

BASF Australia Ltd

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 Norwest Business Park,
 7 Maitland Place

Baulkham Hills NSW 2153

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HAZARDOUS ACCORDING TO CRITERIA OF WORKSAFE AUSTRALIA.

Material Safety Data Sheet

Product Name.

**FASTAC® DUO
 INSECTICIDE**

TRADE NAME: FASTAC DUO INSECTICIDE

OTHER NAMES: Alpha-cypermethrin.
 (1R cis)S and (1S cis)R enantiomer isomer pair of
 -Alpha-cyano-3-phenoxybenzyl-3-(2,2-dichlorovinyl)-2,2-
 dimethylcyclopropanecarboxylate

USE: Synthetic pyrethroid insecticide.

MANUFACTURER'S NAME/ADDRESS

BASF Australia Ltd
 Norwest Business Park, 7 Maitland Place
 Baulkham Hills NSW 2153

U.N. NUMBER: 2903

DANGEROUS GOODS CLASS: 6.1

SUBSIDIARY RISK: 3

HAZCHEM CODE: 3W

POISONS SCHEDULE: 6

PACKAGING GROUP: III

EPG: SAA Form 6C3

PHYSICAL DESCRIPTION/PROPERTIES

APPEARANCE AND ODOUR: Clear and bright pale straw liquid.

BOILING POINT °C: 137-143 **DENSITY kg/L:** 0.907

VAPOUR PRESSURE at 15°C: 0.5-0.7kpa **MELTING POINT °C :** <-40

VAPOUR DENSITY at 15°C: 4.49 kg/m³ **EVAPORATION RATE:** 0.76

SOLUBILITY (WATER): Emulsifiable in all proportions **PERCENT VOLATILES:** 84%/m/m

**FIRE/EXPLOSION HAZARD
 FLASH POINT °C :** 24 **AUTOIGNITION °C:** 495

LEL: 1.1% v/v **UEL:** 7.7% v/v

INGREDIENTS

INGREDIENT	PROPORTION (w/v)	CAS No.
ALPHA-CYPERMETHRIN	10.0%	67375-30-8
XYLENE	75.0%	1330-20-7

® = Registered trademark of BASF

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

ACUTE EFFECTS

No adverse health effects are expected if the product is handled in accordance with this Material Safety Data Sheet and the product label.

SWALLOWED

Moderately toxic.

EYE

May cause irritation.

SKIN

Mildly irritating to skin.
If substantial skin contact occurs it could cause facial numbness.

INHALED

Little inhalation hazard if used in the correct manner.

CHRONIC EFFECTS

Animal studies indicate repeated or prolonged exposure to alpha-cypermethrin can act on the nervous system and produce excitatory effects, predominantly on the sensory nerve endings. Chronic feeding studies in animals do not indicate any cumulative toxicity and show that the compound is neither a carcinogen nor a teratogen.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Telephone 131126 Australia-wide.

EYE

If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

SKIN

If skin contact occurs, remove contaminated clothing and wash skin thoroughly with soap and water.

INHALED

Inhalation hazard is due to xylene.
Remove from contaminated area. Apply artificial respiration, if not breathing.

ADVICE TO DOCTOR

FASTAC DUO contains alpha-cypermethrin a synthetic pyrethroid, in xylene.

Treat symptomatically. If indicated, lavage with cuffed tube. The main hazard is aspiration of the solvent into the lungs resulting in chemical pneumonitis.

TOXICITY

No LD50 data is available for FASTAC* DUO. The following data is for technical alpha-cypermethrin.

Acute toxicity LD50	(mg / kg)
Rat Oral	79
Rat Dermal	> 500

PRECAUTIONS FOR USE

EXPOSURE LIMITS

Threshold Limit Value (TLV)-100ppm, 435 mg/m³ TWA ACGIH (xylene).

ENGINEERING CONTROLS

Do NOT inhale spray mist.

PERSONAL PROTECTION

Poisonous if swallowed. Will irritate the eyes and skin. Facial skin contact may cause temporary facial numbness. Avoid contact with eyes and skin. Avoid inhaling vapour or spray mist. When preparing spray, wear cotton overalls buttoned to the neck and wrist, washable hat, elbow-length PVC gloves and face shield or goggles. If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with 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, face shield or goggles and contaminated clothing.

FLAMMABILITY

Flammable. Isolate from sources of heat, naked flames or sparks.

SAFE HANDLING INFORMATION

STORAGE AND TRANSPORT

Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight.

Isolate from sources of heat, naked flames or sparks.

Ensure containers are correctly labelled and securely sealed.
Classified as a dangerous substance for transport purposes.

Eye-wash and washing facilities must be readily available. For decontaminating clothes and equipment have soda ash (sodium carbonate) on hand and for decontaminating and disposing spills have lime, soda ash, absorbent material and open head drums on hand.

SPILLS AND DISPOSAL

Clear area of all unprotected personnel. Eliminate all ignition sources. Wear full protective equipment including breathing apparatus. Stop leak if safe to do so by maneuvering the container. Decant leaking container into a clean drum remote from the storage area and label. If the leaking container can be repacked, contact BASF Australia Ltd, so that an overdrum and transport for return to a nominated BASF location can be arranged.

Do NOT flush to drains or sewers. Do NOT contaminate streams, rivers or water courses.

MSDS - FASTAC DUO INSECTICIDE

Absorb spill in lime or wet area with 5% soda ash (sodium carbonate) solution and absorb on sand, earth or non-combustible absorbent material. Place material in open top drum, clean up with small amount of detergent and water, absorb and place in drum. Scatter lime over the area and leave for 1 hour. Decompose contaminated absorbent and surplus material with 5% soda ash solution. Leave in a safe place for one month. Seal drum and bury in an area approved by the local waste disposal authority.

Soak protective equipment in 5% soda ash solution for at least 24 hours. Rinse and dry. Wash overalls.

Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. Do NOT dispose of undiluted chemicals on-site. 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 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

Explosive air-vapour mixture may form. Vapours may travel to source of ignition and flash-back. Decomposition may give rise to toxic and noxious fumes. Alcohol resistant foam, carbon dioxide or dry chemical extinguishers required. Ensure respiratory equipment is available.

Evacuate immediate area. Advise Fire Brigade of nature of hazard. Wear full protective equipment, including breathing apparatus. Remove drums from site of fire, if possible, as overheating may cause some of the drums to explode. Cool surrounding containers with a fine water spray.

Avoid contact of water with material as toxic run-off form. In this event, consideration should be given to allowing to fire to burn out. Contain run-off.

OTHER INFORMATION

PROTECTION OF LIVESTOCK

Dangerous to bees. Do NOT spray on any plants in flower while bees are foraging. FASTAC DUO is known to have a deterrent effect on foraging bees for a short period of time after spraying.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Dangerous to fish and aquatic invertebrates such as yabbies. Do NOT contaminate fish ponds, dams, drains, rivers or streams with product or used containers. Drift and run-off from treated areas may be hazardous to fish or crustaceans in adjacent sites.

DISCLAIMER

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 read taking into account how the product is handled in your particular situation and how it is used in conjunction with other products.

CONTACT POINT: BASF Australia Ltd

TELEPHONE: 1 800 635 550

EMERGENCY: 1 800 033 111

DATE OF ISSUE: 1 December 2000

SUPERCEDES.

18 November 1999

Acknowledgments:

Collated by HerbiGuide. Phone 08 98444064 for more information.