



SAFETY DATA SHEET

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Annex II

Bontima

Revision Date 26-Apr-2020

Version 1

Product No FNG56937-44

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ADM.02503.F.2.A 9510102

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Bontima

Pure substance/mixture Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Fungicide
Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Supplier Address ADAMA Agricultural Solutions UK Ltd
Third Floor East
1410 Arlington Business Park
Theale
READING
RG7 4SA
Tel: 01635 860555
Fax: 01635 861555

For further information, please contact

Email address ukenquiries@adama.com

1.4. Emergency telephone number

Emergency Telephone National Chemical Emergency Centre (UK):
Tel: 01865 407333 (24 hours)
National Poisons Information Centre (Republic of Ireland)
Tel: 01 809 2166 (8am – 10pm 7 days a week)

Section 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Aspiration hazard Category 1 - (H304)
Acute toxicity - Inhalation Category 4 - (H332)
(Dusts/Mists)

Reproductive Toxicity Category 2 - (H361d)
Specific target organ toxicity (single exposure) Category 3 - (H335)
Acute aquatic toxicity Category 1 - (H400)
Hazardous to the Aquatic Environment - Chronic Hazard Category 1 - (H410)

2.2. Label elements

Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



Signal word

Danger

Hazard Statements

H304 - May be fatal if swallowed and enters airways
 H332 - Harmful if inhaled
 H335 - May cause respiratory irritation
 H361d - Suspected of damaging the unborn child
 H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements

P102 - Keep out of reach of children
 P201 - Obtain special instructions before use
 P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
 P280 - Wear protective gloves/protective clothing/eye protection/face protection
 P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 P331 - Do NOT induce vomiting
 P501 - Dispose of contents/ container to an approved waste disposal plant

EU Specific Hazard Statements

EUH066 - Repeated exposure may cause skin dryness or cracking
 EUH208 - Contains Cyprodinil and Isopyrazam. May produce an allergic reaction.
 EUH401 - To avoid risks to human health and the environment, comply with the instructions for use

Additional phrases for PPP

SP1 - Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

2.3. Other hazards

No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture

| Chemical Name | Weight-% | CAS No | EC No | Index No | Classification according to Regulation (EC) No. 1272/2008 [CLP] | M-Factor | REACH Registration Number |
|---------------|----------|-------------|-----------|--------------|---|--------------|---------------------------|
| Cyprodinil | 16-20 | 121552-61-2 | - | 612-242-00-X | Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) | M=10 M=10 | - |
| Isopyrazam | 5-8 | 881685-58-1 | 632-619-2 | - | Skin Sens. 1B (H317) Repr. 2 (H361d) | | - |

| | | | | | | | |
|---|-------|------------|-----------|--------------|--|-------------|--|
| | | | | | Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) | M=1 M=10 | |
| Reaction mass of N,N-Dimethyloctan-1-amine and N,N-Dimethyldecan-1-amine | 27-30 | N/A | 909-125-3 | - | Skin Irrit. 2 (H315) Eye Dam. 1 (H318) STOT SE 3 (H335) | | 01-2119974115-37-0001 01-2119974115-37-0002 |
| Hydrocarbons, C10-C13, aromatics, <1% naphthalene | 17-22 | N/A | 922-153-0 | - | Asp. Tox. 1 (H304) Aquatic Chronic 2 (H411) (EUH066) | | 01-2119451097-39-0002 |
| Triethyl phosphate | 15-19 | 78-40-0 | 201-114-5 | 015-013-00-7 | Acute Tox. 4 (H302) Eye Irrit. 2 (H319) | | 01-2119492852-28-0000 |
| Poly(oxy-1,2-ethanediy l), .alpha.-[tris(1-phenylethyl)phenyl]-.omega.-hydroxy- | 7-11 | 99734-09-5 | 619-457-8 | - | Aquatic Chronic 3 (H412) | | - |
| 2-Ethylhexan-1-ol | <0.3 | 104-76-7 | 203-234-3 | - | Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335) | | 01-2119487289-20 |

Full text of H- and EUH-phrases: see section 16

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

| | |
|---|---|
| General advice | In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). First aider: Pay attention to self-protection!. |
| Inhalation | Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately. |
| Skin Contact | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary. |
| Eye contact | Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician. |
| Ingestion | Rinse mouth. Do NOT induce vomiting. Call a physician immediately. |
| Self-protection of the first aider | Use personal protective equipment as required. |

4.2. Most important symptoms and effects, both acute and delayed

Symptoms None known.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

No information available.

5.2. Special hazards arising from the substance or mixture

No specific hazard known.

5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus
In the event of fire and/or explosion do not breathe fumes.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Use personal protective equipment as required. Avoid contact with eyes and skin. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

For emergency responders

Use personal protection recommended in Section 8.

6.2. Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections

Other Information

See also section 8,13

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling

Use personal protective equipment as required. Use only with adequate ventilation.

General Hygiene Considerations

When using do not eat, drink or smoke. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Keep out of the reach of children. Keep container tightly closed. Keep containers tightly closed in a cool, well-ventilated place.

7.3. Specific end use(s)

Risk Management Methods (RMM)

The information required is contained in this Material Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

| Chemical Name | European Union | United Kingdom | France | Spain | Germany |
|-------------------------------|---|--|---|--------|---|
| 2-Ethylhexan-1-ol 104-76-7 | | | | | TWA: 10 ppm TWA: 54 mg/m ³ Ceiling / Peak: 10 ppm Ceiling / Peak: 54 mg/m ³ TWA: 20 ppm TWA: 110 mg/m ³ |
| Chemical Name | Austria | Switzerland | Poland | Norway | Ireland |
| 2-Ethylhexan-1-ol 104-76-7 | Skin STEL 100 ppm STEL 540 mg/m ³ TWA: 50 ppm TWA: 270 mg/m ³ | STEL: 20 ppm STEL: 110 mg/m ³ TWA: 20 ppm TWA: 110 mg/m ³ | STEL: 320 mg/m ³ TWA: 160 mg/m ³ | | |

8.2. Exposure controls

| | |
|--|---|
| Engineering Controls | Ensure adequate ventilation, especially in confined areas. |
| Personal protective equipment | |
| Eye/face protection | Tight sealing safety goggles. |
| Hand Protection | Suitable chemical resistant gloves (EN 374) also with prolonged, direct contact (recommendation: protection index 6, corresponding > 480 minutes Permeability time (permeation) according to EN 374): e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm). |
| Body Protection | Use suitable protective clothing and equipment if required, such as safety goggles certified to EN 166, gloves certified to EN 374, protective boots certified to EN 13832, and/or a water repellent woven coverall with 65% polyester and 35 % cotton. |
| Respiratory protection | In case of insufficient ventilation, wear suitable respiratory equipment. |
| General Hygiene Considerations | When using do not eat, drink or smoke. Wash contaminated clothing before reuse. |
| Environmental exposure controls | Do not allow into any sewer, on the ground or into any body of water. |

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| <u>Property</u> | <u>Values</u> | <u>Method</u> | <u>Remarks</u> |
|--|-------------------|---------------|-------------------------------------|
| Appearance | | | |
| Physical state | : Liquid | | |
| Color | : brown to orange | | |
| Odor | : Pungent, sweet | | No data available |
| Odor threshold | : | | No data available |
| pH | : 5.7-6.7 | CIPAC MT 75.3 | solution (1 %) |
| Melting point/freezing point °C | : . | | No data available |
| Boiling point/boiling range °C | : . | | No data available |
| Flash point °C | : >165 | EEC A.9 | |
| Evaporation rate | : . | | Not Applicable |
| Flammability (solid, gas) | : . | | Not flammable |
| Upper/lower flammability or explosive limits | : . | | No data available |
| Vapor pressure kPa | : . | | No data available |
| Vapor density | : . | | No data available |
| Relative density | : 0.965-1.065 | OECD 109 | 20 °C |
| Solubility(ies) mg/l | : . | | No data available |
| Partition Coefficient (n-octanol/water) Log Pow | : | | See Section 12 for more information |

| | | | |
|---|--------------------|----------|-------------------|
| Autoignition temperature °C | : 435-445 | EEC A.15 | |
| Decomposition temperature °C | : . | | No data available |
| Kinematic viscosity mm ² /s 40 °C | : 8.08 | OECD 114 | |
| Explosive properties | : Not an explosive | EEC A.14 | |
| Oxidizing properties | : Not oxidizing | EEC A.21 | |

9.2. Other information

| | | | |
|-----------------------------|---|--|----------------|
| Bulk density g/ml | : | | Not Applicable |
| Surface tension mN/m | : | | Not Applicable |

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Heat, flames and sparks.

10.5. Incompatible materials

No information available

10.6. Hazardous decomposition products

None under normal use conditions.

Section 11: TOXICOLOGY INFORMATION

11.1. Information on toxicological effects

Acute toxicity

| | <u>Values</u> | <u>Species</u> | <u>Method</u> | <u>Remarks</u> |
|--|------------------------------|----------------|---------------|----------------|
| Oral LD50 mg/kg | : 3126 | Rat | OECD 425 | |
| Dermal LD50 mg/kg | : >5000 | Rat | OECD 402 | |
| Inhalation LC50 mg/l/4h | : >2.62 | Rat | OECD 403 | |
| Skin corrosion/irritation | : Non-irritating to the skin | Rabbit | OECD 404 | |
| Serious eye damage/eye irritation | : Not irritating to eyes | Rabbit | OECD 405 | |
| Respiratory/skin sensitization | : Not a skin sensitizer | Guinea pig | OECD 406 | |

Chronic toxicity

Germ cell mutagenicity

| | |
|----------------------|------------------|
| Chemical Name | |
| Cyprodinil | : Not classified |
| Isopyrazam | : Not classified |

Carcinogenicity

| | |
|----------------------|--------------------|
| Chemical Name | |
| Cyprodinil | : Not Carcinogenic |
| Isopyrazam | : Not Carcinogenic |

Reproductive toxicity

Chemical Name

Cyprodinil : Not toxic for the reproductive system
 Isopyrazam : H361d - Suspected of damaging the unborn child

STOT - single exposure

Chemical Name

Cyprodinil : No information available
 Isopyrazam : No data available

STOT - repeated exposure

Chemical Name

Cyprodinil : No information available
 Isopyrazam : No data available

Aspiration hazard

Chemical Name

Cyprodinil : No information available
 Isopyrazam : No data available

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Aquatic toxicity

| Acute toxicity | Values | Species | Method | Remarks |
|-----------------------------|---------------|---------------------|---------------|-------------------|
| Fish 96-hour LC50 mg/l | : 0.36 | Oncorhynchus mykiss | OECD 203 | |
| Crustacea 48-hour EC50 mg/l | : 0.22 | Daphnia magna | OECD 202 | |
| Algae 72-hour EC50 mg/l | : 3.2 | P. subcapitata | OECD 201 | |
| Other plants EC50 mg/l | : | | | No data available |

| Chronic aquatic toxicity | Values | Species | Method | Remarks |
|---------------------------------|---------------------|----------------|---------------|----------------|
| Fish NOEC mg/l | : No data available | | | |
| Crustacea NOEC mg/l | : No data available | | | |
| Algae NOEC mg/l | : No data available | | | |
| Other plants NOEC mg/l | : No data available | | | |

Terrestrial Toxicity

Birds Oral LD50 mg/kg

Chemical Name

Cyprodinil : >500 Mallard duck FIFRA 71-1
 Isopyrazam : >2000 C. virginianus Acute toxicity

Bees Oral LD50 µg/bee

Chemical Name

Cyprodinil : No data available Not available
 Isopyrazam : >95.5 Apis mellifera OECD 213

12.2. Persistence and degradability

| Abiotic Degradation | Values | Method | Remarks |
|----------------------------|---------------|---------------|-------------------------|
| Water DT50 days | | | |
| Chemical Name | | | |
| Cyprodinil | : >400 | | 25° C |
| Isopyrazam | : 21d | | Not persistent in water |

Soil DT50 days

Chemical Name

| | | | |
|------------|---------|-----|------------------------|
| Cyprodinil | : 31-41 | | 20° C |
| Isopyrazam | : 70d | SFO | Not persistent in soil |

Biodegradation

Chemical Name

| | |
|------------|-----------------------------|
| Cyprodinil | : Not readily biodegradable |
| Isopyrazam | : Not readily biodegradable |

12.3. Bioaccumulative potential

**Partition Coefficient (n-octanol/water) Log Pow
Chemical Name**

| | <u>Values</u> | <u>Method</u> | <u>Remarks</u> |
|------------|---------------|---------------|---------------------|
| Cyprodinil | : 4 | OECD 107 | pH 5, 7, 9 ; 25 ° C |
| Isopyrazam | : 4.1 | OECD 107 | pH 7.3 ; 25 ° C |

Bioconcentration factor (BCF)

Chemical Name

| | | | |
|------------|-------|-----------|---------------------|
| Cyprodinil | : 393 | OECD 305E | Based on whole fish |
| Isopyrazam | : 441 | | |

12.4. Mobility in soil

**Adsorption/Desorption
Chemical Name**

| | <u>Values</u> | <u>Method</u> | <u>Remarks</u> |
|------------|---------------|---------------|----------------|
| Cyprodinil | : 1536-2012 | | KOC |
| Isopyrazam | : 2416 | | .? |

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB

12.6. Other adverse effects

No information available.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

| | |
|--|---|
| Waste from residues/unused products | Disposal should be in accordance with applicable regional, national and local laws and regulations. |
| Contaminated packaging | Improper disposal or reuse of this container may be dangerous and illegal. |
| Other Information | Waste codes should be assigned by the user based on the application for which the product was used. |

Section 14: TRANSPORTATION INFORMATION

IMDG/IMO

| | |
|--|--|
| 14.1 UN/ID No * | 3082 |
| 14.2 Proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isopyrazam; Cyprodinil) |
| 14.3 Hazard Class | 9 |
| 14.4 Packing Group | III |
| 14.5 Marine pollutant | Yes |
| 14.6 Special precautions for user | |

RID/ADR

14.1 UN/ID No * 3082
 14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isopyrazam; Cyprodinil)
 14.3 Hazard Class 9
 14.4 Packing Group III
 14.5 Environmental hazard Yes
 14.6 Special precautions for user
 14.7 Tunnel restriction code -

ICAO/IATA

14.1 UN/ID No * 3082
 14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isopyrazam; Cyprodinil)
 14.3 Hazard Class 9
 14.4 Packing Group III
 14.5 Environmental hazard Yes
 14.6 Special precautions for user
 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not Applicable



* Note: UN3077 & UN3082 – These products may be transported as non-dangerous goods under the special provisions of IMDG Code 2.10.2.7; ADR SP375 and ICAO/IATA A197 when packed in single or inner packaging of up to 5L for liquids or 5 kg or less for solids.

Section 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

| Trade name | Registration number | Registration date |
|----------------|---------------------|-------------------|
| Not Applicable | Not Applicable | Not Applicable |

15.2. Chemical safety assessment

A chemical safety assessment according to regulation (EC) No. 1907/2006 is not required. A risk assessment was performed according to directive (EC) No. 91/414 or according to regulation (EC) No. 1107/2009.

Section 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

- H302 - Harmful if swallowed
- H304 - May be fatal if swallowed and enters airways
- H315 - Causes skin irritation
- H317 - May cause an allergic skin reaction
- H318 - Causes serious eye damage
- H319 - Causes serious eye irritation
- H332 - Harmful if inhaled
- H335 - May cause respiratory irritation
- H361d - Suspected of damaging the unborn child
- H400 - Very toxic to aquatic life
- H410 - Very toxic to aquatic life with long lasting effects

H411 - Toxic to aquatic life with long lasting effects
H412 - Harmful to aquatic life with long lasting effects
EUH066 - Repeated exposure may cause skin dryness or cracking

List of Acronyms

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
CAS Number - Chemical Abstracts Service number
EC Number - EINECS and ELINCS Number
EINECS - European Inventory of Existing Commercial Substances
ELINCS - European List of notified Chemical Substances
IATA - International Air Transport Association
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG - International Maritime Dangerous Goods
LC50 - Lethal Concentration to 50 % of a test population
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
OECD - Organization for Economic Co-operation and Development
PBT - Persistent, Bioaccumulative and Toxic substance
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
STOT - Specific Target Organ Toxicity
vPvB - Very Persistent and Very Bioaccumulative

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

Revision Note Changes made to the last version are labeled with this sign ***.

Process of classification evaluation in accordance with CLP regulation.

Classification of the mixture

H304 - May be fatal if swallowed and enters airways
H332 - Harmful if inhaled
H335 - May cause respiratory irritation
H361d - Suspected of damaging the unborn child
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects

Classification procedure

Classification based on test data
Classification based on test data
Classification based on Calculation method
Classification based on Calculation method
Classification based on test data
Classification based on Calculation method

Disclaimer

The information provided in this Material 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.

End of Safety Data Sheet