

F U N G I C I D E

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY OR UNDERTAKING

IDENTIFICATION OF THE SUBSTANCE OR PREPARATION

Tradename **BONTIMA**
 Design Code **A15840C**
 AGI Code **41353**

COMPANY/UNDERTAKING IDENTIFICATION

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2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS-NO.	EC-NO.	CHEMICAL NAME	CONCENTRATION (% W/W)	HAZARD SYMBOLS	RISK PHRASES (R)
881685-58-1	–	isopyrazam	6.1	Xn, N	40, 43, 50/53, 63
121552-61-2	–	cyprodinil	18.3	Xi, N	43, 50/53
114433-76-2 1118-92-9	238-405-1 214-272-5	decanamide, N,N-dimethyl-	20–30	Xi, N	38, 41
64742-94-5	265-198-5	solvent naphtha (petroleum), highly aromatic	10–20	Xn, N	51/53, 65, 66
78-40-0	201-114-5	phosphoric acid, triethyl ester	10–20	Xn	22

For the full text of the R phrases mentioned in this section, see section 16.

3. HAZARDS IDENTIFICATION

Harmful by inhalation. Irritating to skin. Limited evidence of a carcinogenic effect. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Possible risk of harm to the unborn child.

4. FIRST AID MEASURES

General advice: Have the product container, label or Material Safety Data Sheet with you when calling the Syngenta emergency number, a Poison Control Centre or physician, or going for treatment.

Inhalation: Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or Poison Control Centre immediately.

Skin contact: Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.

Ingestion: If swallowed seek medical advice immediately and show the container, label or this Data Sheet, if possible. Do NOT induce vomiting: contains petroleum distillates and/or aromatic solvents.

Medical advice: There is no specific antidote available. Treat symptomatically. Do NOT induce vomiting: contains petroleum distillates and/or aromatic solvents.

5. FIRE FIGHTING MEASURES

Extinguishing media – small fires: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media – large fires: Use alcohol-resistant foam or water spray.

Extinguishing media which must not be used for safety reasons: Do not use a solid water stream as it may scatter and spread fire.

Specific hazards during fire fighting: As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health.

Special protective equipment for fire fighters: Wear full protective clothing and self-contained breathing apparatus.

Further information: Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Refer to protective measures listed in sections 7 and 8.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

Methods for cleaning up: Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see section 13).

Additional advice: If the product contaminates rivers and lakes or drains inform respective authorities.

7. HANDLING AND STORAGE

Advice on safe handling: No special protective measures against fire required. Avoid contact with skin and eyes. When using do not eat, drink or smoke. For personal protection see section 8.

Requirements for storage areas and containers: No special storage conditions required. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs.

Other data: Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient temperatures.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION**COMPONENTS WITH WORKPLACE CONTROL PARAMETERS**

Components	Exposure limit(s)	Value type	Source
cyprodinil	7 mg/m ³	8 h TWA	SYNGENTA
isopyrazam	1 mg/m ³	8 h TWA	SYNGENTA
solvent naphtha	15 ppm	8 h TWA	SUPPLIER
	100 mg/m ³		

ENGINEERING MEASURES

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use. If airborne mists or vapours are generated, use local exhaust ventilation controls. Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit. Where necessary, seek additional occupational hygiene advice.

PERSONAL PROTECTION

When using this product refer to the label for details. In all other cases, use the following Personal Protective Equipment:

Protective measures: The use of technical measures should always have priority over the use of personal protective equipment. When selecting personal protective equipment, seek appropriate professional advice. Personal protective equipment should be certified to appropriate standards.

Respiratory protection: A combination gas, vapour and particulate filter respirator may be necessary until effective technical measures are installed. Protection provided by air-purifying respirators is limited. Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances where air-purifying respirators may not provide adequate protection.

Hand protection: Chemical resistant gloves should be used. Gloves should be certified to an appropriate standard. Gloves should have a minimum breakthrough time that is appropriate to the duration of exposure. The breakthrough time of gloves varies according to the thickness, material and manufacturer. Gloves should be changed when breakthrough is suspected. Suitable material: nitrile rubber.

Eye protection: Eye protection is not usually required. Follow any site specific eye protection policies.

Skin and body protection: Assess the exposure and select chemical resistant clothing based on the potential for contact and the permeation / penetration characteristics of the clothing material. Wash with soap and water after removing protective clothing. Decontaminate clothing before re-use, or use disposable equipment (suits, aprons, sleeves, boots, etc.). Wear as appropriate: impervious protective suit.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Form:	Mobile clear uniform.
Colour:	Orange to brown.
pH:	>6.0–8.0
Flash Point:	>165°C at 100.2 kPa Pensky-Martens c.c.
Auto-ignition Temperature:	440°C

Oxidising Properties:	Not oxidising.
Explosive Properties:	Not explosive.
Density:	1.02 g/cm ³ at 20°C

10. STABILITY AND REACTIVITY

Hazardous decomposition products: Combustion or thermal decomposition will evolve toxic and irritant vapours.

Hazardous reactions: None known. Hazardous polymerisation does not occur. Stable under normal conditions.

11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity: LD₅₀ female rat, 3129 mg/kg
GHS-Classification Category 5. The toxicological data has been taken from products of similar composition.

Aspiration Toxicity: Aspiration hazard if swallowed – can enter lungs and cause damage
GHS-Classification Category 1. Derived from components.

Acute Inhalational Toxicity: LC₅₀ male and female rat, >2.62–<5.24 mg/l, 4h
GHS-Classification Category 4. The toxicological data has been taken from products of similar composition.

Acute Dermal Toxicity: LD₅₀ male and female rat, >5000 mg/kg
GHS-Classification Category None. The toxicological data has been taken from products of similar composition.

Skin Irritation: Rabbit: Moderately irritating
GHS-Classification Category 3. The toxicological data has been taken from products of similar composition.

Eye Irritation: Rabbit: Non-irritating
GHS-Classification Category None. The toxicological data has been taken from products of similar composition.

Sensitisation: Guinea pig: Not a skin sensitiser in animal tests
GHS-Classification Category None. The toxicological data has been taken from products of similar composition.

LONG-TERM TOXICITY

Isopyrazam: Did not show mutagenic effects in animal experiments. Did not show carcinogenic effects in animal experiments. Animal testing did not show any effects on fertility. Evidence of developmental toxicity at high doses (reduction in eye size).

Cyprodinil: Did not show carcinogenic, teratogenic or mutagenic effects in animal experiments.

12. ECOLOGICAL INFORMATION

ELIMINATION INFORMATION (PERSISTENCE AND DEGRADATION)

Biodegradability: Isopyrazam is not readily biodegradable.

Stability in water

Isopyrazam degradation half life: 21d. Isopyrazam is not persistent in water.
Cyprodinil: degradation half life: ca 10d. Cyprodinil is not persistent in water.

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Stability in soil

Isopyrazam: Degradation half life: 70d. Isopyrazam is not persistent in soil.

Cyprodinil: Degradation half life: 0.1–2d. Cyprodinil is not persistent in soil.

Mobility

Isopyrazam has low to slight mobility in soil.

Cyprodinil has low to slight mobility in soil.

Bioaccumulation

Isopyrazam does not bioaccumulate.

Cyprodinil does not bioaccumulate.

ECOTOXICITY

Toxicity to Fish: LC₅₀ *Oncorhynchus mykiss* (rainbow trout) 0.36 mg/l, 96 h. Based on test results obtained from similar product.

Toxicity to Daphnia and Other Aquatic Invertebrates: EC₅₀ *Daphnia magna* (water flea): 0.22 mg/l, 48h. Based on test results obtained from similar product.

Toxicity to Algae: EbC₅₀ *Pseudokirchneriella subcapitata* (green algae): 3.5 mg/l, 96 h
ErC₅₀ *Pseudokirchneriella subcapitata* (green algae): 6.6 mg/l, 96 h
Based on test results obtained from similar product.

13. DISPOSAL CONSIDERATIONS

Product: Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging: Empty remaining contents. Triple rinse containers. Empty containers should be taken for local recycling or waste disposal. Do not re-use empty containers.

14. TRANSPORT INFORMATION

LAND/SEA/AIR (RID/ADR/IMDG/IATA)

Class	UN Number	Packaging Group
9	3082	III

Proper Shipping Name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (CYPRODINIL AND ISOPYRAZAM)

Marine pollutant:

Yes

15. REGULATORY INFORMATION

Hazard Symbols/ Classifications	Xn N	HARMFUL DANGEROUS FOR THE ENVIRONMENT
Risk phrases (R)	20	Harmful by inhalation.
	38	Irritating to skin.
	40	Limited evidence of a carcinogenic effect.
	50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
	63	Possible risk of harm to the unborn child.

Safety phrases (S)	2	Keep out of the reach of children.
	13	Keep away from food, drink and animal feeding stuffs.
	20/21	When using do not eat, drink or smoke.
	26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	35	This material and its container must be disposed of in a safe way.
	36/37	Wear suitable protective clothing and gloves.
	57	Use appropriate containment to avoid environmental contamination.
Special label		To avoid risks to man and the environment, comply with the instructions for use.

16. OTHER INFORMATION

Always read the label. Use pesticides safely.

Based on SDS version 3 dated 27/10/09 with local amendment.

Product approval number: MAPP 14899

Text of R phrases mentioned in Section 2:

R22 Harmful if swallowed.

R38 Irritating to skin.

R40 Limited evidence of a carcinogenic effect.

R41 Risk of serious damage to eyes.

R43 May cause sensitisation by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R63 Possible risk of harm to the unborn child.

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.