CLAYTON PLANT PROTECTION

CLAYTON NEUTRON Safety Data Sheet according to Regulation (EU) No. 453/2010. Version 2/dsc 20/10/2020
This version replaces all previous versions

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

1.1. Product identifier CLAYTON NEUTRON MAPP 19563
1.2. Relevant identified uses of the substance or mixture and uses advised. HERBICIDE
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 according to Regulation (EC) No. 1272/2008 [CLP]
Acute toxicity - Oral Category 4 (H302)
Acute aquatic toxicity Category 1 (H400)
Hazardous to the Aquatic Environment – Chronic hazard. (H410)

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

Hazard pictograms :

Signal word Warning
Hazard Statements H302 - Harmful if swallowed
H410 - Very toxic to aquatic life with long lasting effects
Precautionary Statements P102 - Keep out of reach of children
P270 - Do not eat, drink or smoke when using this product
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
EUH208 - Contains reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one. May produce an allergic reaction
Additional phrases for PPP SP1 - Do not contaminate water with the product or its container
2.3. Other hazards - No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Weight %	CAS No	EC No	Index No.	Classification according to Regulation (EC) No. 1272/2008 [CLP]	M-Factor	REACH Registration Number
Metamitron	55-62	41394-05-2	255-349-3	613-129-00-8	Acute Tox. 4 (H302) Aquatic Acute 1 (H400)	Xn; R22 N; R50	-
Glycerol	4-6	56-81-5	200-289-5	-	-		-
Propane-1 2,-diol	2-4	57-55-6	200-338-0	-	-		-
Reaction mass of 5chloro-2methyl-4isothiazolin3-0ne and 2-methyl-4isothiazolin3-one	<0.01	55965-84-9	-	613-167-00-5	Acute tox 3(H301) Acute tox 2(H310) Acute tox 2 (H330) Skin corr 1C (H314) Eye dam 1(H318) Skin Sens 1A(H317) Aquatic tox 1 (H400) Aquatic chronic 1 (H410) EUH071	 M=100 M=100	-

Full text of H and EUH-phrases: see section 16
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.
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. Drink plenty of water. If symptoms persist, call a physician.
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.
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.
6.3. Methods and material for containment and cleaning up
Methods for 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. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product.
General Hygiene Considerations - When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.
7.2. Conditions for safe storage, including any incompatibilities
Storage Conditions - Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.
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	EU	UK	France	Spain	Germany
Glycerol 56-81-5		STEL 30mg/m3 TWA 10mg/m3	TWA 10mg/m3	TWA 10mg/m3	TWA 50mg/m3 Ceiling/Peak 100mg/m3
Propane 1,2 diol 57-55-6		STEL 450ppm STEL 1422 mg/m3 STEL 30mg.m3 TWA 150ppm TWA 474m.m3 TWA 10mg/m3			
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark

Glycerol 56-81-5		TWA 10mg/m3		TWA 20mg/m3	
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Glycerol 56-81-5		STEL 100mg/m3 TWA 50mg/m3	TWA 10mg/m3		TWA 10mg/m3
Propane 1,2 diol 57-55-6				TWA 25mg/m3 TWA 79mg/m3 STEL 37.5ppm STEL 118.5mg/m3	TWA 150ppm TWA 470mg/m3 TWA 10mg/m3

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 (EN374) also with prolonged, direct contact (recommendation protection index 6, corresponding > 480 minutes permeabiity time (permeation) according to EN374), eg nitrile rubber (0.4mm), chloroprene rubber (0,5mm), butyl rubber (0.7mm).
Body Protection - Suitable protective clothing and equipment if required such as safety goggle certified to EN166, gloves certified to EN374, protective boots certified to EN13832 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. Do not eat, drink or smoke when using this product.
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

Property	**Values**	**Method**	**Remarks**
Appearance			
Physical state :	liquid		
Colour :	beige		
Odour :	Slight		
Odour threshold :	No data available		
pH :	5.8 - 6.8	CIPAC MT 75	solution (1 %)
Melting point/freezing point °C :	----		Not Applicable
Boiling point/boiling range °C :	No data available		
Flash point °C :	> 73		
Evaporation rate :	Not Applicable		
Flammability (solid, gas) :	Not applicable for liquids		
Upper/lower flammability or explosive limits :	No data available		
Vapour pressure kPa :	Not Applicable		
Vapour density :	No data available		
Relative density :	1.15 – 1.25	OECD 109	
Solubility(ies) mg/l :	----	Not Applicable	
Partition Coefficient (n-octanol/water) Log Pow :		See Section 12 for more information	
Autoignition temperature °C :	475	EEC A.15	
Decomposition temperature °C :	No data available		
Kinematic viscosity mm2/s 40°C :	130	CIPAC MT 114	20 °C
Explosive properties :	Not an explosive	EEC A.14	
Oxidizing properties :	Not oxidizing		

9.2. Other information
Bulk density g/ml : ---- Not Applicable
Surface tension mN/m : 51.5 OECD 115

Section 10: STABILITY AND REACTIVITY
10.1. Reactivity - Not 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

	Values	Species	Method	Remarks
Oral LD50 mg/kg :	300-2000	Rat	OECD 423	
Dermal LD50 mg/kg :	> 4000	Rat	OECD 402	
Inhalation LC50 mg/l/4h :	> 1.878	Rat	OECD 403	Maximum attainable concentration
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 sensitisation : Not a skin sensitiser. Guinea pig OECD402 Chronic toxicity

Germ cell mutagenicity - Chemical Name Metamitron : Not classified

Carcinogenicity - Chemical Name Metamitron : Not Carcinogenic

Reproductive toxicity . Chemical Name Metamitron : Not toxic for the reproductive system

STOT - single exposure Chemical Name Metamitron : No data available

STOT - repeated exposure Chemical Name Metamitron : No data available

Aspiration hazard Chemical Name Metamitron : No data available

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Aquatic toxicity

Acute toxicity	Values	Species	Method	Remarks
Fish 96-hour LC50 mg/l : >	200	Oncorhynchus mykiss	OECD 203	
Crustacea 48-hour EC50 mg/l :	136.1	Daphnia magna	OECD 202	
Algae 72-hour EC50 mg/l :	0.56	P. subcapitata	OECD 201	
Other plants EC50 mg/l:	2.51	Lemna	OECD 221	7 days
Chronic aquatic toxicity				
Fish NOEC mg/l	no data available			
Crustacea NOEC mg/l	no data available			
Algae NOEC mg/l	0.042	P. subcaptiata	OECD 201	
Other plants NOEC mg/l	0.086	Lemna minor	OECD 221	
Terrestrial Toxicity				
Birds Oral LD50 mg/kg				
Chemical Name Metamitron :	1302	Japanese quail	OECD 401	
Bees Oral LD50 µg/ bee				
Chemical Name Metamitron :	> 97.2		OECD 213	

12.2. Persistence and degradability

Abiotic Degradation	Values	Method	Remarks
Water DT50 days			
Chemical Name Metamitron :	8.4 – 49.8	BBA IV: 5-1	pH 5 – 8.04, 20 ° C
Soil DT50 days			
Chemical Name Metamitron :	3.3 – 36.7		pH 5.1-7.5

Biodegradation

Chemical Name Metamitron : Not readily biodegradable OECD 301 D 12.3. Bioaccumulative potential

Partition Coefficient	Values	Method	Remarks
(n-octanol/water) Log Pow			
Chemical Name Metamitron :	0.85	OECD 107	21 ° C

Bioconcentration factor (BCF)

Chemical Name Metamitron : No data available

12.4. Mobility in soil

Adsorption/Desorption	Values	Method	Remarks
Chemical Name Metamitron :	112.8		Koc

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. (Metamitron)
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. (Metamitron)
14.3 Hazard Class 9
14.4 Packing Group III
14.5 Environmental hazard Yes
14.6 Special precautions for user
ICAO/IATA
14.1 UN/ID No 3082
14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Metamitron)
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 Not Applicable
Annex II of MARPOL 73/78 and the IBC Code

Section 15: REGULATORY INFORMATION
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
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 and 3
H301 Toxic if swallowed
H302 Harmful if swallowed
H310 Fatal in contact with skin
H311 Toxic in contact with skin
H314 Causes severe skin burns and eye damage
H317 May cause an allergic skin reaction
H318 Causes serious eye damage
H330 Fatal if inhaled
H331 Toxic if inhaled
H351 Suspected of causing cancer
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects
EUH071 Corrosive to the respiratory tract

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

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.