



# SAFETY DATA SHEET

## RANMAN<sup>®</sup> 400SC

Date of Issue: 14 August 2015

### 1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

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

**Supplier:** Etec Crop Solutions Limited  
PO Box 51584  
Pakuranga  
Auckland  
Phone 0800 100 325

**Emergency telephone number:** 0800 Poison (0800 764 766) 24 Hours

### 2. HAZARDS IDENTIFICATION

**Hazard Classification:** 9.1A  
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

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## **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.

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## **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.

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## **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.

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## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Workplace Exposure Guidelines**

**Workplace exposure standards:**

**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.  
Hand protection: Gloves material, e.g. outside: rubber, vinyl chloride resin; inside: cotton, rayon.  
Eye protection: Use safety goggles.  
Skin protection: Wear suitable working clothes, hand protection and boots.

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## **9. PHYSICAL AND CHEMICAL PROPERTIES**

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

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## **10. STABILITY AND REACTIVITY**

**Stability:**

<b>Conditions to avoid:</b>	High temperature.
<b>Materials to avoid:</b>	No notable incompatibilities
<b>Hazardous decomposition Products:</b>	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.
<b>Hazardous polymerization:</b>	Unlikely to occur
<b>Specific Data:</b>	
<b>Hazardous reactions :</b>	None known

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## 11. TOXICOLOGICAL INFORMATION

<b>Acute toxicity – Oral:</b>	LD50 Oral, Mouse = >5000mg/kg
<b>Acute toxicity - Dermal:</b>	LD <sub>50</sub> Dermal, Rat = >2000mg/kg
<b>Acute toxicity – Inhalation:</b>	LC <sub>50</sub> Inhalation, Rat = >5.854mg/L/4hr
<b>Skin irritation:</b>	<b>Contact Sensitization:</b> Non-sensitizing to skin (guinea pig).
<b>Eye irritation:</b>	Not an eye irritant
<b>Dermal:</b>	Not an irritant
<b>Carcinogenicity:</b>	No data available for this product. (Cyazofamid technical was negative.)
<b>Mutagenicity:</b>	No data available for this product. Cyazofamid technical was negative.
<b>Ames test:</b>	Negative (as active ingredient)
<b>Chromosomal aberration test</b>	(Chinese hamster lung): Negative (as active ingredient)

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## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	
<b>Acute toxicity for fish:</b>	LC <sub>50</sub> carp ( <i>Cyprinus carpio</i> ) : >285mg/L LC <sub>50</sub> <i>Pseudokirchinella subcapitata</i> : 1.3mg/L
<b>Acute toxicity for Daphnia:</b>	EC <sub>50</sub> 1.22mg/L
<b>Chronic aquatic organism toxicity:</b>	<i>Pseudokirchneriella subcapitata</i> (NOEC): 0.0257 mg/L (Cyazofamid technical)

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## 13. DISPOSAL CONSIDERATIONS

<b>Methods of disposal :</b>	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
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container for any other purpose.

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## 14. TRANSPORT INFORMATION - International transport regulations

**UN number:** 3082  
**Class or Division:** Class 9: Miscellaneous Dangerous Goods.  
**Sub Class:**  
**Packing Group:** III  
**Marine Pollutant:**  
**Proper shipping name :** **Environmentally hazardous substance, Liquid, N.O.S.**  
(contains c)  
**Segregation Requirements:**

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## 15. REGULATORY INFORMATION

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

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## 16. OTHER INFORMATION

**Additional information:** **Original Issue Date:** 14 August 2015  
**Revision Date:**  
**Replaces:**

### ***Disclaimer***

This Safety Data Sheet is based on the most recent information available. To the extent permitted by law, users of this information accept that neither the manufacturer, Etec Crop Solutions Limited as distributor, nor any other distributor have any liability or responsibility whatsoever for any loss, damage or injury whether in contract or tort, whether direct, indirect or consequential howsoever arising in connection with the supply of these information.

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