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

- 1.1. Product identifier CLAYTON PATRIOT
- 1.2. Relevant identified uses of the substance or mixture and uses advised. FUNGICIDE
- 1.3. Details of the supplier of the safety data sheet: Marketing Company in UK

Clayton Plant Protection (UK) Ltd., Bracetown Business Park, Clonee, Dublin15. Ireland.

Tel: (00 353) 1 8210127 www.claytonpp.com Email: info@claytonpp.com

#### **SECTION 2: Hazards Identification**

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

H411 Hazardous to the aquatic environment — Chronic Hazard, Category 2

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects: Toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

Labelling in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Pictogram:

CLP Signal Word: -

Hazard statements (CLP)

H411 - Toxic to aquatic life with long lasting effects Precautionary

statements (CLP):

P102 - Keep out of reach of children

P234 - Keep only in original container

P270 - Do not eat, drink or smoke when using this product

P273 - Avoid release to the environment

P391 - Collect spillage

P501 - Dispose of contents/container to Collection point EUH-statements

EUH401 - To avoid risks to human health and the environment, comply with the instructions for use Extra phrases :

SP 1 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 additional information available

# **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]
Pyrimethanil	(CAS-No.) 53112-28-0 (EC Index-No.) 612-240-00-9	37	Aquatic Chronic 2, H411
PROPYLENE GLYCOL substance with national workplace exposure limit(s) (GB, IE, LT, LV)	(CAS-No.) 57-55-6 (EC-No.) 200-338-0 (REACH-no) 01-2119456809- 23	< 10	Not classified
1,2-benzisothiazol-3(2H)-one	(CAS-No.) 2634-33-5 (EC-No.) 220-120-9 (EC Index-No.) 613-088-00-6	< 0.5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410

Specific concentration limits:

Name	Product identifier	Specific concentration limits
1,2-benzisothiazol-3(2H)-one	(CAS-No.) 2634-33-5 (EC-No.) 220- 120-9 (EC Index-No.) 613-088-00-6	(C >= 0.05) Skin Sens. 1, H317

Full text of H-statements: see section 16



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### **SECTION 4: First aid measures**

4.1. Description of first aid measures

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing. IF INHALED: if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen. If breathing stops, give artificial respiration. In all cases of doubt, or when symptoms persist, seek medical attention.

First-aid measures after skin contact: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. If skin irritation occurs: Get medical advice/attention. Wash skin with plenty

First-aid measures after eye contact: Rinse immediately with plenty of water, also under the eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice and attention. Rinse eyes with water as a precaution.

First-aid measures after ingestion: If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. Get immediate medical advice and attention. Call a poison centre or a doctor if you feel unwell.

- 4.2. Most important symptoms and effects, both acute and delayed: No additional information available
- 4.3. Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

# **SECTION 5: Firefighting measures**

5.1. Extinguishing media

Suitable extinguishing media: AFFF foam. dry chemical powder. Carbon dioxide (CO2). Water fog. Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire: Toxic fumes may be released.

5.3. Advice for firefighters.

Protection during firefighting: Wear suitable protective clothing. In case of inadequate ventilation wear respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

# **SECTION 6: Accidental release measures**

- 6.1. Personal precautions, protective equipment and emergency procedures
- 6.1.1. For non-emergency personnel Emergency procedures : Ventilate spillage area. Evacuate the danger area. Provide adequate ventilation to minimize dust and/or vapour concentrations. Consult an expert. Eliminate every possible source of ignition.
- 6.1.2. For emergency responders Protective equipment: Do not attempt to take action without suitable protective equipment. Wear self-contained breathing apparatus, rubber boots and thick rubber gloves. For further information refer to section 8: "Exposure controls/personal protection".
- 6.2. Environmental precautions Avoid release to the environment. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Notify authorities if product enters sewers or public waters.
- 6.3. Methods and material for containment and cleaning up

For containment: Prevent liquid from entering sewers, watercourses, underground or low areas. Impound and recover large spill by mixing it with inert granular solids. Collect spillage.

Methods for cleaning up: Take up liquid spill into absorbent material. Clean up any spills as soon as possible, using an absorbent material to collect it.

Other information: Avoid spilling the product, as this might cause falls. Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections Exposure controls/personal protection. Disposal considerations. For further information refer to section 13.

# **SECTION 7: Handling and storage**

7.1. Precautions for safe handling

Precautions for safe handling: Ensure good ventilation of the work station. Wear personal protective equipment. Handle in accordance with good industrial hygiene and safety procedures. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not allow to enter into surface water or drains.

Handling temperature: Store at room temperature

Hygiene measures: Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep out of direct sunlight. Store in a well-ventilated place. Keep cool.

Maximum storage period : 2 year(s) Storage temperature : > 0 °C 7.3.

Specific end use(s) No additional information available

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

8.1. Control parameters

PROPYLENE GLYCOL (57-55-6. United Kingdom Local name Propane-1,2-diol



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United Kingdom WEL TWA (mg/m³) 10 mg/m³ particulates 474 mg/m³ total vapour and particulates

United Kingdom WEL TWA (ppm) 150 ppm total vapour and particulates

8.2. Exposure controls

Appropriate engineering controls: Ensure good ventilation of the work station.

Hand protection: Protective gloves

Eye protection: Face shield. Chemical goggles or safety glasses. Safety glasses

Skin and body protection: Wear suitable protective clothing

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment

Environmental exposure controls: Notify authorities if product enters sewers or public waters. Avoid release to the

environment.

# **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

Physical state: Liquid Colour Decomposition temperature: No data available : white. Flammability (solid, gas): Not applicable Odour: Low. Vapour pressure: No data available Odour threshold: No data available Relative vapour density at 20 °C : No data available pH: 5.8 Relative density: No data available Relative evaporation rate (butylacetate=1): No data Density: 1.08 g/ml (20°C) Solubility: No data available available Log Pow : No data available Melting point: Not applicable Viscosity, kinematic : No data available Freezing point : No data available Viscosity, dynamic: 799 cP (25°C) Boiling point : No data available Explosive properties: Product is not explosive. Flash point : > 110 °C Oxidising properties : No data available

Auto-ignition temperature : > 600 °C

9.2. Other information No additional information available

# **SECTION 10: Stability and reactivity**

10.1. Reactivity When exposed to heat, may decompose liberating hazardous gases.

10.2. Chemical stability Stable under normal conditions of use.

10.3. Possibility of hazardous reactions None under normal conditions.

For further information, refer to section 10: "Stability and Reactivity".

Explosive limits : No data available

10.4. Conditions to avoid Keep out of direct sunlight. Keep away from heat, hot surfaces, sparks, open flames and

other ignition sources. No smoking.

10.5. Incompatible materials Strong acids. Strong bases. Strong oxidizing agents.

10.6. Hazardous decomposition products When heated to decomposition, emits dangerous fumes. Carbon dioxide

(CO2). Carbon monoxide. Nitrogen oxides.

#### **SECTION 11: Toxicological information**

11.1. Information on toxicological effects Acute

toxicity: Not classified

toxicity . Not classified	
PYRUS 400 SC	LD50 oral rat > 2000 mg/kg LD50
	dermal rat > 2000 mg/kg
	LC50 inhalation rat (mg/l) > 2.6 mg/l/4h
Pyrimethanil (53112-28-0)	LD50 oral rat 4149 mg/kg male
	LD50 dermal rat > 5000 mg/kg
	LC50 inhalation rat (mg/l) > 1.98 mg/l/4h
PROPYLENE GLYCOL (57-55-6)	LD50 oral rat > 2000 mg/kg
	LD50 dermal rabbit > 2000 mg/kg
1,2-benzisothiazol-3(2H)-one (2634-33-5)	LD50 oral 670 mg/kg

Skin corrosion/irritation: Not classified pH: 5.8 Serious eye damage/irritation: Not classified pH: 5.8 Respiratory or skin sensitisation: Not classified Germ cell mutagenicity: Not classified Carcinogenicity

: Not classified

Reproductive toxicity: Not classified STOT-single exposure: Not classified STOT-repeated exposure: Not classified Aspiration hazard: Not classified

PYRUS 400 SC - Viscosity, kinematic - 739.81481481 mm²/s



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# **SECTION 12: Ecological information**

12.1. Toxicity

Ecology - general: Toxic to aquatic life with long lasting effects.

PYRUS 400 SC LC50 fish 1 61.7 mg/l (96h) EC50 Daphnia 1 8.22 mg/l (48h) ErC50 (algae) 44.5 mg/l (72h) Pyrimethanil (53112-28-0) LC50 fish 1 10.56 mg/l (96h Salmo gairdneri) EC50 Daphnia 1 2.9 mg/l (48h Daphnia magna) ErC50 (algae) 5.84 mg/l (96h Green algae) NOEC chronic crustacea 0.94 mg/l (21d Daphnia magna) PROPYLENE GLYCOL (57-55-6) LC50 fish 1 > 100 mg/l EC50 Daphnia 1 > 100 mg/l ErC50 (algae) > 100 mg/l 1,2-benzisothiazol-3(2H)-one (2634-33-5) LC50 fish 1 1.3 mg/l EC50 Daphnia 1 0.99 mg/l ErC50 (algae) 0.084 mg/l NOEC chronic fish 0.74 mg/l NOEC chronic crustacea 0.7 mg/l NOEC chronic algae 0.043 mg/l

12.2. Persistence and degradability

Pyrimethanil (53112-28-0) Persistence and degradability May cause long-term adverse effects in the environment. PROPYLENE GLYCOL (57-55-6) Biochemical oxygen demand (BOD)  $0.86 \text{ g O}_2/\text{g}$  substance BOD5 Chemical oxygen demand (COD)  $1.585 \text{ g O}_2/\text{g}$  substance

12.3. Bioaccumulative potential

Pyrimethanil (53112-28-0) Bioaccumulative potential Not established.

PROPYLENE GLYCOL (57-55-6) Log Pow -1

12.4. Mobility in soil

PYRUS 400 SC Surface tension 51.33 mN/m (25°C)

Pyrimethanil (53112-28-0) Surface tension 61.51 mN/m (20°C; 90%)

12.5. Results of PBT and vPvB assessment No additional information available

12.6. Other adverse effects No additional information available

# **SECTION 13: Disposal considerations**

13.1. Waste treatment methods: Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Dispose of contents/container in accordance with licensed collector's sorting instructions.

# **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number 3082

14.2. UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S... Transport document description UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Pyrimethanil), 9, III, (E) MARINE POLLUTANT

14.3. Transport hazard class(es) 9

	ADR	IMDG	IATA	AND	RID
					REGILLAGIST V
14.4. Packing	III	III	III	III	III
group					
14.5 Environmental			Dangerous for		Dangerous for
hazards	environment : Yes		the environment :	the environment:	the environment :
		Marine pollutant :	Yes	Yes	Yes
		Yes			
	No supplementary information available				

# 14.6. Special precautions for user – Overland

transport

Classification code (ADR): M6

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

Limited quantities (ADR): 5I Excepted quantities (ADR): E1

Packing instructions (ADR): P001, IBC03, LP01, R001

Special packing provisions (ADR): PP1 Mixed packing provisions (ADR): MP19

Portable tank and bulk container instructions (ADR): T4

Portable tank and bulk container special provisions (ADR): TP1, TP29

Tank code (ADR): LGBV Vehicle for tank carriage: AT Transport category (ADR): 3

Special provisions for carriage - Packages (ADR): V12



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Special provisions for carriage - Loading, unloading and handling (ADR): CV13

Hazard identification number (Kemler No.): 90 Orange plates:

90 3082

Tunnel restriction code: E EAC

code : •3Z –

Transport by sea

Special provisions (IMDG): 274, 335 Limited quantities (IMDG): 5 L Excepted quantities (IMDG): E1

Packing instructions (IMDG): P001, LP01 Special packing provisions (IMDG): PP1 IBC packing instructions (IMDG): IBC03

Tank instructions (IMDG): T4

Tank special provisions (IMDG): TP2, TP29

EmS-No. (Fire): F-A EmS-No. (Spillage): S-F Stowage category (IMDG): A

Air transport

PCA Excepted quantities (IATA): E1 PCA Limited quantities (IATA): Y964

PCA limited quantity max net quantity (IATA): 30kgG

PCA packing instructions (IATA): 964 PCA max net quantity (IATA): 450L CAO packing instructions (IATA): 964 CAO max net quantity (IATA): 450L Special provisions (IATA): A97, A158

ERG code (IATA): 9L

Inland waterway transport

Classification code (ADN): M6

Special provisions (ADN): 274, 335, 601

Limited quantities (ADN): 5 L
Excepted quantities (ADN): E1
Carriage permitted (ADN): T
Equipment required (ADN): PP
Number of blue cones/lights (ADN): 0

Rail transport

Classification code (RID): M6

Special provisions (RID): 274, 335, 601

Limited quantities (RID): 5L Excepted quantities (RID): E1

Packing instructions (RID): P001, IBC03, LP01, R001

Special packing provisions (RID): PP1 Mixed packing provisions (RID): MP19

Portable tank and bulk container instructions (RID): T4

Portable tank and bulk container special provisions (RID): TP1, TP29

Tank codes for RID tanks (RID): LGBV

Transport category (RID): 3

Special provisions for carriage – Packages (RID): W12

Special provisions for carriage - Loading, unloading and handling (RID): CW13, CW31

Colis express (express parcels) (RID) : CE8 Hazard identification number (RID) : 90

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable

# **SECTION 15: Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture 15.1.1. EU-Regulations The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in	PYRUS 400
accordance with Directive 1999/45/EC or are fulfilling the criteria for any	
of the following hazard classes or categories set out in Annex I to	
Regulation (EC) No 1272/2008	

PYRUS 400 SC		



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3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic	1,2-benzisothiazol-3(2H)-one
effects, 3.9 and 3.10  3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	PYRUS 400 SC - 1,2-benzisothiazol- 3(2H)-one - Pyrimethanil

Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

15.1.2. National regulations: No additional information available

15.2. Chemical safety assessment: No chemical safety assessment has been carried out

#### **SECTION 16: Other information**

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral) Acute toxicity (oral), 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 Aquatic

Chronic 2 Hazardous to the aquatic environment — Chronic Hazard, Category 2

Eye Dam. 1 Serious eye damage/eye irritation, Category 1

Skin Irrit. 2 Skin corrosion/irritation, Category 2

Skin Sens. 1 Skin sensitisation, Category 1

H302 Harmful if swallowed

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H318 Causes serious eye damage

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

EUH401 To avoid risks to human health and the environment, comply with the instructions for use Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]: Aquatic Chronic 2 H411 Calculation method

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.

