

# MATERIAL SAFETY DATA SHEET

## Company Details

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Hazardous according to the criteria of Worksafe Australia.

## I IDENTIFICATION

Product Name: Farmoz Triad 125

Other Names: Proper Shipping Name is FLAMMABLE LIQUID, N.O.S.

Product Code: None.

UN No: 1993

Hazchem Code: 3[Y]

Dangerous Goods Class: 3 Flammable liquids.

Sub Risk Class: None allocated.

Packaging Group: III

Most EPGs may now be substituted by the Initial Emergency Response Guide, available from Standards Australia.

Poison Schedule: S6

Chemical Family: Blend of ingredients (see below).

Uses: Systemic fungicide spray concentrate.

## Physical Appearance & Properties

Appearance & Odour: Colourless liquid. Strong aromatic (xylene) odour.

Melting/softening point: No specific data. Liquid at normal temperatures.

Boiling point and vapour pressure: Xylene boils about 140°C

Volatile materials: No specific data. Expected to be low at 100°C.

Flashpoint: About 30°C (xylene).

Specific gravity: 0.93-0.95 at 20°C

Solubility in water: Emulsifiable.

Corrosiveness: Not corrosive.

Ingredients Chemical Entity	CAS No	Proportion, %	Worksafe Exposure Limits	
			TWA, mg/m <sup>3</sup>	STEL, mg/m <sup>3</sup>
Triadimefon	43121-43-3	12.5	not set	not set
Xylene	1330-20-7	61	350	655
Dimethyl formamide	68-12-2	5	30	not set
Other non hazardous ingredients	secret	to 100	not set	not set

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

## II HEALTH HAZARD DATA

### Health Effects:

No specific data is available for the product for chronic exposure symptoms. The ingredients are not listed as carcinogenic in Worksafe's document "Exposure Standards for Atmospheric Contaminants in the Occupational Environment" (May 1995). Typically, chlorophenoxy pesticides do not remain in body, but are passed out within hours or days.

### Acute Effects:

Swallowed: Data suggests that this product is harmful if swallowed. Produces prompt vomiting, burning sensation in stomach, diarrhea, muscle twitching. Irritates lung, stomach and intestinal linings, and injures liver, kidney, and nervous system.

Eye: This product is irritating to the eyes. It will cause discomfort such as stinging pain, watering and redness of the eyes. Effects may last after exposure has ceased, and in severe exposure, long lasting or even permanent effects such as corneal damage can occur.

# MATERIAL SAFETY DATA SHEET

**Skin:** Data suggests that this product may be absorbed through the skin and be harmful by skin absorption. Major skin exposure may lead to health problems. This product is also irritating to skin. It is likely to cause discomfort and effects such as moderate to severe itchiness, blistering and skin reddening.

**Inhalation:** Data suggests that this product is harmful if inhaled. Minor or short term exposure may lead to short term health problems, although long term exposure may lead to permanent health problems.

For Triadimefon: LD<sub>50</sub> Oral (Rat) about 1000mg/kg      LD<sub>50</sub> Oral (Rabbit) 250-500  
LD<sub>50</sub> Oral (Dog) >500

## First Aid:

Ipecac Syrup APF should be available in the area where product is used, or in a nearby unlocked medicine cabinet.

Eyebaths or eyewash stations and safety deluge showers should be provided where this product is being used.

If poisoning occurs, contact a Doctor or Poisons Information Centre.

If swallowed, and if more than 15 minutes from a hospital, induce vomiting, preferably using Ipecac Syrup APF.

**Eyes:** If this product comes into contact with eyes, hold open and wash with running water for at least 15 minutes. Ensure irrigation under eyelids by occasionally lifting them. Do not try to remove contact lenses unless trained. Seek medical attention.

**Skin:** If product gets on skin, immediately remove contaminated clothing and wash skin thoroughly with soap and water to remove material. If you begin to feel unwell, seek medical attention. If product gets on skin, immediately remove contaminated clothing and wash skin with soap and water for at least 15 minutes. If irritation persists, seek medical attention.

**Inhalation:** If vapours or mists have been inhaled, and irritation or unusual symptoms have developed, remove to fresh air and observe until recovered. If irritation or symptoms persists more than about 30 minutes, seek medical advice.

**Advice to Doctor:** Treat symptomatically. Note that this product contains xylene. Induction of vomiting may lead to inhalation of xylene and its vapors, which in turn may lead to lung damage. Therefore induction of vomiting is preferably performed under trained medical supervision.

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## III PRECAUTIONS FOR USE

Risk Phrases are: R10, R20/21/22, R36/38. Flammable. Harmful by inhalation, in contact with skin, and if swallowed. Irritating to eyes and skin.

## Exposure Standards:

A time weighted average (TWA) has been established for Xylene, present in significant quantities in this product. This value is 350mg/m<sup>3</sup>. The corresponding STEL level is 655mg/m<sup>3</sup>. The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. See ingredients section on page 1 of this data sheet. The ADI (Acceptable Daily Intake) for Triadimefon is set at 0.03mg/kg/day. The corresponding NOEL (No-observable-effect-level) is set at 2.5mg/kg/day. Values taken from Australian ADI List, May 1995.

## Engineering Controls:

In industrial situations, concentration values below the TWA value should be maintained. Values may be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify the process or environment to reduce the problem.

## Personal Protection:

**Respiratory Protection:** If there is a significant chance of dusts, vapours or mists accumulating in the area where this product is being used, a mask or respirator should be used. For help in selecting suitable equipment, consult AS/NZS 1715.

**Protective Gloves:** Impermeable protective gloves should be worn when you are using this product, since absorption through the skin is harmful. Impermeable protective gloves should be worn when you are using this product. Failure to do so will lead to irritation of the skin. Glove selection can be made on the basis of the following resistance for Xylene based products. Neoprene: fair. Rubber: poor. Nitrile: fair. Butyl: poor. For help in selecting suitable equipment, consult AS 2161.

**Eye Protection:** Protective eyewear should be worn when using this product. Eye contact may prove painful and dangerous and should be avoided. Consult AS1336 and AS/NZS 1337 for advice on Industrial Eye Protection.

**Clothing:** Clean overalls or protective clothing should be worn, preferably with an apron. Consult AS2919 for advice on Industrial Clothing.

# MATERIAL SAFETY DATA SHEET

Safety Boots: Wearing safety boots in industrial situations is advisory. Consult AS/NZS2210 for advice on Occupational Protective Footwear.

Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

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## IV SAFE HANDLING INFORMATION

Safety Phrases are: S16, S20, S29, S38, S24/25, S36/39. Keep away from sources of ignition - No smoking. When using, do not eat or drink. Do not empty into drains. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin and eyes. Wear suitable protective clothing and eye/face protection.

### Storage & Transport

This product is classed as UN1993, Dangerous Goods Class 3 Flammable liquids. Proper Shipping name is FLAMMABLE LIQUID, N.O.S. Class 3 Flammable Liquids shall not be loaded in the same vehicle or packed in the same freight container with Classes 1 (Explosives), 2.1 (Flammable Gases where flammable liquids and flammable gases are both in bulk), 2.3 (Toxic Gases), 4.2 (Spontaneously Combustible Substances), 5.1 (Oxidising Agents), 5.2 (Organic Peroxides), 6 (Toxic Substances, except Flammable Liquid is nitromethane), and 7 (Radioactive Substances). They may however be loaded in the same vehicle or packed in the same freight container with Classes 2.1 (Flammable Gases except where the Flammable Liquids and Flammable Gases are in bulk), 2.2 (Non-Flammable Non-Toxic Gases), 4.1 (Flammable Solids), 4.3 (Dangerous When Wet Substances), 6 (Toxic Substances, except where Flammable Liquid is nitromethane), 8 (Corrosive Substances), 9 (Miscellaneous Dangerous Goods), Foodstuffs or foodstuff empties. This product is a S6 Poison. Observe all relevant regulations regarding sale, transport and storage of this class of product. Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames, and make sure that the product does not come into contact with substances listed under "Materials to avoid" below.

### Spills & Disposals

In the event of a major spill, prevent spillage from entering drains or water courses. Evacuate the spill area and deny entry to unnecessary and unprotected personnel. Immediately call the Fire Brigade. Wear full protective chemically resistant clothing including face mask, face shield, gauntlets and self contained breathing apparatus. See above under Personal Protection regarding Australian Standards relating to personal protective equipment. Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Full details regarding disposal of used containers, spillage and unused material may be found on the label. If there is any conflict between this MSDS and the label, instructions on the label prevail. Dispose of only in accord with all regulations. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

### Fire & Explosion Hazard

There is a moderate risk of an explosion from this product if it is involved in a fire. Firefighters should take care and appropriate precautions.

Flashpoint: About 30°C (xylene).

Flammability limits: Upper Value: 7% : Lower Value: 1% (xylene)

Extinguishing Media: carbon dioxide, dry chemical, foam, water fog. Foam is the preferred medium for large fires.

Special Fire Fighting procedures: If a significant quantity of this product is involved in a fire, call the fire brigade.

Immediately evacuate the area of unnecessary personnel. When fighting fires involving significant quantities of this product, wear safety boots, non-flammable overalls, gloves, hat, goggles and self contained breathing apparatus. All skin areas should be covered. Ensure that no spillage enters drains or water courses.

Unusual Fire & Explosion Hazards: Fire decomposition products from this product may form toxic and corrosive mixtures in confined spaces. Vapours from this product are heavier than air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures. They may also flash back considerable distances.

Stability: This product is unlikely to spontaneously decompose.

Polymerisation: This product is unlikely to spontaneously polymerise.

Decomposition Products: Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Nitrogen, and under some circumstances, oxides of nitrogen. Water.

Materials to avoid: strong oxidising agents.

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## V OTHER INFORMATION

This MSDS is prepared in accord with the Worksafe Australia document "National Code of Practice for the Preparation of Material Safety Data Sheets", 1994.

Issued by: Farnoz Pty Ltd

Phone: (02)9363 3611

Page 3 of 3

Product: Farnoz Triad 125

Issued: July, 1998

## MATERIAL SAFETY DATA SHEET

### Contact Points:

**Call Farmoz on (02)9363 3611 Fax: (02)9363 5977**

**Ask for Russel Brown, Technical Manager.**

**Police and Fire Brigade: Dial 000**

**If ineffective: Dial Poisons Information Centre  
(13 1126 from anywhere in Australia)**

The information contained in this Material Safety Data Sheet is provided in good faith and is believed to be correct at the date hereof. However, it is expected that individuals receiving the information will exercise their independent judgement in determining its appropriateness for a particular purpose. Farmoz Pty Ltd makes no representation as to the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability whatsoever, whether with respect to negligence or otherwise, for any loss or damage arising from or connection with the supply or use of the information in this Material Safety Data Sheet.

Please read all labels carefully before using product.

Prepared by Kilford & Kilford Pty Ltd, July, 1998

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