 6800

Websitewww.bayercropscience.com.auContactDevelopment Manager (03) 9248 6888

Emergency

Telephone Number 1800 033 111 – Orica SH&E Shared Services

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HAZARDOUS SUBSTANCE (See risk phrase below) – DANGEROUS GOOD VERY TOXIC TO AQUATIC ORGANISMS

Hazard classification Hazardous (National Occupational Health and Safety Commission - NOHSC)

Risk phrases R22 – Harmful if swallowed.

Safety phrases See Sections 4, 5, 6, 7, 8, 10, 12, 13

ADG classification See Section 14.

SUSDP classification

Schedule 6 (Standard for the Uniform Scheduling of Drugs and Poisons)

(Poison Schedule)

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Concentration (g/L)
Prochloraz	[67747-09-5]	450
o-sec-Butyl phenol	[89-72-5]	140
1,2-propanediol	[57-55-6]	65
Other ingredients, including emulsifiers, solvents and water	(non hazardous)	475

Sportak Fungicide Page 1 of 6

Date of Issue: August 26th 2010



4. FIRST AID MEASURES

If poisoning occurs, immediately contact a doctor or Poisons Information Centre (telephone 13 11 26), and follow the advice given. Show this Material Safety Data Sheet to the doctor.

Inhalation If inhaled move to fresh air and keep at rest. Obtain medical advice if symptoms persist.

Skin contact Carefully remove contaminated clothing. Wash affected areas with soap and water. Seek

medical aid if symptoms persist.

Eye contact Rinse eyes immediately with plenty of clean water and obtain medical advice.

Ingestion Wash out mouth with water. Do NOT induce vomiting. Keep patient at rest and seek medical

advice as above.

First Aid Facilities Ensure eyewash and shower facilities are available.

Medical attention Local contamination:

Symptoms: Slight skin and eye irritation; irritation of mucous membranes.

Treatment: Initial treatment should be symptomatic and supportive after decontamination.

Systemic poisoning:

Symptoms: gastrointestinal irritation and possible liver damage.

For systemic poisoning initial treatment should be symptomatic and supportive. If a large

amount of this product is ingested the following measures should be considered:

Monitor liver and central nervous system function.

Gastric lavage with charcoal administration, if less than 1 hour after ingestion. Further

treatment, if necessary.
There is no specific antidote.

Recovery is expected to be spontaneous.

5. FIRE FIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical, carbon dioxide. Do not use a high volume

water jet.

Hazards from combustion products

Dangerous gases may be evolved in a fire.

Precautions for fire

fiahters

This product is a combustible liquid. Fire fighters should wear full protective gear, including self-contained breathing apparatus (AS/NZS 1715/1716). Keep unnecessary people away. If it can be done safely, remove intact containers from the fire. Otherwise, spray unopened containers with water to keep cool. Bund area with sand or earth to prevent contamination of

drains or waterways. Dispose of extinguishing agent and spillage safely later.

Hazchem code 3Z

Sportak Fungicide Page 2 of 6

Date of Issue: August 26th 2010



6. ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled material or contaminated surfaces. Extinguish possible ignition sources. Do not smoke, eat or drink during the clean up process. Wear personal protective clothing and equipment as detailed in Section 8 PERSONAL PROTECTION. Keep people and animals away. Contain spill and absorb with earth, sand, clay, or other absorbent material. Prevent spilled material from entering drains or watercourses. Collect and store in properly labelled drums for safe disposal. Clean floor with a damp cloth and place it in the drum. Seal drums and label ready for safe disposal. Deal with all spillages immediately. If contamination of drains, streams, watercourses etc. is unavoidable, warn the local water authority.

7. HANDLING AND STORAGE

Handling Keep out of reach of children. Product is poisonous if swallowed. Will irritate the eyes and skin.

Avoid contact with eyes and skin. If product on skin, immediately wash area with soap and water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves and contaminated clothing. Keep away

from sources of ignition. Vapours may form an explosive mixture with air.

Storage Store in the closed, original container in a cool, well ventilated, secure area. Do not store for

prolonged periods in direct sunlight. Protect the product from frost.

Flammability The product is a combustible liquid, Class C1, i.e. flash point is between 61 and 150 °C.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure standards The applicable NOHSC exposure standards are:

Propane-1,2-diol:

Vapour and particulates - TWA 150 ppm, 474 mg/m³

Particulates only - TWA 10 mg/m³

o-sec-Butyl phenol:

TWA 5 ppm, 31 mg/m³ Skin notation

Definitions

Exposure standard – Time Weighted Average (TWA) means the average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day

working week.

Skin notation – Absorption through the skin may be a significant source of exposure.

Biological limit

values

None allocated

Engineering controls Control process conditions to avoid contact. Use local exhaust ventilation indoors. Use in a well-

ventilated area only.

Personal Protective

Equipment

Eyes: Safety goggles if exposure is possible

Clothing: Cotton overalls buttoned to the neck and wrist to avoid skin contact

Gloves: Elbow-length PVC or nitrile gloves

Respiratory: Not normally required. If inhalation of product is likely, an AS/NZS 1715/1716

approved respirator should be worn.

Sportak Fungicide Page 3 of 6

Date of Issue: August 26th 2010



PHYSICAL AND CHEMICAL PROPERTIES

Off-white liquid Appearance:

Odour: Faint pH: Not available Vapour pressure: Not available Vapour density: Not available **Boiling point:** Not available

Freezing/melting

Not available point: Solubility: Miscible with water

Approximately 1.13 g/mL at 20° C Density:

Flash Point: > 95 ° C, closed cup

Flammability

(explosive) limits: Not available

Auto-ignition

temperature: Not available

Partition coefficient

(octanol/water): Prochloraz: Log $P_{ow} = 4.38$

10. STABILITY AND REACTIVITY

Chemical stability Stable under normal conditions of storage and use.

Conditions to avoid Extremes of temperature and direct sunlight.

Incompatible

materials

None

Hazardous decomposition Dangerous gases may be evolved in a fire.

products

Hazardous reactions None

11. TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

Inhalation This product is expected to have low toxicity by inhalation.

Skin contact Will irritate the skin. Sportak was not a skin sensitiser in the guinea pig test.

Eye contact Will irritate the eyes.

Ingestion Harmful if swallowed.

Page 4 of 6 Sportak Fungicide

Date of Issue: August 26th 2010



11. TOXICOLOGICAL INFORMATION - continued

ANIMAL TOXICITY DATA - PRODUCT

Acute:

Oral toxicity LD₅₀ rat: > 2000 mg/kg

Dermal toxicity LD₅₀ rat: > 4000 mg/kg

Inhalation toxicity Not available

Skin irritation Slightly irritating (rabbit)

Eye irritation Slightly irritating (rabbit)

Sensitisation Non sensitising (guinea pig)

Chronic:

Prochloraz is not mutagenic, carcinogenic or teratogenic. Ingestion of excessive amounts by pregnant animals resulted in maternal and foetal toxicity. Chronic exposure may cause damage to the central nervous system and liver.

12. ECOLOGICAL INFORMATION

Very toxic to aquatic organisms. Low toxicity to birds, bees and earthworms.

DO NOT contaminate streams, rivers, or waterways with Sportak or the used containers.

Ecotoxicity Prochloraz:

Fish toxicity: LC₅₀ (96 h) rainbow trout (Onchorhynchus mykiss) 1.5 mg/L

LC₅₀ (96 h) bluegill sunfish 2.2 mg/L

Daphnia toxicity: EC₅₀ (48 h) water flea (Daphnia magna) 4.3 mg/L

Algal toxicity:

EC₅₀ (72 h) algae (Selenastrum capricornutum) 0.094 mg/L

Bird toxicity:

Acute oral LD_{50} mallard duck > 1954 mg/kg Acute oral LD_{50} bobwhite quail 662 mg/kg

Sportak Fungicide:

Fish toxicity: LC₅₀ (96 h) rainbow trout (Oncorhynchus mykiss) 4.41 mg/L (similar formulation)

Daphnia toxicity: EC₅₀ (48 h) water flea (Daphnia magna) 7.21 mg/L Toxicity to algae: EC₅₀ (72 h) algae 0.026 mg/L (similar formulation)

Environmental fate, persistence and degradability, mobility

Prochloraz is readily adsorbed onto organic matter and is degraded by biological activity and by sunlight. Prochloraz is immobile in soil, not readily degradable and not readily leached. DT_{50}

under field conditions is 5-37 days.

Bioaccumulation - prochloraz

Oncorhynchus mykiss (rainbow trout) Bioconcentration factor (BCF): 200

Elimination: yes

Sportak Fungicide Page 5 of 6

Date of Issue: August 26th 2010



13. DISPOSAL CONSIDERATIONS

Containers

Rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. Dispose of at a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

Spent fruit dip/spray

Sportak is readily adsorbed onto organic matter and is degraded by biological activity and by sunlight. Dispose of spent fruit dip in a disposal pit specifically marked and set up for the purpose. The addition of activated carbon, soil, manure or humus sludge will assist the degradation.

14. TRANSPORT INFORMATION

UN number UN 3082

Proper shipping ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (contains prochloraz)

name

Class and Class 9

Subsidiary Risk

Packing Group III

Hazchem code •3Z Marine Pollutant Yes

Note for Road andAccording to AU01, Environmentally Hazardous Substances in packagings, IBCs or any other receptacle not exceeding 500 kg or 500 L are not subject to the ADG Code

15. REGULATORY INFORMATION

Registered according to the Agricultural and Veterinary Chemicals Code Act 1994

Australian Pesticides and Veterinary Medicines Authority approval number: 30484 See also Section 2.

16. OTHER INFORMATION

Trademark Sportak® is a Registered Trademark of Bayer.

information

Preparation Replaces November 27th 2009 edition. Reasons for revision: Hazard identification.

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

END OF MSDS

Sportak Fungicide Page 6 of 6