

Material Safety Data Sheet

Product: Epoxiconazole 125g/L SC

Section 1-Chemical Product and Company Identification

Product Name: Epoxiconazole 125g/L SC
 Product Type: Fungicide
 Recommended Use For the control of certain fungal diseases including stripe rust of wheat and specified fungal diseases of barley.

Section 2-HAZARDS IDENTIFICATION

Hazard Classification Classified as hazardous
 HAZARDOUS SUBSTANCE.
 NON-DANGEROUS GOODS.
 Hazard classification according to the criteria of NOHSC.
 Dangerous goods classification according to the Australia Dangerous Goods Code.
Risk Phrase(s) Classified as hazardous
 R40(3) Possible risk of irreversible effects.
 R61(1) May cause harm to the unborn child
 R62 Possible risk of impaired fertility.
Safety Phrase(s) S13 Keep away from food, drink and animal feeding stuffs.
 S2 Keep out of reach of children.
 S36/37 Wear suitable protective clothing and gloves.

Section 3-COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion
	Epoxiconazole	135319-73-2	125g/L
	Other Ingredient		Make up to 100%

Section 4-FIRST AID MEASURES

Inhalation	Remove affected person to fresh air until recovered. If symptoms develop or persist, seek medical advice.
Ingestion	Rinse mouth and then drink plenty of water.
Skin	Wash affected areas thoroughly with soap and water. Remove contaminated clothing and launder before re-use.

Eye

If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes.

Seek medical advice.

First Aid Facilities

If poisoning occurs, contact a doctor.

Advice to Doctor

Treat symptomatically.

If vomiting occurs, solvent and surfactants present may cause pulmonary pneumonitis.

Section-5 FIRE FIGHTING MEASURES

Suitable Extinguishing Media

If involved in a fire, the product will not burn.

Choose extinguishing media to suit the burning material.

Hazards from Combustion Products

If involved in a fire, the dehydrated components may emit oxides of carbon, oxides of nitrogen, hydrogen chloride and hydrogen flouride.

Special Protective Equipment for fire fighters

Breathable air apparatus should be worn when fighting a fire in which this product is involved.

Emergency Action in case of Fire

If exposed to fire, keep container cool by spraying with water.

Other Information

Stop fire water from entering drains or water bodies.

Section-6 ACCIDENTAL RELEASE MEASURES

Spills & Disposal

Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite).

Collect spilled material and waste in sealable open-top type containers for disposal.

Personal Protection

For appropriate personal protective equipment (PPE), refer Section 8.

Environmental Precautions

Prevent from entering drains, waterways or sewers.

Use earthen bunds or absorbent bunding to prevent spreading of spillage.

Section-7 HANDLING AND STORAGE

Precautions for Safe Handling

Do NOT contaminate dams, rivers or streams, or any other water bodies with chemical or used containers.

Conditions for Safe Storage

Other Information

Store in the closed, original container in a dry, cool well ventilated area out of direct sunlight. Always read the label and any attached leaflet before use.

Section-8 EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards

The manufacturer of the solvent has recommended an occupational exposure limit of 100 mg/m³; 15ppm TWA, as total hydrocarbon.

Engineering Controls

Handle in well ventilated areas, generally natural ventilation is adequate.

Personal Protective Equipment

When opening the container, preparing the spray and using the prepared spray wear protective waterproof clothing, elbow-length PVC gloves, water resistant footwear and full-facepiece respirator (or goggles and half facepiece respirator).

Re-entry period: Do not enter treated area until spray has dried.

Hygiene Measures

After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

After each day's use, wash contaminated clothing and safety equipment.

Requirements Concerning Special

NSW regulations require that people who use pesticides

Training

In their job or business must have training in the application of the materials.

Section-9 PHYSICAL AND CHEMICAL PROPERTIES

Form

Liquid

Appearance

Clear beige liquid

Odour

Slight aromatic odour

Solubility in Water

Disperses in water.

Specific Gravity

1.02 - 1.08

Vapour Pressure

<0.01 mPa @ 20°C for epoxiconazole

Volatile Component

50%

Octanol/Water Partition Coefficient

Kow Log P is 3.44 (pH7) for epoxiconazole

Flammability
Auto-Ignition Temperature

Combustible liquid C2.
420°C

Section-10 STABILITY AND REACTIVITY

Auto-Ignition Temperature
Chemical Stability
Hazardous Reactions
Hazardous Polymerization

420°C
Stable under normal conditions.
Keep away from strong oxidising agents.
Hazardous polymerisation is not possible.

Section-11 TOXICOLOGICAL INFORMATION

Toxicology Information

No harmful effects are expected if the precautions on the label and this MSDS are followed.

Inhalation

Breathing in high concentrations of vapours or aerosols of this material may cause headache, nausea, dizziness and weakness.

Ingestion

Low toxicity. However, swallowing large amounts of concentrate may cause nausea and vomiting.

Skin

Prolonged contact with the concentrate may cause irritation.

Eye

Will irritate the eyes.

Reproductive Toxicity

Regarded as causing developmental toxicity in humans based on strong presumption from studies on rats and rabbits.

Possible risk of impaired fertility based on small but significant effects on reproduction in a 2nd generation study of rats.

Carcinogenicity

Worksafe Australia has classified epoxiconazole in the occupational environment as a Carcinogen Category 3 substance. This means that the substance is not classifiable as to carcinogenicity to humans.

Acute Toxicity-Oral

LD₅₀ (rat) >2200 mg/kg for the formulated product

Acute Toxicity-Dermal

LD₅₀ (rat) >2000 mg/kg for the

Acute Toxicity-Inhalation

formulated product

Eye Irritation

LC₅₀ (rat) (4hr) >3.26 mg/l for the formulated product

Skin Irritation

Mild eye irritant.

Skin Sensitisation

Mild skin irritant.

Product is not a skin sensitiser.

Section-12 ECOLOGICAL INFORMATION

Known Harmful

The product is a marine pollutant for sea transport.

Effects on the Environment

Other Precautions

Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.

Environ. Protection

Spray drift can cause damage, read the label for more information.

Acute Toxicity-Fish

The following is data for a similar product.

Acute Toxicity-Daphnia

Toxic to fish. LC₅₀ (96hr) for rainbow trout is 0.5 mg/l.
LC₅₀ (48hr) for daphnia is 1.8 mg/l for the formulated product.

Acute Toxicity- Organisms

The following data is for the active ingredient, epoxiconazole.

Birds: Not toxic to birds. LD50 for quail is >2000 mg/kg

Bees: Not toxic to bees. LD50 >100 µg/bee.

Section-13 DISPOSAL CONSIDERATIONS

Product Disposal

On site disposal of the concentrated product is not acceptable. Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic collections of unwanted chemicals.

Container Disposal

Do not use this container for any other purpose. Triple rinse containers, add rinsate to the spray tank, then offer the container for recycling/reconditioning, or puncture top, sides and bottom and dispose of in landfill in accordance with local regulations.

If on-site container disposal is necessary, triple rinse empty container with water, add rinsate to the

spray tank. Puncture top, sides and bottom, crush and bury in an approved landfill or bury with at least 500 mm of soil cover away from pasture and crop areas, water supplies and houses. Empty containers and product should not be burnt.

Section-14 TRANSPORT INFORMATION

Transport Information

It is good practice to separate this product from food, food related materials, animal feedstuffs, seed or fertilizers during transport.

Storage and Transport

Considered non dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail. Exempt from classification as a Dangerous Good in packs less than 3,000 kg or L as per ADG7, SP no. AU01. For bulk shipments as Class 9, use UN 3082, HazChem code •3Z.

UN Number

3082

IMO Class/Packing Group

Class 9; Packing Group III

IMO Proper

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

Shipping Name

(contains epoxiconazole and fatty alcohol alkoxylate)

Section-15 REGULATORY INFORMATION

Poisons Schedule

S5

Packaging & Labeling

CAUTION

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE
OPENING OR USING

Hazard Category

Toxic

AICS (Australia)

All of the components in this product are listed on the Australian Inventory of Chemical Substances.

Section-16 OTHER INFORMATION

The information presented herein is based on available data from reliable sources and we make no warranty, express or implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as



recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. We disclaim all liability for injury or damage stemming from any improper use of the material or product described herein.

For and on Behalf of
PSYCHEMICALS CO. LIMITED
禾成化學有限公司

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Authorized Signature(s)