



## SAFETY DATA SHEET

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### ROMAN

<b>Revision Date</b>	25-March-2022	<b>Version 2</b>	<b>Product No</b> JTA/UK/102
<b>Publish Date</b>	4-March-2018		

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

### 1.1. Product identifier

ROMAN

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

<b>Recommended Use</b>	Fungicide
<b>Product Type</b>	SC (Suspension Concentrate)
<b>Uses advised against</b>	No information available

### 1.3. Details of the supplier of the safety data sheet

<b>Supplier Address</b>	JT Agro Ltd 126-134 Baker Street, London W1U 6UE, UK. Tel: +44 1628 421 890 Fax: +44 1628 421623
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For further information, please contact

<b>Email address</b>	info@jtagro-cropthetics.co.uk
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### 1.4. Emergency telephone number

<b>Emergency Telephone</b>	+44 7879 871 881
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## Section 2: HAZARD IDENTIFICATION

### 2.1. Classification of the substance or mixture

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

Serious eye damage/eye irritation, Category 2	H319
Hazardous to the aquatic environment — Chronic Hazard, Category 1	H410



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

**Adverse physicochemical, human health and environmental effects**

Causes serious eye irritation. Very toxic to aquatic life with long lasting effects

**2.2. Label elements**

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

		
<b>Hazard pictograms (CLP)</b>	GHS07	GHS09
<b>Signal Word (CLP)</b>	Warning	
<b>Hazard statements (CLP)</b>	H319 – Causes serious eye irritation H410 – Very toxic to aquatic life with long lasting effects	
<b>Precautionary statements (CLP)</b>	P264 – Wash hands, forearms and face thoroughly after handling. P273 – Avoid release to the environment. P280 – Wear eye protection, protective gloves, face protection, protective clothing. P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 – If eye irritation persists: Get medical advice/attention. P391 – Collect spillage. P501 – Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.	
<b>EUH-Statements</b>	EUH401 – To avoid risks to human health and the environment, comply with the instructions for use	

**2.3. Other hazards**

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Component	
cyazofamid (ISO); 4-chloro-2-cyano-N, N-dimethyl-5-p-tolylimidazole-1-sulfonamide (120116-88-3).	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

**3.1. Substances**

Not applicable

**3.2. Mixtures**

Name	Product Identifier	%	Classification according to Regulation (EC) No. 1272/2008 (CLP)
cyazofamid (ISO); 4-chloro-2-cyano-N, N-dimethyl-5- p-tolylimidazole-1-sulfonamide	CAS-No.: 120116-88-3 EC Index-No.: 616-166-00-8	10-20	Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
1,1,1,3,5,5,5-Heptamethyl-3-(propyl(poly(EO))hydroxy)trisiloxane	CAS-No.: 67674-67-3	10-20	Acute Tox. 4 (Inhalation), H332 Eye Dam. 1, H318 Aquatic Chronic 2, H411
Methylnaphtalenesulfonic acid/formaldehyde, copolymer, sodium salt	CAS-No.: 81065-51-2	1-5	Eye Irrit 2, H319 Aquatic Chronic 3, H412
Docusate sodium	CAS-No.: 577-11-7 EC-No.: 309-406-4	1-5	Skin Irrit 2, H315 Eye Dam. 1, H318
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3- one and 2-methyl-2H-isothiazol-3-one (3:1)	CAS-No.:55965-84-9 EC Index-No.:613-167-00-5	< 0,00046	Acute Tox. 3 (Oral), H301 Acute Tox. 2 (Dermal), H310 Acute Tox. 2 (Inhalation), H330 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)
2-methylisothiazol-3(2H)-one	CAS-No.: 2682-20-4 EC-No.: 220-249-6 EC Index-No.: 613-326-00-9	< 0,00056	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 2 (Inhalation), H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410

For explanation of abbreviations see section 16.

## Section 4: FIRST AID MEASURES

**4.1. Description of first aid measures**

First-aid measures general	Consult a doctor/medical service if you feel unwell.
First-aid measures after inhalation	Move the affected person to the fresh air. Respiratory problems: consult a doctor/medical service.
First-aid measures after skin contact	Wash skin with mild soap and water. If case of redness or irritation, call a doctor.
First-aid measures after eye contact	Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). Remove contact lenses, if present and easy to do. Continue rinsing. Consult an eye specialist.
First-aid measures after ingestion	Rinse mouth out with water. Do not induce vomiting. Consult a doctor/medical service if you feel unwell.

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

Symptoms/effects after skin contact      Repeated or prolonged contact may cause allergic reactions in very susceptible persons.  
 Symptoms/effects after eye contact      Causes serious eye damage

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

Treat Symptomatically

**Section 5: FIRE-FIGHTING MEASURES**

**5.1. Extinguishing media**

Suitable extinguishing media      All extinguishing agents can be used

**5.2. Special hazards arising from the substance or mixture**

Hazardous decomposition products in case of fire      Toxic and corrosive vapours may be released. Nitrous fumes. Sulphur oxides. Hydrofluoric Acid. hydrogenchloride. Carbon oxides (CO, CO2).

**5.3. Advice for firefighters**

Firefighting instructions      Dilute toxic gases with water spray. Contain the extinguishing fluids by bunding (the product is hazardous for the environment).  
 Protection during firefighting      Gloves. Protective non-flammable clothing. Heat/fire exposure: compressed air/oxygen apparatus. Safety glasses.  
 Other information      Do not dispose of fire-fighting water in the environment

## Section 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures Evacuate area

#### 6.1.1 For non-emergency personnel

Protective equipment For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures Avoid contact with skin and eyes. Do not breathe vapours.

#### 6.1.2 For emergency responders

Protective equipment Protective gloves. Protective clothing. Eye protection.

### 6.2. Environmental precautions

Contain the spilled material by bunding. Contain leaking substance, pump over in suitable containers. Stop leak if safe to do so. Do not flush into surface water or sewer system. Do not allow uncontrolled discharge of product into the environment

### 6.3. Methods and material for containment and cleaning up

For containment Take up liquid spill into absorbent material, e.g.:sand/earth. Shovel into suitable an closed container for disposal. Carefully collect remainder.

Methods for cleaning up Clean contaminated surfaces with an excess of water.

Other information Dispose of materials or solid residues at an authorised site.

### 6.4. Reference to other sections

For further information see section 13.

## Section 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Precautions for safe handling Do not get in eyes, on skin, or on clothing. Do not discharge the waste into drain.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke whilst using this product.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures The floor of the depot should be impermeable and designed to form a water-tight basin.

Storage conditions Keep the container hermetically sealed. Store at ambient temperature

Maximum storage period 2 years

Packaging materials Keep only in original container

### 7.3. Specific end use(s)

No additional information available.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### **8.1.1 National occupational exposure and biological limit values**

No additional information available

#### **8.1.2. Recommended monitoring procedures**

No additional information available

#### **8.1.3. Air contaminants formed**

No additional information available

#### **8.1.4. DNEL and PNEC**

No additional information available

#### **8.1.5. Control banding**

No additional information available

### 8.2. Exposure controls

#### **8.2.1. Appropriate engineering controls**

**Appropriate engineering controls:**

Provide local exhaust or general room ventilation.

#### **8.2.2. Personal protection equipment**

##### **8.2.2.1. Eye and face protection**

Eye protection:

Safety glasses

##### **8.2.2.2. Skin protection**

Skin and body protection:

Wear suitable protective clothing

##### **Hand protection:**

Protective gloves. The protective gloves to be used must comply with the specifications of the regulation 2016/425 and the resultant standard EN374. Breakthrough time : refer to the recommendations of the supplier

##### **8.2.2.3. Respiratory protection**

**Respiratory protection:**

Not necessary with sufficient ventilation

##### **8.2.2.4. Thermal hazards**

No additional information available

#### **8.2.3. Environmental exposure controls**

Avoid release into the environment

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Physical state	Liquid
Colour	Off-white
Appearance	Opaque
Odour	Odourless
Odour threshold	Not available
Melting point	Not available
Freezing point	Not available
Boiling point	Not available
Flammability	Not available
Explosive properties	Not explosive
Oxidising properties	Non oxidising
Explosive limits	Not available
Lower explosive limit (LEL)	Not available
Upper explosive limit (UEL)	Not available
Flash point	> 79 °C
Auto-ignition temperature	436 °C
Decomposition temperature	No data available
pH	Not available
pH solution	7,17 (aqueous solution 1%)
Viscosity, kinematic	Not available
Viscosity, dynamic	63 – 515 mPa.s (40°C); 156 – 914 mPa.s (20°C)
Solubility	Not available
Partition coefficient n-octanol/water (log Kow)	Not available
Vapour Pressure	Not available
Vapour pressure at 50°C	Not available
Density	Not available
Relative density	1,0809 (20 °C)
Relative vapour density at 20°C	Not available
Particle size	Not applicable
Particle size distribution	Not applicable
Particle shape	Not applicable
Particle aspect ratio	Not applicable
Particle aggregation state	Not applicable
Particle agglomeration state	Not applicable
Particle specific surface area	Not applicable
Particle dustiness	Not applicable

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

## Section 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

No dangerous reactions known under normal conditions of use

### 10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use

### 10.3. Possibility of hazardous reactions

None to our knowledge.

### 10.4. Conditions to avoid

Avoid formation of vapours

### 10.5. Incompatible materials

None to our knowledge

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11: TOXICOLOGY INFORMATION

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (Oral)	Not classified (based on available data, the classification criteria are not met).
Acute toxicity (dermal)	Not classified (based on available data, the classification criteria are not met).
Acute toxicity (inhalation)	Not classified (based on available data, the classification criteria are not met).

ROMAN	
LD50 oral rat	> 2000 mg/kg bodyweight (OECD 423 method)
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402 method)
LC50 inhalation - rat	> 5,915 mg/l (Aerosol) (OECD 403 method)

Skin corrosion/irritation	Not classified (Based on available data, the classification criteria are not met)
Additional information	Not irritating to rabbits on cutaneous application (OECD 404 method)
Serious eye damage	Causes serious eye irritation
Additional information	Irritating to rabbits on ocular application (OECD 405 method)
Respiratory or skin sensitisation	Not classified (Based on available data, the classification criteria are not met)
Additional information	Does not cause cutaneous sensitisation for guinea-pigs (OECD 406 method)
Germ cell mutagenicity	Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	Not classified (Based on available data, the classification criteria are not met)

cyazofamid (ISO); 4-chloro-2-cyano-N, N-dimethyl-5-p-tolylimidazole-1-sulfonamide (120116-88-3)	
NOAEL (chronic, oral, animal/male, 2 years)	> 171 mg/kg bodyweight /day (rat)

Reproductive toxicity Not classified (based on available data, the classification criteria are not met)



<b>cyazofamid (ISO); 4-chloro-2-cyano-N, N-dimethyl-5-p-tolylimidazole-1-sulfonamide (120116-88-3)</b>	
NOAEL (animal/male, F0/P)	89 mg/kg bw/day (rat)
NOAEL (animal/male, F1)	89 mg/kg bw/day (rat)

**STOT-Single Exposure** Not classified (Based on available data, the classification criteria are not met)

**STOT-repeated exposure** Not classified (Based on available data, the classification criteria are not met)

<b>cyazofamid (ISO); 4-chloro-2-cyano-N, N-dimethyl-5-p-tolylimidazole-1-sulfonamide (120116-88-3)</b>	
NOAEL (oral, rat, 90 days)	29,5 mg/kg bodyweight/day

**Aspiration hazard** Not classified (Based on available data, the classification criteria are not met)

**11.2. Information on other hazards**

No additional information available.

**Section 12: ECOLOGICAL INFORMATION**

**12.1. Toxicity**

Hazardous to the aquatic environment, short-term(acute) Not classified (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long-term (Chronic) Very toxic to aquatic life with long lasting effects.

<b>ROMAN</b>	
LC50 - Fish [1]	67,89 mg/l (96h) (Oncorhynchus mykiss) (OECD 203 method)
EC50 - Crustacea [1]	13,5 mg/l (48h) (Daphnia magna) (OECD 202 method)
ErC50 algae	48,71 mg/l (72h) (Pseudokirchneriella subcapitata) (OECD 201 method)
NOEC (acute)	0,5 mg/l (72 hours) (Pseudokirchneriella subcapitata) (OECD 201 method)

<b>cyazofamid (ISO); 4-chloro-2-cyano-N, N-dimethyl-5-p-tolylimidazole-1-sulfonamide (120116-88-3)</b>	
NOEC chronic fish	0,09 mg/l (28d) (Pimephales promelas)
NOEC chronic crustacea	0,011 mg/l (21d) (Daphnia magna)
NOEC chronic algae	0,023 mg/l (72h) (Selenastrum capricornutum)

**12.2. Persistence and degradability**

**cyazofamid (ISO); 4-chloro-2-cyano-N, N-dimethyl-5-p-tolylimidazole-1-sulfonamide (120116-88-3)**

Biodegradation: Not biodegradable

**Methylnaphtalenesulfonic acid/formaldehyde, copolymer, sodium salt (81065-51-2)**

Persistence and degradability Not readily degradable

**Docusate sodium (577-11-7)**

Persistence and degradability Readily biodegradable

**12.3. Bioaccumulative potential**

**cyazofamid (ISO); 4-chloro-2-cyano-N, N-dimethyl-5-p-tolylimidazole-1-sulfonamide (120116-88-3)**

BCF - Fish [1] :286 (Oncorhynchus mykiss)  
 Partition coefficient n-octanol/water (Log Pow) :3,2 (24-25°C)

**12.4 Mobility in soil**

**cyazofamid (ISO); 4-chloro-2-cyano-N, N-dimethyl-5-p-tolylimidazole-1-sulfonamide (120116-88-3)**

Organic carbon normalized Adsorption Coefficient (Log Koc) :3,13

Ecology – soil :Product adsorbs onto the soil

**12.5. Results of PBT and vPvP assessment**

**ROMAN**

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Component	
cyazofamid (ISO); 4-chloro-2-cyano-N, N-dimethyl-5- p-tolylimidazole-1-sulfonamide (120116-88-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

**12.6. Endocrine disrupting properties**

No additional information available.

**12.7 Other adverse effects**

No additional information available.

**Section 13: DISPOSAL CONSIDERATIONS**

**13.1. Waste treatment methods**

Waste treatment methods	Do not dispose of with domestic waste
Product/packaging disposal recommendations	Incinerate at a licensed installation. Dispose of in accordance with relevant local regulations.
European List of Waste (LoW) code	02 01 08* - agrochemical waste containing dangerous substances 15 01 10* - packaging containing residues of or contaminated by dangerous substances

**Section 14: TRANSPORTATION INFORMATION**

**14.1 UN Number:**

ADN: UN 3082  
ADR: UN 3082  
RID: UN 3082  
IMDG: UN 3082  
IATA: UN 3082

**14.2 UN proper shipping name:**

ADN: Environmentally hazardous substance, liquid, N.O.S. (Cyazofamid)  
ADR: Environmentally hazardous substance, liquid, N.O.S. (Cyazofamid)  
RID: Environmentally hazardous substance, liquid, N.O.S. (Cyazofamid)  
IMDG: Environmentally hazardous substance, liquid, N.O.S. (Cyazofamid)

**ROMAN (Cyazofamid 160g/l SC)**

Revision Date 25-March-2022

IATA: Environmentally hazardous substance, liquid, N.O.S. (Cyazofamid)

**Transport document description**

ADR: UN 3082, Environmentally hazardous substance, liquid, N.O.S. (Cyazofamid), 9, III, (-)

IMDG: UN 3082, Environmentally hazardous substance, liquid, N.O.S. (Cyazofamid), 9, III, Marine Pollutant

IATA: UN 3082, Environmentally hazardous substance, liquid, N.O.S. (Cyazofamid), 9, III

AND: UN 3082, Environmentally hazardous substance, liquid, N.O.S. (Cyazofamid), 9, III

RID: UN 3082, Environmentally hazardous substance, liquid, N.O.S. (Cyazofamid), 9, III

**14.3 Transport hazard class(es)**

ADN: 9

ADR: 9

RID: 9

IMDG: 9

IATA: 9

**14.4 Packing Group**

ADN: III

ADR: III

RID: III

IMDG: III

IATA: III

**14.5 Environmental hazards:**

ADN Environmentally hazardous: yes

ADR Environmentally hazardous: yes

RID Environmentally hazardous: yes


IMDG Marine pollutant: yes

Environmentally hazardous

IATA Environmentally hazardous: Yes

**14.6 Special precautions for user****Overland transport**

Special provisions (ADR) :274, 335, 375, 601

Orange Plates : 

EAC code : •3Z

**Transport by sea**

No data available

**Air transport**

No data available

**Inland waterway transport**

Classification code (ADN) : M6

Number of blue cones/lights (ADN) : 0

**Rail transport**

No data available

**14.7 Maritime transport in bulk according to IMO instruments**

Not applicable

**Section 15: REGULATORY INFORMATION**

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

Contains no REACH substances with Annex XVII restrictions  
 Contains no substance on the REACH candidate list  
 Contains no REACH Annex XIV substances  
 Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.  
 Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants  
 Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

**Section 16: OTHER INFORMATION**

**Indication of changes**

Section	Changed Item	Change	Comments
	Revision date	Modified	
	Supersedes	Modified	
1.1	Name	Modified	
3	Composition/information on ingredients	Modified	

Data sources :SDS suppliers

Full text of H-and EUH-Statements:	
Acute Tox. 2 (Dermal)	Acute toxicity (dermal), Category 2
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1

**Full text of H- and EUH-statements:**

Aquatic chronic 2 Hazardous to the aquatic environment – chronic hazard, category 2  
 Aquatic chronic 3 Hazardous to the aquatic environment – chronic hazard, category 3  
 EUH401 To avoid risks to human health and the environment, comply with the instructions for use.  
 Eye Dam. 1 Serious eye damage/eye irritation, Category 1

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H301	Toxic if swallowed
H310	Fatal in contact with skin
H311	Toxic contact with skin
H314	Causes severe burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H330	Fatal if inhaled
H332	Harmful if inhaled
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
Skin corr. 1B	Skin corrosion/irritation, category 1, sub-category 1B
Skin corr. 1C	Skin corrosion/irritation, category 1, sub-category 1C
Skin Irrit 2	Skin corrosion/irritation, category 2
Skin Sens. 1A	Skin sensitisation, category 1A

**Disclaimer**

**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.**

**End of Safety Data Sheet**

