



SAFETY DATA SHEET

RANMAN[®] 400SC

Date of Issue: 2 March 2020

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Chemical name of active ingredient(s): Cyazofamid
Recommended use: Fungicide

Supplier: UPL New Zealand Limited
PO Box 51584, Pakuranga
Auckland
Phone 0800 100 325

Emergency telephone number: 0800 CHEM CALL (0800 243 622) 24 Hours

2. HAZARDS IDENTIFICATION

Hazard Classification: 9.1A

Required identification Details: ECOTOXICITY
Very toxic to aquatic organisms with long lasting effects.
Ranman 400SC shall not be applied directly onto, into or over surface water.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation Information on hazardous ingredients

Common name	CAS No	%
Cyazofamid	120116-88-3	40%
Propylene glycol	57-55-6	5 – 20 %

4. FIRST-AID MEASURES

Description of necessary first aid measures:

If swallowed, do NOT induce vomiting. For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately.

If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If splashed in eyes, wash out immediately with water

Effects and symptoms:

No known serious toxicological effects. May be mildly irritant to skin and eyes after prolonged exposure.

First-aid measures

Ingestion: If swallowed, do NOT induce vomiting. For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately.

Skin contact: If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If splashed in eyes, wash out immediately with water.

Eye contact: If splashed in eyes, wash out immediately with water.

Notes to a physician: Treat symptomatically

5. FIRE-FIGHTING MEASURES

HAZCHEM Code: 3Z

Extinguishing media: Dry chemicals, carbon dioxide, alcohol foam or water spray.
Unusual fire and explosion hazards: The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. There is little risk of an explosion from this product if commercial quantities are involved in a fire.
This product is likely to decompose only after heating to dryness, followed by further strong heating.
Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

Protection of fire-fighters: Use self-contained breathing apparatus and complete personal protective equipment.

Other information: Move containers away from fire areas if it can be done without risk. If impossible to remove containers from fire zone, cool them with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Refer to section 8 for personal protective equipment.
Avoid skin and eye contact.

Environmental precautions: Prevent from entering the drains, ditches or rivers. Obey local Regulations for health and safety and environment protection when accidental spills are treated. Do not discharge treated water to river, sea, lake, waterway, etc.

Methods for cleaning up: Large quantities: Remove with vacuum truck. Wash spill site with soap and plenty of water after material pick-up is complete.
Small quantities: Remove with inert absorbent (e.g. sand or vermiculite), and place in a closed container and hold for waste disposal. Wash spill site with soap and plenty of water after material pick-up is complete.

7. HANDLING AND STORAGE

Handling: Refer to section 8 for personal protective equipment. Do not breathe gas/ fumes/ vapour/spray. Avoid contact with skin and eyes.

Storage: Keep in container tightly closed. Store in a cool dry place. Avoid direct contact with water, acids or bases.

Specific use: The recommendations for specific use are contained in above description.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace Exposure Guidelines

Exposure limit values: Not listed

Engineering measures

Exposure control measures:

Ventilation specification: Use general and/or local exhaust ventilation to control vapour.

Personal Protective Equipment

Detail specifications for equipment:

Respiratory protection: Appropriate respirator for organic compound vapour.
Skin protection: Wear suitable working clothes, hand protection and boots.
Hands: Gloves material, e.g. outside: rubber, vinyl chloride resin; inside: cotton, rayon.
Eyes: Use safety goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Colour. Off-white liquid
Odour. No data
pH: 6.2 (1% aqueous suspension)
Vapour Pressure: 2.37 kPa at 20°C (water vapour pressure).
Boiling Point: Approximately 100°C at 100kPa..
Freezing/melting point: Approximately 0°C.
Volatiles: Approximately 50% Approximately 50%
Solubility: Completely soluble in water..
Vapour Density: As for water
Specific Gravity 1.154
Volatility: No data.
Odour Threshold: No data.
Evaporation Rate: As for water.
Coeff Oil/water Distribution: No data
Autoignition temp: Does not burn.

10. STABILITY AND REACTIVITY

Stability:
Conditions to avoid: High temperature.
Materials to avoid: No notable incompatibilities
Hazardous Decomposition Products: This product is likely to decompose only after heating to dryness, followed by further strong heating. Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed. May form nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas in reducing atmospheres. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.
Hazardous polymerization: Unlikely to occur
Specific Date:
Hazardous reactions: None known

11. TOXICOLOGICAL INFORMATION

Acute toxicity – Oral: LD₅₀ Oral, Mouse = >5000mg/kg
Acute toxicity - Dermal: LD₅₀ Dermal, Rat = >2000mg/kg
Acute toxicity – Inhalation: LC₅₀ Inhalation, Rat = >5.854mg/L/4hr
Skin irritation: Contact Sensitization: Non-sensitizing to skin (guinea pig).
Eye irritation: Not an eye irritant
Dermal: Not an irritant
Carcinogenicity: No data available for this product. (Cyazofamid technical was negative)

Mutagenicity: No data available for this product. Cyazofamid technical was negative.

Ames test: Negative (as active ingredient)
Chromosomal aberration test (Chinese hamster lung): Negative (as active ingredient)

12. ECOLOGICAL INFORMATION

Ecotoxicity

Acute toxicity for fish: LC₅₀ carp (*Cyprinus carpio*) : >285mg/L
LC₅₀ *Pseudokirchinella subcapitata*: 1.3mg/L

Acute toxicity for Daphnia: EC₅₀ 1.22mg/L

Chronic aquatic organism toxicity: *Pseudokirchneriella subcapitata* (NOEC): 0.0257 mg/L (Cyazofamid technical)

13. DISPOSAL CONSIDERATIONS

Methods of disposal:



Do not discharge into waterway or sewer systems. Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank mix. Dispose of this product only by using according to the label, or at an approved landfill or other approved facility. Recycle empty container through Agrecovery®. If not recycling, break, crush, or puncture and bury the containers in a suitable landfill. Do NOT reuse this container for any other purpose.

14. TRANSPORT INFORMATION - International transport regulations

UN number: UN3082
Class or Division: Class 9: Miscellaneous Dangerous Goods.NA
Subsidiary Class:
Packing Group: III
Marine Pollutant:
Proper shipping name: Environmentally hazardous substance, Liquid, N.O.S. (contains Cyazofamid)

**INTERNATIONAL AIR
TRANSPORT ASSOCIATION
(IATA):**

15. REGULATORY INFORMATION

ACVM Registered Number: Registered pursuant to the ACVM Act 1997, No.8553
HSNO Approval Code: HSR101018

16. OTHER INFORMATION

Additional information: **Original Issue Date:** 14 August 2015
Revision Date: 3 March 2020
Replaces: ES387

Disclaimer EXCLUSION OF LIABILITY: PLEASE READ

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