

Material Safety Data Sheet

Cyazofamid 10% + Cymoxanil 50% WG

1. PRODUCT IDENTIFICATION

Product Name:	Cyazofamid 10% + Cymoxanil 50% WG
Common Name:	Cyazofamid + Cymoxanil
Chemical Family:	Sulfonimidazole (Cyazofamid);
	Cyanoacetamide oxime (Cymoxanil)
Chemical Formula:	C ₁₃ H ₁₃ ClN ₄ O ₂ S (Cyazofamid);
	C ₇ H ₁₀ N ₄ O ₃ (Cymoxanil)
Chemical Name:	4-chloro-2-cyano-N,N-dimethyl-5-p-tolylimidazole-1-sulfonamide
	(Cyazofamid);
	1-(2-cyano-2-methoxyiminoacetyl)-3-ethylurea (Cymoxanil)
CAS No.:	120116 - 88 - 3(Cyazofamid);
	57966-95-7 (Cymoxanil)
Product Use:	Fungicide

2. COMPANY IDENTIFICATION:

Exporter:

CHICO CROP SCIENCE CO., LTD.
Add: Rm 903, Unit C, Tian An International Bldg., Renmin South Rd., Shenzhen, China.
Tel: 86-755-22969199 Fax: 86-755-25919993

E-mail: chico1@chicocrop.com

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient Name	CAS Registry Number	Typical Wt. % w/w
Cyazofamid	120116 - 88 - 3	10%
Cymoxanil	57966-95-7	50%
Other ingredients	N/A	balance

4. HAZARDS IDENTIFICATION

Emergency Overview

Off-white columnar granules with not distinct odor.



WARNING! KEEP OUT OF REACH OF CHILDREN MAY BE HARMFUL IF SWALLOWED MAY BE HARMFUL IN CONTACT WITH SKIN

Potential Health effects

Dermal contact, ingest and inhalation of the product are the primary routes to induce potential adverse health effects. Inhalation of aerosol during application of the product as part of its end use is another potential route of entry. Eye and skin irritation may occur from contact with the liquid or spray mixture.

5. FIRST AID MEASURES

If swallowed:	Immediately stop taking, gargle with water, timely with the label to the
	hospital for symptomatic treatment.
If in eye:	Immediately open eyelids and rinse with water for at least 15 minutes
	before seeking medical attention.
If on skin:	Wash with plenty of soap and water, including hair and under
	fingernails. Do not apply any medicating agents except on the advice of
	a physician. Remove contaminated clothes.
If Inhaled:	Move victim from contaminated area to fresh air. Apply artificial
	respiration if necessary.
Notes to Physician:	No special antidote. Take the victim to hospital with the label.

6. FIRE FIGHTING MEASURES

Fire and explosive Properties

Auto-Ignition Temperature	Not available
Flash Point	Not applicable

Extinguishing Media

Water fog, Carbon Dioxide, Dry Chemical, Foam.

Fire Fighting Instructions

Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear and self-contained breathing apparatus. Fire fighting equipment should be thoroughly decontaminated after use. Person who may have been exposed to contaminated smoke should be immediately examined by a physician and checked for symptoms of poisoning. The symptoms should not be mistaken for heat exhaustion or smoke inhalation. Avoid using straight running water to extinguish fires. Straight running water may cause splashes of flammable liquids and spread the fire.



7. ACCIDENTAL RELEASE MEASURES

In Case Of Spill or Leak

Stop the leak, if possible. Ventilated the space involved. Prevent the formation of dust. Prevent inhalation of steam, mist or gases. Absorb, sweep up, place in container for disposal. Shut off or remove all ignition sources. Prevent waterway contamination.

8. HANDLING AND STORAGE

Handling

Operators must be specially trained and strictly abide by the operating procedures. Harmful if swallowed, inhaled, or absorbed through the skin. Causes eye irritation. Do not breathe gas or allow to get in eyes, on skin, or on clothing. Prevent dust from being released into the air. Wash hands, arm and face thoroughly with soap and warm water after use and before eating or smoking. Wash all contaminated clothing with soap and hot water before reuse. Do not contaminate feed or food items. Keep out of reach of children.

Storage

Store in a cool dry and air ventilating warehouse and protected from light. Avoid contacting with food, feed stuff and seed.

9. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye/Face Protection

Goggles and full face shield should be used when needed to prevent liquid from face and getting into the eyes.

Skin Protection

Avoid skin contact. Use chemical-resistant gloves, and wear long sleeves and trousers to prevent dermal exposure.

Respiratory Protection

Under normal handling conditions no respiratory protection is needed. However, if needed to prevent respiratory irritation, either a respirator approved for dusts and mists, or one approved for pesticides.

10. PHYSICAL AND CHEMICAL PROPERTIES

Color: Physical state: Odor: pH: Melting point Off-white Columnar granules Not distinct odor 5.0-9.0 152.7 °C(Cyazofamid) 160-161°C (Cymoxanil)



Boiling point:	N/A
Vapor pressure:	<1.3 × 10 ⁻² mPa (35 °C) (Cyazofamid)
	0.15 mPa (20°C) (Cymoxanil)
Solubility in water	In water 0.121 (pH 5), 0.107 (pH 7), 0.109 (pH 9) (all in
	ppm, 20 °C). (Cyazofamid)
	In water 890 mg/kg (PH 5, 20°C). (Cymoxanil)
Solubility in organic solvents:	In acetone 41.9, toluene 5.3, dichloromethane 101.8,
	hexane 0.03, ethanol 1.54, ethyl acetate 15.63, octanol
	0.25, acetonitrile 29.4, isopropanol 0.39 (all in g/l,
	20 °C).(Cyazofamid)
	In hexane 0.037, toluene 5.29, acetonitrile 57, ethyl
	acetate 28, n-octanol 1.43, methanol 22.9, acetone 62.4,
	dichloromethane 133.0 (all in g/l, 20°C) (Cymoxanil)
Partition coefficient:	Kow logP = 3.2 (25 °C)(Cyazofamid)
	K _{ow} logP= 0.59 (PH 5), 0.67(PH 7)(Cymoxanil)

11. STABILITY AND REACTIVITY

Stability

In water DT_{50} 24.6 d (pH 4), 27.2 d (pH 5), 24.8 d (pH 7). (Cyazofamid) Hydrolysis DT_{50} 148d (PH 5), 34h (PH 7), 31 min (PH 9). Aqueous photolysis DT_{50} 1.8d(PH5). (Cymoxanil)

Hazardous Polymerization

Does not occur

Incompatibility

Can not be mixed with strong alkaline pesticides.

Hazardous Decomposition Products

Not available

12. TOXICOLOGICAL INFORMATION

Acute Oral:	Acute oral LD_{50} for rats and mice >5000 mg/kg.(Cyazofamid) Acute oral LD_{50} for male rats 760, female rats 1200 mg/kg. (Cymoxanil)
Acute Dermal:	Acute percutaneous LD_{50} for rats >2000 mg/kg.(Cyazofamid)
Acute Derman.	Acute percutaneous LD_{50} for rabbits > 2000 mg/kg. (Cymoxanil)
Irritation:	Not irritating to eyes or skin (rabbits). (Cyazofamid)
	Not an eye irritant; slight skin irritant (rabbits). (Cymoxanil)
Sensitisition:	Not a skin sensitiser (guinea pigs).(Cyazofamid)
	Not a skin sensitizer (guinea pigs). (Cymoxanil)



13. ECOLOGICAL INFORMATION

Ecotoxicological Information

Cyazofamid	
------------	--

Effects on Birds:	Acute oral LD_{50} for quail and ducks >2000 mg/kg. Dietary LC_{50} for quail and ducks >5000 ppm (EU Rev. Rep.).
Effects on Fish:	LC_{50} (96 h) for rainbow trout >0.510, carp >0.14 mg/l (both the highest achievable concentration in water).
Bees:	LD_{50} for honeybees (oral) >151.7µg/bee; (contact) >100µg/bee.
Daphnia:	EC ₅₀ (48 h) >0.14 mg/l (highest achievable concentration in water).
Algae:	E _b C ₅₀ (72 h) for Selenastrum capricornutum 0.025 mg/l.
Cymoxanil:	
Effects on Birds:	Moderately toxic to birds. Acute oral LD_{50} for bobwhite quail and mallard ducks > 2250 mg/kg. Dietary LC_{50} (8d) for bobwhite quail and

	mallard ducks $> 2250 \text{ mg/kg}$. Dietary LC ₅₀ (8d) for bobwhite quail and
	mallard ducks > 5620 mg/kg diet.
Effects on Fish:	Moderately toxic to fish. LC ₅₀ (96 h) for rainbow trout 61, bluegill
	sunfish 29, common carp 91, sheepshead minnows > 47.5 mg/l.
Bees:	Not toxic to bees; LD_{50} (48h, contact) > 25µg/bee; LC_{50} (48h, oral) >
	1000 ppm.
Worms:	Low toxic to worms, LC_{50} (14d) > 2208 mg/kg soil.

Chemical Fate Information

No data are available

14. DISPOSAL CONSIDERATIONS

Waste Disposal

Pesticide wastes are acutely hazardous. Do not reuse product containers. Dispose product containers, waste containers, residues according local health and environmental regulations.

15. TRANSPORT INFORMATION

UN number: UN 3077 Class and subsidiary risk: 9 Packing group: III

16. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

17. OTHER INFORMATION



The information contained herein relates only to the specific material identified. We believes that such information is accurate and reliable as of the date of this material safety data sheet, but no representation, guarantee or warranty, express or implied, is made as to the reliability or completeness of the information. Urge persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.

Chico Crop Science Co., Ltd