

# **SAFETY DATA SHEET**

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

Mirage

Revision date 17-Jun-2022 Version 1.01 Supersedes Date: 28-Feb-2018 Product Code(s)

FNG56880-44

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# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

# Mirage

Other means of identification

Pure substance/mixture Mixture

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

**Recommended use Uses advised against**Fungicide; Professional use
No information available

1.3. Details of the supplier of the safety data sheet

<u>Supplier</u> 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

E-mail address ukenquiries@adama.com

1.4. Emergency telephone number

**Emergency Telephone** National Chemical Emergency Centre (UK):

Tel: 01865 407333 (24 hours)

# **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

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

Chronic aquatic toxicity Category 1 - (H410)

2.2. Label elements

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

Hazard pictograms



Signal word Warning

Hazard statements H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements P102 - Keep out of reach of children

P501 - Dispose of contents/ container to an approved waste disposal plant

**EU Specific Hazard Statements** 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

PBT & vPvB The product does not contain any substance(s) classified as PBT or vPvB.

**Endocrine Disruptor Information** None known.

Persistent Organic Pollutants Not applicable.

# **SECTION 3: Composition/information on ingredients**

## 3.1 Substances

Not applicable

## 3.2 Mixtures

Chemical name	CAS No	EC No	Index No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	M-Factor	REACH Registration Number
Prochloraz	67747-09-5	266-994-5	613-128-00-2	38 - 42	Acute Tox. 4 (H302) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	M=1 M=10	No data available
Butyrolactone	96-48-0	202-509-5		3 - 5	STOT SE 3 (H336) Eye Dam. 1 (H318) Acute Tox. 4 (H302)		01-211947183 9-21-0000
butan-1-ol	71-36-3	200-751-6	603-004-00-6	3 - 5	Flam Liq. 3 (H226) Acute Tox. 4 (H302)		01-211948463 0-38-XXXX

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STOT SE 3 (H335) Skin Irrit. 2	
(H315) Eye Dam. 1 (H318) STOT SE 3	
STOT SE 3 (H336)	

Acute toxicity estimates (ATEs) according to Part 3 of Annex VI to Regulation (EC) No 1272/2008 are indicated in this table, if available.

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 if you feel unwell, seek medical advice immediately (show the label

where possible). First aider: Pay attention to self-protection.

Inhalation Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call

a doctor.

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 doctor.

**Skin contact** Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Consult a doctor if necessary.

**Ingestion** Rinse mouth. Drink plenty of water. If symptoms persist, call a doctor.

**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 doctors Treat symptomatically.

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Small Fire Dry chemical, CO2, water spray or regular foam

Large Fire Do not scatter spilled material with high pressure water streams

Dyke fire-control water for later disposal

Water spray, fog or regular foam

Move containers from fire area if you can do it without risk

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

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Specific hazards arising from the

chemical

No information available.

5.3. Advice for firefighters

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

# **SECTION 6: Accidental release measures**

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

Personal precautions Ensure adequate ventilation.

**Health risk** Runoff from fire control may cause pollution

**Spill or leak statements**Do not touch or walk through spilled material

Stop leak if you can do it without risk

6.2. Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological Information.

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

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

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

Storage Conditions Keep container tightly closed in a dry and well-ventilated place.

## 7.3. Specific end use(s)

**Identified uses** 

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

# **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

**Exposure Limits** 

Chemical name	United Kingdom
butan-1-ol	STEL: 50 ppm
71-36-3	STEL: 154 mg/m <sup>3</sup>
	Sk*

No information available. **Derived No Effect Level (DNEL) Predicted No Effect Concentration** No information available. (PNEC)

8.2. Exposure controls

**Engineering controls** Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection

Tight sealing safety goggles.

Suitable chemical resistant gloves (EN 374) also with prolonged, direct contact Hand protection

(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).

Use suitable protective clothing and equipment if required, such as safety goggles certified Skin and body protection

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** Handle in accordance with good industrial hygiene and safety practice.

Local authorities should be advised if significant spillages cannot be contained. **Environmental exposure controls** 

# SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

<u>Property</u>	<u>Values</u>	<u>Method</u>	Remarks
Appearance			
Physical state	: Liquid		
Colour	: clear amber		
Odour	: characteristic		
Odour threshold	: No data available		
pH	: 7-8	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	: 82	EEC A.9	
Evaporation rate	: No data available		
Flammability (solid, gas)	: Not applicable		
Upper/lower flammability or	: No data available		
explosive limits			
Vapour pressure kPa	: No data available		
Vapour density	: No data available		
Relative density	: 1.130 - 1.135	OECD 109	
Solubility(ies) mg/l	: No data available		
Partition coefficient Log Pow	:		See Section 12 for additional
			Ecological Information
Autoignition temperature °C	: No data available		
Decomposition temperature °C	: No data available		
Kinematic viscosity mm2/s 40 °C	: 311*10-6	OECD 114	20°C
•			

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Surface tension: No data availableParticle Size: Not applicable

9.2. Other information

Bulk density g/ml : Not applicable

9.2.1. Information with regards to physical hazard classes
Explosive properties : Not an explosive
Oxidising properties : No data available

9.2.2. Other safety characteristics

No information available

# **SECTION 10: Stability and reactivity**

10.1. Reactivity

**Reactivity** No information available.

10.2. Chemical stability

**Stability** Stable under normal conditions.

**Explosion data** 

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

**Incompatible materials**None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

# **SECTION 11: Toxicological information**

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

Acute toxicity

		<u>Values</u>	<u>Species_</u>	<u>Method</u>	<u>Remarks                                    </u>
Oral LD50 mg/kg	:	>2000	Rat	OECD 401	
Dermal LD50 mg/kg	:	>2000	Rat	OECD 402	
Inhalation LC50 mg/l	:	>4.99	Rat	OECD 403	Maximum attainable concentration
Skin corrosion/irritation Serious eye damage/eye irritation Sensitisation	:	Non-irritating to the skin Not irritating to eyes Not a skin sensitiser	Rabbit Rabbit Guinea pig	OECD 404 OECD 405 OECD 406	

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**Chronic toxicity** 

Germ cell mutagenicity

Chemical name

Prochloraz : Not classified

Carcinogenicity

Chemical name

Prochloraz : Not Carcinogenic

Reproductive toxicity .

Chemical name

Prochloraz : Not toxic for the reproductive system

**STOT - Single Exposure** 

Chemical name

Prochloraz : Not classified

**STOT - Repeated Exposure** 

Chemical name

Prochloraz : Not classified

Aspiration hazard Chemical name

Prochloraz : Not classified

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

11.2.2. Other information

Other adverse effects No information available.

**SECTION 12: Ecological information** 

12.1. Toxicity

Acute toxicity Values Species Method Remarks

Fish 96-hour LC50 mg/l : 3.05 Oncorhynchus mykiss OECD 203
Crustacea 48-hour EC50 mg/l : 4.0 Daphnia magna OECD 202
Algae 72-hour EC50 mg/l : 1.42 Selenastrum OECD 201

capricornutum

Other plants EC50 mg/l : No data available No data available

<u>Chronic aquatic toxicity</u> <u>Values</u> <u>Species</u> <u>Method</u> <u>Remarks</u>

Fish NOEC mg/l : No data available

Crustacea NOEC mg/l : 0.010 Mesocosm 79d

Algae NOEC mg/l : No data available Other plants NOEC mg/l : No data available

Terrestrial Toxicity
Birds Oral LD50 mg/kg

Chemical name

Prochloraz : 624 Bobwhite quail US EPA 71-1

Bees Oral LD50 µg/bee

Chemical name

Prochloraz : 14.89 Apis mellifera WD 7/3, MAFF UK contact

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12.2. Persistence and degradability

Abiotic Degradation Water DT50 days Chemical name

Prochloraz : 3.5

Soil DT50 days Chemical name

Prochloraz : 223.62

Biodegradation Chemical name

Prochloraz : Not readily biodegradable OECD 301 D

12.3. Bioaccumulative potential

Partition Coefficient <u>Values</u> <u>Method</u> <u>Remarks</u>

(n-octanol/water) Log Pow Chemical name

Prochloraz : 4.3 EEC A.8

**Bioconcentration factor (BCF)** 

Chemical name

Prochloraz : 150-247

12.4. Mobility in soil

Adsorption/Desorption Values Method Remarks

Chemical name

Prochloraz : 1222-8654 KOC

**Endocrine Disruptor Information** 

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. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

12.7. Other adverse effects

No information available.

# SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

**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: Transport information**

<u>ADR</u>

**14.1 UN number** UN3082

14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Prochloraz)

14.3 Transport hazard class(es)

III

14.4 Packing group

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Prochloraz), 9, III

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14.5 Environmental hazard Yes

14.6 Special Precautions for Users

**Special Provisions** 274, 335, 601, 375

Classification code M6

<u>RID</u>

**14.1 UN number** UN3082

14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Prochloraz)

14.3 Transport hazard class(es) 9
14.4 Packing group | | | |

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Prochloraz), 9, III

Environmental hazard Yes

**Special Precautions for Users** 

14.5 Environmental hazard Yes

14.6 Special Precautions for Users

**Special Provisions** 274, 335, 375, 601

Classification code M6

**IMDG** 

**14.1 UN number** UN3082

**14.2 UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Prochloraz)

14.3 Transport hazard class(es) 9
14.4 Packing group ||||

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Prochloraz), 9, III, Marine pollutant

14.5 Environmental hazard Yes

14.6 Special Precautions for Users14.5 Marine pollutant PEnvironmental hazard Yes

14.6 Special Precautions for Users

Special Provisions 274, 335, 969 EmS-No F-A, S-F

**IMDG Stowage and segregation** Category A No information available

**14.7 Maritime transport in bulk** No information available

according to IMO instruments

IATA

**14.1 UN number** UN3082

**14.2 UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Prochloraz)

14.3 Transport hazard class(es) 9
14.4 Packing group |||

**Description** UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Prochloraz), 9, III

14.5 Environmental hazard Yes

14.6 Special Precautions for Users

Special Provisions A97, A158, A197

ERG Code 9L



<sup>\*</sup> 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

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# **SECTION 15: Regulatory information**

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

## National regulations

Trade name / designation Registration Number(s) Date

Not Applicable Not Applicable Not Applicable

### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

### Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

### **Persistent Organic Pollutants**

Not applicable

### 15.2. Chemical safety assessment

Chemical Safety Report A risk assessment was performed according to directive (EC) No. 91/414 or according to

regulation (EC) No. 1107/2009

# **SECTION 16: Other information**

### Key or legend to abbreviations and acronyms used in the safety data sheet

## Full text of H-Statements referred to under section 3

H226 - Flammable liquid and vapour

H302 - Harmful if swallowed

H315 - Causes skin irritation

H318 - Causes serious eye damage

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

### Legend

SVHC: Substances of Very High Concern for Authorisation:

#### Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

Revision date 17-Jun-2022

Reason for revision Changes made to the last version are labeled with this sign \*\*\*

Abbreviations and 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

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

### Classification of the mixture

Classification procedure

H410 - Very toxic to aquatic life with long lasting effects

Classification based on test data

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

#### **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**