



# SAFETY DATA SHEET

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

## **VISCOUNT**

Revision Date 18-Jan-2021

Version 1

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

### 1.1. Product identifier

## **VISCOUNT**

Pure substance/mixture Mixture

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

Recommended Use Herbicide; Professional use  
Uses advised against No information available

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

Supplier Address 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

Email address [ukenquiries@adama.com](mailto:ukenquiries@adama.com)

### 1.4. Emergency telephone number

Emergency Telephone National Chemical Emergency Centre (UK):  
Tel: 01865 407333 (24 hours)  
National Poisons Information Centre (Republic of Ireland)  
Tel: 01 809 2166 (8am – 10pm 7 days a week)

## **Section 2: HAZARDS IDENTIFICATION**

### 2.1 Classification of the substance or mixture

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

Aspiration hazard Category 1 - (H304)  
Specific target organ toxicity (repeated exposure) Category 2 - (H373)

Acute aquatic toxicity Category 1 - (H400)  
 Hazardous to the Aquatic Environment - Chronic Hazard Category 1 - (H410)

**2.2. Label elements**

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

Hazard pictograms



Signal word Danger

Hazard Statements  
 H304 - May be fatal if swallowed and enters airways  
 H373 - May cause damage to organs through prolonged or repeated exposure  
 H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements  
 P102 - Keep out of reach of children  
 P260 - Do not breathe dust/fume/gas/mist/vapors/spray  
 P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
 P331 - Do NOT induce vomiting  
 P391 - Collect spillage  
 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  
 EUH066 - Repeated exposure may cause skin dryness or cracking  
 EUH208 - Contains Clodinafop-propargyl and cloquintocet-mexyl. May produce an allergic reaction.

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  
 No information available

**Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.2 Mixture**

Chemical Name	Weight-%	CAS No	EC No	Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	M-Factor	REACH Registration Number
Clodinafop-propargyl	19-25	105512-06-9	600-662-6	607-625-00-3	Acute Tox. 4 (H302) Skin Sens. 1 (H317) STOT RE 2 (H373) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	M=1 M=1	-
cloquintocet-mexyl	4-7	99607-70-2	619-447-3	-	Acute Tox. 4(H332) Skin Sens. 1(H317) STOT RE 2(H373) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	M=1	01-2119381871-32
Hydrocarbons, C10-C13, aromatics,	50-56	N/A	922-153-0	-	Asp. Tox. 1 (H304) Aquatic Chronic 2 (H411)		01-2119451097-39-0002

<1% naphthalene					(EUH066)	
Butyrolactone	12-16	96-48-0	202-509-5	-	STOT SE 3 (H336) Eye Dam. 1 (H318) Acute Tox. 4 (H302)	01-2119471839 -21-0000
Poly(oxy-1,2-ethanediy l), .alpha.-[tris(1-phenylet hyl)phenyl]-.omega.-hy droxy-	1-3	99734-09-5	619-457-8	-	Aquatic Chronic 3 (H412)	-
Benzenesulphonic acid, 4-C10-14-alkyl derivs., calcium salts	0.5-2	N/A	932-231-6	-	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)	01-2119560592 -37
Isobutanol	<1	78-83-1	201-148-0	603-108-00-1	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Acute Tox. 4 (H332) STOT SE 3 (H335) STOT SE 3 (H336) Flam. Liq. 3 (H226)	-

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

## Section 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

<b>General advice</b>	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!.
<b>Inhalation</b>	Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.
<b>Eye contact</b>	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. Immediate medical attention is required.
<b>Ingestion</b>	Do NOT induce vomiting. Rinse mouth. Immediate medical attention is required.
<b>Self-protection of the first aider</b>	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**

Wear self contained breathing apparatus for fire fighting if necessary

**Section 6: ACCIDENTAL RELEASE MEASURES**

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

**Personal precautions**

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

**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. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

**6.3. Methods and material for containment and 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**

Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray.

**General Hygiene Considerations**

When using do not eat, drink or smoke. Wash contaminated clothing before reuse.

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

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place.

**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	European Union	United Kingdom	France	Spain	Germany
Butyrolactone 96-48-0					Skin
Isobutanol 78-83-1		STEL: 75 ppm STEL: 231 mg/m <sup>3</sup> TWA: 50 ppm TWA: 154 mg/m <sup>3</sup>	TWA: 50 ppm TWA: 150 mg/m <sup>3</sup>	TWA: 50 ppm TWA: 154 mg/m <sup>3</sup>	TWA: 100 ppm TWA: 310 mg/m <sup>3</sup> Ceiling / Peak: 100 ppm Ceiling / Peak: 310 mg/m <sup>3</sup>
Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
Butyrolactone 96-48-0				TWA: 50 ppm TWA: 14 mg/m <sup>3</sup> STEL: 250 ppm STEL: 70 mg/m <sup>3</sup> Skin	
Isobutanol 78-83-1		TWA: 50 ppm		STEL: 75 ppm STEL: 230 mg/m <sup>3</sup>	Ceiling: 50 ppm Ceiling: 150 mg/m <sup>3</sup> Skin
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Isobutanol 78-83-1	STEL 200 ppm STEL 600 mg/m <sup>3</sup> TWA: 50 ppm TWA: 150 mg/m <sup>3</sup>	STEL: 50 ppm STEL: 150 mg/m <sup>3</sup> TWA: 50 ppm TWA: 150 mg/m <sup>3</sup>	STEL: 200 mg/m <sup>3</sup> TWA: 100 mg/m <sup>3</sup> Skin	Skin Ceiling: 25 ppm Ceiling: 75 mg/m <sup>3</sup>	TWA: 50 ppm TWA: 150 mg/m <sup>3</sup> STEL: 75 ppm STEL: 225 mg/m <sup>3</sup>

## 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 (EN 374) also with prolonged, direct contact (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).

#### Body Protection

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

When using do not eat, drink or smoke. Wash contaminated clothing before reuse.

### 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
<b>Appearance</b>			
Physical state	: liquid		
Color	: brown		
Odor	: characteristic		
Odor threshold	: No data available		
pH	: 5.1-6.1	CIPAC MT 75.3	1%, 25°C
Melting point/freezing point °C	: No data available		
Boiling point/boiling range °C	: No data available		
Flash point °C	: 84-88	EEC A.9	
Evaporation rate	: Not Applicable		

<b>Flammability (solid, gas)</b>	:	Not Applicable		
<b>Upper/lower flammability or explosive limits</b>	:	No data available		
<b>Vapor pressure kPa</b>	:	No data available		
<b>Vapor density</b>	:	No data available		
<b>Relative density</b>	:	1.037-1.137	OECD 109	
<b>Solubility(ies) mg/l</b>	:	No data available		
<b>Partition Coefficient (n-octanol/water) Log Pow</b>	:			See Section 12 for more information
<b>Autoignition temperature °C</b>	:	485-495	EC A.15	
<b>Decomposition temperature °C</b>	:	No data available		
<b>Kinematic viscosity mm<sup>2</sup>/s 40 °C</b>	:	5.2	OECD 114	
<b>Explosive properties</b>	:	Not an explosive	EEC A.14	
<b>Oxidizing properties</b>	:	Not oxidizing	UM Test O.2	

**9.2. Other information**

<b>Bulk density g/ml</b>	:	Not Applicable		
<b>Surface tension mN/m neat, 25°C</b>	:	37.8	EEC A.5	neat, 25°C

**Section 10: STABILITY AND REACTIVITY**

**10.1. Reactivity**

No data 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**

	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
<b>Oral LD50 mg/kg</b>	: >2000	Rat	OECD 425	No data available
<b>Dermal LD50 mg/kg</b>	: >2000	Rat	OECD 402	
<b>Inhalation LC50 mg/l/4h</b>	:			
<b>Skin corrosion/irritation</b>	: Non-irritating to the skin	Rabbit	OECD 404	
<b>Serious eye damage/eye irritation</b>	: Not irritating to eyes	Rabbit	OECD 405	
<b>Respiratory/skin sensitization</b>	: Not a skin sensitizer	Guinea pig	OECD 406	

**Chronic toxicity**

**Germ cell mutagenicity**

**Chemical Name**

Clodinafop-propargyl : Not classified  
 cloquintocet-mexyl : Not classified

**Carcinogenicity**

**Chemical Name**

Clodinafop-propargyl : Not Carcinogenic  
 cloquintocet-mexyl : Not Carcinogenic

**Reproductive toxicity**

**Chemical Name**

Clodinafop-propargyl : Not toxic for the reproductive system  
 cloquintocet-mexyl : Not toxic for the reproductive system

**STOT - single exposure**

**Chemical Name**

Clodinafop-propargyl : No data available  
 cloquintocet-mexyl : No data available

**STOT - repeated exposure**

**Chemical Name**

Clodinafop-propargyl : H373 - May cause damage to organs through prolonged or repeated exposure  
 cloquintocet-mexyl : H373 - May cause damage to organs through prolonged or repeated exposure

**Aspiration hazard**

**Chemical Name**

Clodinafop-propargyl : No data available  
 cloquintocet-mexyl : No data available

**Section 12: ECOLOGICAL INFORMATION**

**12.1. Toxicity**

**Aquatic toxicity**

<b>Acute toxicity</b>	<b>Values</b>	<b>Species</b>	<b>Method</b>	<b>Remarks</b>
<b>Fish 96-hour LC50 mg/l</b>	: 3.6	Oncorhynchus mykiss	OECD 203	
<b>Crustacea 48-hour EC50 mg/l</b>	: 9.5	Daphnia magna	OECD 202	
<b>Algae 72-hour EC50 mg/l</b>	: 1.3	P. subcapitata	OECD 201	
<b>Other plants EC50 mg/l</b>	: 0.667	Glyceria maxima	OECD 221	7 days

<b>Chronic aquatic toxicity</b>	<b>Values</b>	<b>Species</b>	<b>Method</b>	<b>Remarks</b>
<b>Fish NOEC mg/l</b>	: No data available			
<b>Crustacea NOEC mg/l</b>	: No data available			
<b>Algae NOEC mg/l</b>	: 0.22	P.subcapitata	OECD 201	
<b>Other plants NOEC mg/l</b>	: No data available			

**Terrestrial Toxicity**

**Birds Oral LD50 mg/kg**

**Chemical Name**

Clodinafop-propargyl : > 2000 Bobwhite quail EPA-OPPTS 850.2100  
 cloquintocet-mexyl : > 2000 Mallard duck

**Bees Oral LD50 µg/bee**

**Chemical Name**

Clodinafop-propargyl : > 104 OECD 213, OECD 214  
 cloquintocet-mexyl : > 100

**12.2. Persistence and degradability**

<b>Abiotic Degradation</b>	<b>Values</b>	<b>Method</b>	<b>Remarks</b>
<b>Water DT50 days</b>			
<b>Chemical Name</b>			
Clodinafop-propargyl	: 4.8		pH 7, 25 ° C
cloquintocet-mexyl	: < 1		
<b>Soil DT50 days</b>			
<b>Chemical Name</b>			
Clodinafop-propargyl	: < 0.1	BBA IV 4-1	20 °C
cloquintocet-mexyl	: 0.5 - 2.4		
<b>Biodegradation</b>			
<b>Chemical Name</b>			
Clodinafop-propargyl	: No data available		
cloquintocet-mexyl	: No data available		

**12.3. Bioaccumulative potential**

<b>Partition Coefficient (n-octanol/water) Log Pow</b>			
<b>Chemical Name</b>			
Clodinafop-propargyl	: 3.9		25 °C
cloquintocet-mexyl	: 5.03		25 °C

<b>Bioconcentration factor (BCF)</b>			
<b>Chemical Name</b>			
Clodinafop-propargyl	:		Low
cloquintocet-mexyl	: ----		No data available

**12.4. Mobility in soil**

<b>Adsorption/Desorption</b>	<b>Values</b>	<b>Method</b>	<b>Remarks</b>
<b>Chemical Name</b>			
Clodinafop-propargyl	: 252 - 2364		KOC
cloquintocet-mexyl	: ----		Low mobility in soil

**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**

<b>Waste from residues/unused products</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
<b>Contaminated packaging</b>	Improper disposal or reuse of this container may be dangerous and illegal.
<b>Other Information</b>	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. ( Clodinafop-propargyl; Cloquintocet-mexyl )  
 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. ( Clodinafop-propargyl; Cloquintocet-mexyl )  
 14.3 Hazard Class 9  
 14.4 Packing Group III  
 14.5 Environmental hazard Yes  
 14.6 Special precautions for user  
 14.7 Tunnel restriction code -

**ICAO/IATA**

14.1 UN/ID No \* 3082  
 14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( Clodinafop-propargyl; Cloquintocet-mexyl )  
 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 according to Annex II of MARPOL 73/78 and the IBC Code Not Applicable



\* 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.

**Section 15: REGULATORY INFORMATION**

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

Trade name	Registration number	Registration date
Not Applicable	Not Applicable	Not Applicable

**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 2 and 3**

H226 - Flammable liquid and vapor  
H302 - Harmful if swallowed  
H304 - May be fatal if swallowed and enters airways  
H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H318 - Causes serious eye damage  
H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation  
H336 - May cause drowsiness or dizziness  
H373 - May cause damage to organs through prolonged or repeated exposure 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  
EUH066 - Repeated exposure may cause skin dryness or cracking

**List of 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

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

**Revision Note** Changes made to the last version are labeled with this sign \*\*\*.

**Process of classification evaluation in accordance with CLP regulation.**

**Classification of the mixture**

H304 - May be fatal if swallowed and enters airways  
H373 - May cause damage to organs through prolonged or repeated exposure  
H400 - Very toxic to aquatic life  
H410 - Very toxic to aquatic life with long lasting effects

**Classification procedure**

Classification based on test data  
Classification based on Calculation method  
Classification based on test data  
Classification based on Calculation method

**Disclaimer**

**The information provided in this Material 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**