

Material Safety Data Sheet

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Infosafe No. 1BFNO Issue Date: January 2004 ISSUED by BASFANZ

Product Name: **Cosmos Insecticidal Seed Treatment**

Classified as hazardous according to criteria of NOHSC

COMPANY DETAILS

Company Name BASF Australia Limited (ABN 62 008 437 867)
Address 500 Princes Highway Noble Park
Victoria 3174 Australia
Emergency Tel. 1800 803 440 (24h)
Tel/Fax Tel: +61 3 9212 1500 Fax: +61 3 9212 1511
Other Information BASF New Zealand Ltd
38 Mahunga Drive Mangere Bridge
Auckland New Zealand
Phone: +64 9 633 0200
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Emergency advice: 0800 944 955 (24h)
National Poisons Centre - 24 hour Urgent Information: 0800 764 766
National Poisons Centre - Non-Urgent Information: +64 3 479 7248

IDENTIFICATION

Product Name Cosmos Insecticidal Seed Treatment
Proper Shipping Name PESTICIDES, LIQUID, TOXIC, N.O.S. - (CONTAINS FIPRONIL)
UN Number 2902
DG Class 6.1
Packing Group II
Hazchem Code 2X
Poisons Schedule S6
Product Use Agricultural insecticide for seed treatment.
Substance Chemical Family Phenyl pyrazole

Physical Data

Appearance Viscous red suspension with negligible odour.
Melting Point Not Available
Boiling Point Not Available
Vapour Pressure 2.8×10^{-9} mm Hg at 25C (technical fipronil)
Specific Gravity 1.225 g/mL at 20C
Flash Point >85C
Flamm. Limit LEL Not determined
Flamm. Limit UEL Not determined
Solubility in Water Dispersible, 1.9 mg/L at 20°C (technical fipronil)

Other Properties

pH Value 6.0-8.0

Ingredients

Ingredients	Name	CAS	Proportion
	Fipronil	120068-37-3	50 % w/v
	Other ingredients	(Non hazardous)	15-25 % w/v
	Water		to 100%

HEALTH HAZARD INFORMATION

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Symptoms and Effects No adverse health effects are expected if the product is handled in accordance with this Material Safety Data Sheet and the product label. Symptoms that may occur if the product is mishandled are respiratory difficulty, decreased reflexes, lethargy, tremors, and in severe cases, convulsions.

Health Effects

Acute - Swallowed Moderate acute oral toxicity
Acute - Eye Not an eye irritant.
Acute - Skin Not a skin irritant nor a sensitising agent. Low dermal absorption
Acute - Inhaled Moderate inhalation toxicity
Chronic Fipronil is not mutagenic and not teratogenic and is not considered to pose an increased risk of cancer to humans.
Other Information Symptoms of over exposure include respiratory difficulty, decreased reflexes, lethargy, tremors, and in severe cases, convulsions. Repeated exposure at dose levels that are not acutely toxic may result in symptoms of toxicity.

First Aid

Swallowed If swallowed, immediately contact a doctor or Poisons Information Centre (telephone 13 11 26), and follow the advice given. Keep under medical supervision.
Eye Rinse immediately with clean water, including under eyelids, for at least 15 minutes and obtain medical advice.
Skin Remove contaminated clothing. Wash affected areas with plenty of soap and water.
Inhaled If inhaled, remove to fresh air and obtain medical advice.
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 a doctor.
First Aid Facilities Ensure washing facilities are available.
Other Information DO NOT attempt to give anything to a semi-conscious or unconscious person.

Advice to Doctor

Advice to Doctor Fipronil is a reversible gamma-aminobutyric (GABA) receptor inhibitor. During intoxication it will induce neurological stimulation with possible convulsions. Treat symptoms. No specific antidote known. Phenobarbital, and to a lesser extent, benzodiazepines, have been shown experimentally to be effective in preventing convulsions induced by fipronil. Due to slow absorption of fipronil through the gut, symptoms of intoxication may be delayed several hours to one day. Absorption may be decreased by the use of gastric lavage, saline purgative and activated charcoal (possible enterohepatic recirculation). Continue monitoring - due to slow elimination of the compound.

Other Health Hazard Information

PRECAUTIONS FOR USE

Exposure Limits No exposure standard has been assigned by the National Occupational Health and Safety Commission (Worksafe Australia).
Eng. Controls Control process conditions to avoid contact. Use local exhaust ventilation during manufacture. Use in a well-ventilated area only.

Personal Protection

Respirator Type (AS 1716) Do not breathe vapour or spray.
Glove Type Elbow-length PVC gloves.
Clothing Cotton overalls buttoned to the neck and wrist (or equivalent clothing).

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Other Information Wash hands after use. After each day's use, wash gloves and contaminated clothing.

Flammability

Fire Hazards Not flammable.

SAFE HANDLING INFORMATION

Storage and Transport

Storage Precautions Keep out of reach of children. Store in the closed, original container in a cool, well-ventilated area. Do NOT store for prolonged periods in direct sunlight.

Transport The product is classified as a Dangerous Good under the Australian Code for the Transport of Dangerous Goods by Road and Rail: PESTICIDE, LIQUID, TOXIC, N.O.S. (contains fipronil), Class: 6.1, PG II, UN 2902. Must be stored and transported according to local, State/Territory and Federal regulations.

Proper Shipping Name PESTICIDES, LIQUID, TOXIC, N.O.S. - (CONTAINS FIPRONIL)

EPG Number 6A1

IERG Number 34

Packaging Method 5.9.6.1

Spills and Disposal

Spills & Leaks Dealing with spills and disposals may result in the potential for increased personal exposure. During such operations it is recommended that the following protective clothing is worn: cotton overalls buttoned to the neck and wrist and elbow-length PVC gloves. CONTAIN SPILL and absorb with absorbent material such as earth, sand or clay and store in properly labelled, sealed drums for safe disposal in an approved landfill, or bury under at least 500mm of soil in a non-crop, non-pasture area away from water sources or homes. DO NOT burn empty containers or product. Deal with all spillages immediately. Do NOT contaminate streams, rivers or waterways.

Disposal Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. Do NOT dispose of undiluted chemicals on-site. Wash sprayer thoroughly after use. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in 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.

Fire/Explosion Hazard

Fire Fighting Procedures Firefighters should wear full protective gear, including self-contained breathing apparatus (AS/NZS 1715, 1716). If possible and without risk, remove intact containers from exposure to fire. Otherwise, spray unopened containers with water to keep cool. Whenever possible, contain fire-fighting water by bunding area with sand or earth to prevent it entering any bodies of water.

Extinguishing Media Carbon dioxide, water spray, dry agent, foam.

Stability and Reactivity Stable under normal conditions of use. No dangerous reaction known under normal conditions of use. Avoid extreme heat and fire. Toxic thermal decomposition products may include oxides of carbon, sulphur and nitrogen and compounds of chlorine and fluorine.

Hazchem Code 2X

Other Information Neutralising chemicals: Hydrated lime.

OTHER INFORMATION

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Toxicology	Acute oral LD50: 290 mg/kg (rat) Acute percutaneous LD50: >2000 mg/kg (rat) Inhalation LC50 (4 hr): 0.26 mg/L (rat) Eye irritation: non irritant (rabbit) Skin irritation: non-irritant (rabbit) Sensitising potential (technical fipronil): non-sensitizing (guinea pig)
Information on Ecological Effects	(Technical Fipronil) Highly toxic to fish and aquatic organisms. DO NOT contaminate streams, rivers or waterways with the chemical or used containers. Non-toxic to earthworms. Fipronil has low mobility in soil. Acute LC50 (96hr) for rainbow trout 0.248 mg/L Acute LC50 (96hr) for European carp 0.430 mg/L Acute EC50 for Daphnia magna (48hr) 0.19 mg/L Acute oral LD50 for mallard ducks >2150 mg/kg Acute oral LD50 for pheasants 31 mg/kg Acute oral LD50 for bobwhite quail 11.3 mg/kg
References	Bayer CropScience product safety data August 1, 2002

CONTACT POINT

Contact Regulatory Affairs Officer (Aus) Tel: +61 3 9281 6346 Fax: +61 3 9281 6320
Business Support (NZ) Tel: 0800 932 273 Fax: 0800 940 000

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. It should be read taking into account how the product is handled in your particular situation and how it is used in conjunction with other products.
...End Of MSDS...