**<u>CLAYTON TASSEL</u>** Safety Data Sheet according to Regulation (EC) No. 2015/830. Version 1/dsc 03/04/2020. This version replaces all previous versions.

#### 1. IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

<u>1.1 Product identifier CLAYTON TASSEL</u> <u>1.2 Relevant identified uses of the mixture and uses</u> advised against

#### 1.2.1 Relevant identified uses

A selective herbicide for the control of annual broad-leaved weeds and barnyard grass in grain and forage maize

1.2.2 Uses advised against

Do not use for any other

purpose.

#### 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

#### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Additional information : For abbreviations, refer to Section 16.

#### 2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 Hazard pictograms



Signal Word : Danger

Hazard Statements:

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H410: Very toxic to aquatic life with long lasting effects

Precautionary Statements:

General:

Prevention: P261: Avoid breathing spray.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

- Response: P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
- P305 + 351 + 338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310: Immediately call a POISON CENTRE or doctor/physician. P333 + 313: If skin irritation or rash occurs: Get medical advice/attention.
  - P391: Collect spillage

Storage:

Disposal: P501: Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for triple rinsed empty containers which can be disposed of as

nonhazardous waste <u>Supplemental information:</u>

- EUH401: To avoid risks to human health and the environment, comply with the instructions for use.
- SP 1: Do not contaminate water with the product or its container SPo
  - 2: Wash all protective clothing after use.

2.3 Other hazards : None known



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#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

# <u>3.2 Mixtures</u>

**Description of the mixture:** Mixture of mesotrione and co-formulants

Chemical Name	CAS-No.	EC-No.	Index No.	Concentration (W/W)	CLP (Reg. 1272/2008) Classification
Mesotrione	104206-82-8	-	-	10 %	Aquatic acute 1; H400 Aquatic chronic 1; H410
n-octanol	111-87-5	203-917-6	-	5 – 10%	Skin Irrit. 2; H315 Eye Irrit. 2; H319
Ethoxylated polyarylphenol acid phosphate	90093-37-1	-	-	0-5%	Skin Irrit. 2; H315 Eye Irrit. 2; H319
Ethoxylated fatty alcohol	68526-85-2	-	-	20-30%	Acute Tox. 4; H302 Eye Dam. 1; H318
Phosphoric Acid 85%	7664-38-2	231-633-2	015-011-00-6	0-5%	Skin Corr. 1B; H314
Other ingredients				to 100%	Not classified

Additional information : For full text of H-phrases and abbreviations, see Section 16.

#### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

#### General notes:

If symptoms occur after exposure to this product, seek medical attention immediately and show the product label or this SDS. Remove to fresh air and keep at rest. Do not allow smoking or eating. Take off all contaminated clothing and footwear.

#### Following inhalation:

Remove to fresh air and keep at rest in half-upright position. Seek medical attention immediately. **Following skin contact:** 

Remove all contaminated clothing. Wash skin with soap and rinse with plenty of water. Seek medical attention if irritation arises. Wash clothes before re-use.

#### Following eye contact:

Immediately rinse with water. Holding eyes open, continue rinsing for 15 minutes at least. Remove contact lenses as soon as possible. Seek medical attention immediately.

#### Following ingestion:

If swallowed, DO NOT INDUCE VOMITING: seek medical advice immediately and show this container or label. Remove any residues from mouth and rinse it with plenty of water. Offer the casualty 1 or 2 glasses of water to drink. Never give anything by mouth to an unconscious person.

#### Self-protection of first aider

Personal protective equipment for first aid responders is recommended according to potential for exposure (refer to Section 8).

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

The symptoms and the effects indicated in this section refer to an accidental exposure scenario. **Following inhalation:** 

Possible slight nasal irritation and discharge. No delayed effects expected.

#### Following skin contact:

Possible irritation and redness. May cause an allergic skin reaction following repeated contact. **Following eye contact:** 

Possible serious irritation and redness. May cause serious and potentially irreversible eye damage. **Following ingestion:** 

Possible mild gastrointestinal effects. No delayed effects expected.

#### 4.3 Indication of immediate medical attention and special treatment needed

No need to provide any special means/medicinal products for immediate treatment at the workplace.



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#### Notes for the doctor:

No specific antidote. Treat symptomatically (decontamination, vital functions). Call a Poison Centre immediately for treatment advice. In case of ingestion gastric lavage may be necessary (with proper laryngeal control). Before emptying the stomach, assess the potential danger arising from lung aspiration against the product toxicity.

#### **5. FIRE FIGHTING MEASURES**

#### 5.1 Extinguishing media

**Suitable extinguishing media :** Carbon dioxide, water spray, alcohol-resistant foam, dry chemical for small fires, alcohol-resistant foam or water spray for large fires.

Unsuitable extinguishing media: Solid water jet.

#### 5.2 Special hazards arising from the mixture

Hazardous combustion products : Evolves toxic and corrosive fumes in fire including carbon oxides, nitrogen and sulphur oxides, hydrogen cyanide

#### 5.3 Advice for fire-fighters

Clothing conforming to EN469 should be sufficient to deal with fires involving the mixture.

However, a Self-Contained Breathing Apparatus (SCBA) may be required if there is a potential for exposure to combustion fumes.

#### 5.4 Additional information

Provide storage and work areas with suitable fire extinguishers.

Call the Fire Brigade at once to deal with all fires involving pesticides unless the fire is small and immediately controllable. Spray unopened containers with a mist spray to keep cool. If without risk, remove intact containers from exposure to fire. Contain fire-fighting water, bunding if necessary with sand or earth. Do not allow contamination of public drains or surface or ground waters. Dispose of fire debris and contaminated water as advised in the MAFF/HSE "Pesticides: Code of Practice for the Safe Use of Pesticides on Farms and Holdings".

### 6. ACCIDENTAL RELEASE MEASURES

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

#### 6.1.1 For non-emergency personnel

<u>Protective equipment:</u> Remove immediately any contaminated clothing. Wear prescribed personal protective equipment to prevent contact with eyes and skin. A Self-Contained Breathing Apparatus (SCBA) may be required if there is an elevated risk for exposure.

<u>Emergency procedures:</u> Call the emergency services if the release is not immediately controllable. If the release is localized and immediately controllable, provide sufficient ventilation and control the release at its source.

6.1.2 For emergency responders : Clothing conforming to EN469.

#### 6.2 Environmental precautions

Use appropriate containment to avoid environmental contamination. Control the release at its source. Contain the spill to prevent it from spreading, contaminating soil or entering sewage and drainage systems or any body of water. Inform the local water company if the release enters drains and the Environment Agency (England and Wales), the Scottish Environmental Protection Agency (Scotland) or the Environment and Heritage Service (Northern Ireland) if it enters surface or ground waters.

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

#### For containment

Clean up spills immediately and place in a compatible disposal container. Contain spill by diking with earth, sand or non-combustible absorbent material and place into a compatible marked disposal container.

#### For cleaning up

Scrub area with a hard water detergent. Soak up wash liquid with additional absorbent material and place into a compatible marked disposal container. Seal container and arrange for disposal.

# Other information : Not Applicable

## 6.4 Reference to other sections

Refer to Section 8 for personal protective equipment and to Section 13 for disposal instructions.

#### 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Provide suitable ventilation in the areas where the product is stored and used. Contaminated



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work clothing should not be allowed out of the workplace. Avoid all contact by mouth, with eyes and skin. Wear personal protective equipment as specified in Section 8. When using, do not eat, drink or smoke. Remove contaminated clothing and protective equipment before meals and after work. Wash hands and exposed skin before meals and after work. Wash all protective clothing thoroughly after use, especially the insides of gloves.

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

The mixture is stable under normal ambient conditions. Keep in original container, in a dry, cool and safe place. Store in a locked, suitable store. Keep away from any source of ignition. Keep out of the reach of children and unauthorised personnel. Keep away from food, drink and animal feeding stuffs.

### 7.3 Specific end use(s)

**8.1 Control Parameters** 

The product is for professional use as directed by the product label, every other use is hazardous.

#### 8. EXPOSURE CONTROL/PERSONAL PROTECTION

#### **Occupational Exposure limit values** Occupational Exposure limit values have been set for the following component. **Occupational Exposure Levels** 8h –TWA Component Short-term Reference mg/m<sup>3</sup> ppm mg/m<sup>3</sup> ppm UK - EH40 Phosphoric acid 1 2 7664-38-2 474 150 UK - FH40 Propylene glycol 57total vapour and \_ \_ particulates 55-6 10 particulates \_ \_ \_

#### Information on monitoring procedures : None available.

#### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls

Engineering controls and appropriate work processes must be used to eliminate or reduce worker and environmental exposure in the areas where the substance is handled, transported, loaded, unloaded, stored and used. These measures must be adequate for the extent of the actual risk. Provide adequate local exhaust ventilation. Use specialized transfer systems if available. Arrange for eye wash facility. **8.2.2 Personal protection equipment Eye and face protection:** 

Avoid contact with eyes. If there is a significant potential for contact, wear suitable eye and face protection (EN 166).

#### Skin protection:

<u>Hand protection</u>: Wear suitable protective gloves against chemicals (EN 374 part 1, 2, 3). Nitrile rubber min. 0.5mm thick and 300mm long gloves are the ones proven to be the most suitable according to tests on pesticide products.

Wash the gloves thoroughly after each use, especially the insides. Replace gloves if damaged and before exceeding the breakthrough time.

<u>Body protection</u>: Avoid contact with skin. If there is a significant potential for contact, wear suitable coveralls (ISO 13982-1, Type 5, EN 13034, Type 6).

Other skin protection: None specified.

#### **Respiratory protection:**

No special requirement when used as recommended. If a risk assessment shows that engineering controls do not provide adequate respiratory protection to exposure to spray particles, wear particle filtering half mask (EN 149) or half mask connected to particle filter (EN 140 + 143).

#### 8.2.3 Environmental exposure controls

Implement all applicable local and community environmental protection legislation. Refer to Section 15. Use appropriate containment to avoid environmental contamination. Do not empty into drains. Do not contaminate water with the product or used container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads. Refer to Section 12 and 13.

### 9. PHYSICAL AND CHEMICAL PROPERTIES



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	9.1 Information on basic physical and chemical properties All the data contained in this section are derived from actual test data on the mixture unless otherwise
	stated.
	Appearance: Liquid
	Colour: Dark cream
	Odour: Similar to octanol
	Odour threshold: Not determined – not required under all applicable pesticide
	legislation.
	pH: 2.45 undiluted formulation. 3.09 (1% dilution in water)
	<i>Melting point/freezing point:</i> Not applicable – the mixture is a liquid at ambient temperature and must be protected from frost
	Initial boiling point and boiling range: Approximately 100 °C
	Flash point: No flash was detected at or below 100°C – the mixture is water-based
	Evaporation rate: Not available - not required under all applicable pesticide
	legislation.
	Flammability (solid, gas): Not applicable (liquid)
	Upper/lower flammability or explosive Not applicable – the mixture is water-based limits:
	Vapour pressure: No significant volatility – the mixture is water-based
	Vapour density: Not applicable - not required under all applicable pesticide
	legislation.
	Relative density: 1.07 g/cm <sup>3</sup> at 20°C
	Solubility(ies)Solubility (water): Completely miscible in water
	Partition coefficient: n-octanol/water: Not available
	Auto-ignition temperature: >400 °C
	Minimum Ignition Temperature: Not available
	Minimum Ignition Energy: Not available q)
;(	composition temperature: Not available
	<i>Viscosity:</i> 28070 mPa.s at 20°C and 0.10s <sup>-1</sup> , 29727 mPa.s at 40°C and 0.10s <sup>-1</sup>
	Explosive properties: Explosion hazard: not explosive.
	Oxidising properties: Not an oxidising agent.
	9.2 Other information
	Surface tension: 67.82.0 mN/m (20°C)
	Flammability (in contact with water): Not flammable
	STABILITY AND REACTIVITY
•	1 <u>Reactivity</u>
	Non-reactive when stored in original container under normal conditions of storage and use.
	2 <u>Chemical stability</u>
	Stable when stored in original container under normal conditions of storage and use.
	10.3 Possibility of hazardous reactions
	No hazardous reactions when stored in original container under normal conditions of storage and use.
	Reacts with strong bases and strong oxidising substances. 10.4 Conditions to avoid
	Do not store in proximity of sources of ignition and direct sunlight.
	<u>10.5 Incompatible materials</u> Avoid contact with strong bases and strong oxidising substances.
	10.6 Hazardous decomposition products
	During decomposition evolves toxic fumes including hydrogen fluoride, nitrogen and sulphur oxides,
	hydrogen cyanide.
_	11. TOXICOLOGICAL INFORMATION
1	11.1 Information on toxicological effects

#### 11.1.2 Mixtures

All the data contained in this section are derived from actual test data on the mixture unless otherwise stated.

a) Acute toxicity:

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	LD <sub>50</sub> oral, rat:	>2000 mg/kg bw
	LD <sub>50</sub> dermal, rabbit:	>2000 mg/kg bw
	LC <sub>50</sub> inhalation, rat (4h):	>5 mg/l
b)		issified as a skin irritant under Regulation (EC) 1272/2008
	corrosion/irritation:	
c)		ye irritant. Classified as Eye Damage Category 1 under Regulation
	damage/irritation: (EC) 127	
d)		r - classified as a skin sensitizer Category 1 under Regulation (EC)
		1272/2008
e)		nutagenic on the basis of mixture component information <b>mutagenicity</b> :
f)		ified as carcinogenic on the basis of mixture component information
g)		ified as a reproductive toxicant on the basis of mixture component <b>toxicity:</b>
(L)	information	for the second constant of the state of the second se
h)		ified as hazardous for single dose toxicity on the basis of mixture
-,		component information
i)	-	ified as hazardous for repeated dose toxicity on the basis of mixture
		component information
j)	Aspiration hazard: Not class information.	ified as hazardous by aspiration on the basis of mixture component
		d related long and short term symptoms and health effects:
	Inhalation: There is a low risk	of exposure by inhalation.
	Short-term symptoms and effect	
	Possible slight nasal irritation a	nd No evidence of long-term effects after prolonged or repeated
	discharge. exposure.	
	Eye contact: There is a risk of	
	Short-term symptoms and effect	
	Possible serious irritation and r	, , , , , , , , , , , , , , , , , , ,
		prolonged or repeated exposure.
	Skin contact: There is a risk o	· · ·
	Short-term symptoms and effect	
	Possible irritation and redness.	, <sub>0</sub>
		risk of accidental exposure by ingestion.
	Short-term symptoms and effect	
	Possible mild gastrointestinal e	ffects. No evidence of long-term effects after prolonged or repeated
		exposure.

#### **12. ECOLOGICAL INFORMATION**

All the data contained in this section are derived from actual test data on the mixture unless otherwise stated. 12.1 Toxicity

Acute Toxicity	
LC <sub>50</sub> fish, Oncorhynchus mykiss (96h):	92.9 mg/l
EC <sub>50</sub> aquatic invertebrates, Daphnia magna (48h):	57.9 mg/l
EyC50 algae, Pseudokirchneriella subcapitata (72h):	29.5 mg/l
ErC50 algae, Pseudokirchneriella subcapitata (72h):	101 mg/l
E <sub>y</sub> C <sub>50</sub> Aquatic Plants, <i>Lemna gibba</i> (7 days):	0.0988 (frond counts) / 0.0811 (biomass) mg/l
E <sub>r</sub> C <sub>50</sub> Aquatic Plants, <i>Lemna gibba</i> (7 days):	0.538 (frond counts) / 0.336 (biomass)mg/l
LD <sub>50</sub> birds, <i>Bobwhite quail:</i>	>2000 mg/kg bw (based on data on the active s
LD <sub>50</sub> honey bees oral, Apis mellifera (48h):	>163.3 µg a.s./bee
LD <sub>50</sub> honey bees contact, Apis mellifera (48h):	>72.7 µg a.s./bee

	12.2 Persistence and degradability: Moderately to non-persistent,
	not readily biodegradable (based on data on the active substance)
12.3 Bioaccumulative potential:	Low (based on data on the active substance)
<u>12.4 Mobility in soil:</u>	Moderately mobile to mobile (based on data on the active substance)
<u>12.5 Results of PBT and vPvB</u>	No PBT or vPvB assessments have been carried out on the mixture;
assessment: please refer to	o 12.1, 12.2 & 12.3.
12.6 Other adverse effects:	Not determined.

#### **13. DISPOSAL CONSIDERATIONS**

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#### 13.1 Waste treatment methods

Disposal of waste product, contaminated packaging materials and any excess diluted spray should be in accordance with 'The Hazardous Waste (England and Wales) Regulations 2005' and any other applicable local or national legislation (for guidance refer to the MAFF/HSE "Pesticides: Code of Practice for the Safe Use of Pesticides on Farms and Holdings").

For the handling and management of accidental release, follow the information given under Section 6 and 7.

#### 14. TRANSPORT INFORMATION

14.1 UN number	UN 3082	
14.2 UN Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,	
	N.O.S. (contains mesotrione)	
<u>14.3 Transport hazard class(es)</u>	9	
14.4 Packing group	III	
14.5 Environmental hazards	Land transport ADR/RID - Environmentally Hazardous: Yes	
	Maritime transport IMDG - Marine pollutant: Yes	
Note : When transported in packages of 5 litres and less (UN3082) these goods are exempt from the main		

**Note**: When transported in packages of 5 litres and less (UN3082) these goods are exempt from the main requirements of the transport regulations by virtue of Special Provision 375 of the ADR regulations 2015 for transport by road, Section 2.10.2.7 of the IMDG code 37-14 for transport by sea, and Special Provision A197 of the IATA 56th Edition regulations for transport by air.

14.6 Special Precautions for UserLand transport ADR/RID - Tunnel restriction code: -14.7 Transport in bulk according to Annex II of MARPOLIBC Code: IBC03and the IBC CodeIBC Code

#### **15. REGULATORY INFORMATION**

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

REGULATION (EC) No 1107/2009 of The European Parliament and of the Council of 21 October 2009 concerning the placing of plant protection products on the market and repealing Council Directives 79/117/EEC and 91/414/EEC.

REGULATION (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

REGULATION (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. COMMISSION REGULATION (EU) No 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

#### National Regulations/legislation:

The Chemicals (Hazard Information & Packaging for Supply) Regulations 2009 (CHIP 4) Health and Safety at Work etc. Act 1974, as amended, the Control of Substances Hazardous to Health Regulations 1999 (COSHH), as amended.

#### 15.2 Chemical Safety Assessment

No Chemical Safety Assessment under Regulation (EC) 1907/2006 is required and has not been carried out.

### **16. OTHER INFORMATION**

#### Abbreviations and acronyms:

Acute Tox. 4: Acute toxicity, hazard category 4 Skin Corr. 1B: Skin corrosion, hazard category 1B Skin Irrit. 2: Skin Irritation, hazard category 2 Eye Dam. 1: Serious eye damage, hazard category 1 Eye Irrit. 2: Eye irritation, hazard category 2 Skin Sens. 1: Skin sensitization, hazard category 1 Aquatic Acute 1: Hazardous to the aquatic environment, Acute hazard category 1 Aquatic Chronic 1: Hazardous to the aquatic environment, Chronic hazard category 1 STOT: Specific Target Organ Toxicity



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#### c) Key literature references and sources for data:

ECHA Guidance on the compilation of safety data

#### sheets

ECHA Guidance on the application of the CLP criteria

Review report for the active substance mesotrione – SANCO/1416/2001 – Final (2003)

#### d) <u>Classification and procedure used to derive the classification for mixtures according to Regulation</u> (EC) 1272/2008 [CLP]

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure	
Skin. Sens. 1 – H317	On basis of study data	
Eye Dam. 1 – H318	On basis of study data	
Aquatic acute 1 – H400 Aquatic Chronic 1 – H410	On basis of study data	

#### e) <u>Relevant H-statements and precautionary statements not written out in full under Sections 2 to 15:</u> H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

- H319 Causes serious eye irritation.
- f) <u>Training advice :</u> General occupational hygiene training recommended.
- g) <u>Further information</u>: 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.

