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Infosafe No™ 3NUCH Issue Date : October 2024 ISSUED by NUFARMNZ

Product Name THIRAM 40F

Section 1 - Identification

THIRAM 40F **Product Identifier**

Product Code 03072

Product Type Fungicide Nufarm NZ **Company Name**

Central Park, Building 3, Level 4, 666 Great South Road Ellerslie Address

Auckland 1051 New Zealand

Telephone/Fax

Number

Tel: 0-9-270 4150

0800 651 911 **Emergency Phone**

Number

nzinfo@nufarm.com Email

Recommended uses and any restrictions on use or supply

A broad spectrum protectant fungicide for use on fruit, vegetables,

ornamentals and amenity turf.

This SDS describes, to the best of our knowledge, the properties of the Other Information

concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be

much less severe.

Section 2 - Hazard(s) Identification

GHS classification of

Acute oral toxicity: Category 4

Acute inhalation toxicity: Category 4 the

Eye irritation Category 2 substance/mixture

Skin sensitization: Category 1 Reproductive toxicity: Category 2

Specific target organ toxicity - repeated exposure: Category 2

Hazardous to the terrestrial environment: Hazardous to terrestrial vertebrates

Hazardous to the aquatic environment acute Category 1 Hazardous to the aquatic environment chronic Category 1

WARNING Signal Word (s)

H302 Harmful if swallowed. Hazard Statement (s)

H332 Harmful if inhaled.

H319 Causes serious eye irritation. H317 May cause an allergic skin reaction.

H361 Suspected of damaging fertility or the unborn child.

H373 May cause damage to the kidneys, liver, nervous system and the

cardiovascular system through prolonged or repeated exposure. H410 Very toxic to aquatic life with long lasting effects.

H432 Toxic to terrestrial vertebrates.

Precautionary

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children. **Statement – General**

P103 Read carefully and follow all instructions.

Health hazard, Environment Pictogram (s)





Precautionary Statement -Prevention

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash hands and face thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

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P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face

protection/hearing protection.

Precautionary Statement -Response

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P302+P352 IF ON SKIN: Wash with plenty of water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for

breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 IF exposed or concerned: Get medical advice/attention.

P312 Call a POISON CENTER/doctor if you feel unwell. P314 Get medical advice/attention if you feel unwell.

P330 Rinse mouth.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P391 Collect spillage. P405 Store locked up.

Precautionary

Statement - Storage

Precautionary Statement - Disposal

P501 Dispose of contents/container to an approved landfill.

Section 3 - Composition and Information on Ingredients

Liquid Chemical

Characterization

Ingredients Name CAS Proportion

137-26-8 400 g/L Ingredients determined Balance

to be non-hazardous

Section 4 - First Aid Measures

For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a First-aid Measures

> doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth-to-nose rather than mouth-to mouth. Obtain medical

attention.

Remove patient to fresh air. Lay down and keep warm and rested. If breathing Inhalation

is shallow or has stopped ensure airway is clear and apply resuscitation.

Seek medical assistance immediately.

Never give anything by mouth to an unconscious person. If swallowed do NOT Ingestion

induce vomiting. For advice, contact the National Poisons Centre (0800 764

Seek medical assistance immediately.

Inform doctor if patient has consumed alcohol within 48 hours.

Immediately flush body and clothes with large amounts of water. Remove Skin

contaminated clothing and footwear. Wash affected areas with soap and water.

If a large area is affected seek medical assistance.

Flush eyes with plenty of water for 15 minutes holding eyelids open if Eye

necessary. Seek medical assistance. Remove contact lenses, if present and

easy to do.

Facilities storing or utilizing this material should be equipped with an First-aid Facilities

eyewash facility and safety shower.

Treat symptomatically. Advice to Doctor

If ingested, wash out the stomach, administer saline laxatives, provide

circulatory support, etc.

Prohibit ethyl alcohol in all forms for at least 10 days.

Section 5 - Firefighting Measures

Water fog, foam, carbon dioxide or dry chemical. Suitable

Extinguishing Media

Products

If involved in a fire, it may emit toxic fumes of carbon disulphide - formed Hazards from from unburned material; and oxides of nitrogen, sulphur and carbon. Combustion

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Special protective

LIIVE

equipment for fire-fighters

Full protective clothing and self-contained breathing apparatus.

-ingliters

Specific Methods Keep up wind. Do not allow washings to reach sewage or effluent systems.

Hazchem Code 2Z

Decomposition Temperature Information is not available.

Other Information Location Certificate: Not applicable

Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

Section 6 - Accidental Release Measures

Spills and Disposal Wear protective clothing. Clear area of unprotected personnel. Contain spill

and absorb with sand, soil or absorbent granules. If spill does enter waterways contact the local authority. Collect in an appropriate sealable container for disposal in an approved landfill.

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

Environmental Precautions

Prevent from entering drains, waterways or sewers.

Section 7 - Handling and Storage

Precautions for Safe Handling

Do not handle until all safety precautions have been read and understood.

Use personal protective equipment.

The person mixing or applying Thiram 40F must be a 'Qualified Contractor' or 'Qualified Person'. The spray mixture may also be prepared by a 'Qualified Loader'.

It is the duty of the PCBU that a person who uses, handles, manufactures or stores a hazardous substance (including hazardous waste) is provided

information, instruction and training in accordance with Regulation 4.5 of the

Health and Safety at work (Hazardous Substances) Regulations 2017.

This product must not be applied into or onto water. Avoid skin and eye contact and inhalation of spray mist.

CERTIFIED HANDLER: Is not required.

TRACKING : Is not required.

RECORD KEEPING: Records of use as described in NZS 8409 Management of

Agrichemicals must be kept if 3 litres or more of Thiram 40F is applied within

24 hours. Records of use must be kept for a minimum of 3 years from

application date.

Conditions for safe storage, including any incompatibilities

Other Information

Keep out of reach of children.

Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs. Storage must be in accordance with NZS 8409 Management

of Agrichemicals.

Stores containing 100L of Thiram 40F require secondary containment and are subject to signage, and more than 100L require emergency response plans.

Always read the label and any attached leaflet before use.

Aggregate Storage Volume Thresholds:

When stored with substances of the same hazard classification the aggregate quantity must be considered. For full details refer to the current NZS8409 $\,$

Management of Agrichemicals and the HSNO Regulations.

Section 8 - Exposure Controls and Personal Protection

Occupational Exposure Limits (OEL)

No exposure limits (WES, TEL or EEL's) have been specifically assigned for

this product.

WES TWA for thiram = 1mg/m³

safety goggles,

Appropriate Engineering

Equipment

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

Controls
Personal Protective

When opening the container, preparing spray and using the prepared spray wear

cotton overalls buttoned to the neck

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waterproof gloves,





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and wrist, boots, and a NIOSH approved half face mask with organic vapour

cartridge + dust/mist prefilter.

Hygiene Measures Do not eat, drink or smoke while using.

Remove protective clothing and wash hands and face thoroughly before meals

and after work. Wash protective clothing daily after work.

Section 9 - Physical and Chemical Properties

Form Liquid

Appearance Homogeneous cream liquid.

Odour Information is not available.

Decomposition Information is not available.

Temperature

Melting Point 144-146°C for active ingredient thiram.

Solubility in Water Miscible pH 6.5 - 8.5

Vapour Pressure Negligible at room temperature.Vapour Density Information is not available.

(Air=1)

Odour Threshold Information is not available.

Partition Coefficient: Kow LogP = 2.1 for active ingredient thiram.

n-octanol/water

Density 1.13g/mL @ 20°C

Flash Point Information is not available.

Flammability Non flammable.

Auto-ignition Information is not available.

Temperature

Flammable Limits - Information is not available.

Lower

Flammable Limits - Information is not available.

Upper

Initial Boiling Point Information is not available.

and Boiling Range

Kinematic Viscosity Information is not available.

Particle Information is not available.

Characteristics

Other Information (SC) Suspension Concentrate

Section 10 - Stability and Reactivity

Chemical Stability Stable under normal conditions of handling and storage.

Conditions to Avoid Decomposes under acidic conditions.

Product may deteriorate on prolonged exposure to heat, air or moisture.

Incompatible Reacts vigourously with oxidizing material.

Materials Do not mix with Bordeaux mixture, copper compounds, lime sulphur or alkaline

materials such as hydrated lime.

Hazardous Polymerisation will not occur.

Polymerization

Section 11 - Toxicological Information

Acute Toxicity - Oral LD50 (male rats) 3700mg/kg for active ingredient thiram.

Acute Toxicity - LC50 (4h, male rats) 5.04mg/L air for active ingredient thiram.

Inhalation

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Acute Toxicity -

LD50 (rats) >2000mg/kg for active ingredient thiram.

Dermal

Not a skin irritant for active ingredient thiram. Skin

Corrosion/Irritation

Serious Eye

This product causes serious eye irritation.

Damage/Irritation

May cause an allergic skin reaction. **Skin Sensitisation**

Germ Cell

Information is not available.

Mutagenicity

Information is not available. Carcinogenicity

Reproductive

Suspected of damaging fertility or the unborn child.

Toxicity

Exposure

STOT - Single **Exposure**

Information is not available.

STOT - Repeated

May cause damage to the kidneys, liver, nervous system and the cardiovascular

system through prolonged or repeated exposure.

Aspiration Hazard

Information is not available.

Other Information

The Australian Acceptable Daily Intake (ADI) for thiram for a human is 0.004 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.4 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive

species. (Ref: Aust Govt Dept. of APVMA, 'ADI List', Edition 1/2024).

Section 12 - Ecological Information

Persistence and **Degradability**

Not rapidly degradable.

Mobility

Information is not available.

Environmental Fate

In plants the major metabolite is ethylene thiourea, followed by ethylene thiuram monosulphide, and presumably ethylene thiuram disulphide and sulphur.

Bioaccumulative

Potential

This material has a small potential to bioaccumulate in aquatic species.

Basis for Assessment Acute Toxicity - Fish

Data below is for the active ingredient unless otherwise stated. LC50 (96h) bluegill sunfish 0.13mg/L for active ingredient thiram.

Acute Toxicity -

LC50 (48h) 0.011mg/L for active ingredient thiram.

Daphnia

Acute Toxicity -

Algae

Acute Toxicity -Other Organisms EC50 (72h) Selenastrum capricornutum 0.065mg/L for active ingredient thiram.

Birds: LD50 (mallard ducks) >2800mg/kg for active ingredient thiram. Bees: LD50 (oral and contact) >100µg/bee for active ingredient thiram.

Worms: LC50 (14d) 540mg/kg soil for active ingredient thiram.

Section 13 - Disposal Considerations

Dispose of product only by using according to the label, or at an approved **Product Disposal**

landfill.

Container Disposal Triple rinse empty container and add rinsate to spray tank.

container. Otherwise crush and bury in a suitable landfill.

Section 14 - Transport Information

It is good practice not to transport agricultural chemical products with Transport

food, food related materials and animal feedstuffs. Information

UN Number

Proper Shipping

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (thiram)

Name

Hazard Class 9

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Hazchem Code 2Z
Packaging Method Packing Group III
EPG Number -

IERG Number 47

IMO Marine

Yes. Environmentally Hazardous Substance mark required.

Pollutant

IMDG EMS F-A, S-F

Other Information Do not carry more than 1L of Thiram 40F on a passenger service vehicle.

Segregation: Check the latest Land Transport Rule Dangerous Goods Rule 45001 for additional information. Sea transport may require additional segregation.

Refer NZS5433 sea segregation for details.

Section 15 - Regulatory Information

National and or Registered pursuant to the ACVM Act 1997, No. P4114
International See www.foodsafety.govt.nz for registration conditions

Regulatory Approved pursuant to the HSNO Act 1996, Approval Code HSR000475

Information See www.epa.govt.nz for approval controls.

Packaging and READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Labelling KEEP OUT OF REACH OF CHILDREN

KEEP LOCKED UP

Section 16 - Any Other Relevant Information

Date of preparation

or last revision of SDS

June 2021.

Contact Person/Point IN AN EMERGENCY, DIAL 111 - FIRE OR POLICE

24Hr Tollfree Emergency No: 0800 651 911

24Hr Emergency No: National Poisons Centre Phone: 0800 764 766

Revisions Various changes and updates made to the document to comply with GHS7.

Highlighted

...End Of MSDS...

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