

## CLAYTON PLANT PROTECTION

**GREENCROP DOONBEG 2** Safety Data Sheet according to Regulation (EU) No. 453/2010. Version 1/dsc  
08/09/2015 This version replaces all previous versions

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

1.1. Product identifier **GREENCROP DOONBEG 2**

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.cpp.ag Email: info@cpp.ag

### 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.**

Skin irritation: Category 2 H315 Causes skin irritation.

Serious eye damage: Category 1 H318 Causes serious eye damage.

Acute aquatic toxicity: Category 1 H400 Very toxic to aquatic life.

Chronic aquatic toxicity: Category 1 H410 Very toxic to aquatic life with long lasting effects.

**Classification according to EU Directives 67/548/EEC or 1999/45/EC**

Xi Irritant, R38, R41. N Dangerous for the environment, R50/53

#### 2.2 Label elements

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

Hazard label for supply/use required.

**Hazardous components which must be listed on the label:**

- Mesosulfuron-methyl
- Iodosulfuron-methyl-sodium
- Mefenpyr-diethyl

**Signal word:** Danger

#### Hazard statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

H410 Very toxic to aquatic life with long lasting effects.

EUH208 Contains fatty alcohol ethoxylate alkyl ether. May produce an allergic reaction.

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

#### Precautionary statements

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

P305 + P351+ P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P311 IF exposed or concerned: Call a POISON CENTRE/ doctor/ physician.

P501 Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

**2.3 Other hazards :** No other hazards known.



### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 Mixtures

**Chemical nature :** Water dispersible granules (WG)

Mesosulfuron-methyl/Iodosulfuron-methyl sodium/Mefenpyr-diethyl 3.0:0.6:9.0 % w/w

#### Hazardous components

R-phrases according to EC directive 67/548/EEC

Hazard statements according to Regulation (EC) No. 1907/2006

Name	CAS-No. / EC-No	Classification		Conc. [%]
		EC Directive 67/548/EEC	Regulation (EC) No 1272/2008	
Mesosulfuronmethyl	208465-21-8 606-653-3	N; R50/53	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	3.00
Iodosulfuronmethyl- sodium	144550-36-7	N; R50/53	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	0.60
Mefenpyr-diethyl	135590-91-9 603-923-2	Not classified	Not classified	9.00
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5 265-198-5	Xn; R65 R66 N; R51/53	Asp. Tox. 1, H304 Aquatic Chronic 2, H411	> 2.50 – < 25.00
Fatty alcohol ethoxylate alkyl ether	345642-79-7	Xi; R38, R41 R43 N; R51/53	Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Chronic 2, H411	> 5.00 – < 10.00
Naphthalene and alkyl naphthalene sulphonic acids formaldehyde condensate, sodium salt	68425-94-5 614-476-8	Xi; R36/38	Skin Irrit. 2, H315 Eye Irrit. 2, H319	> 5.00 – < 10.00
Tetrapropylene benzene sulfonate,	11117-11-6	Xn; R21	Acute Tox. 4, H312	> 1.00 – <

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calcium salt	234-360-7	Xi; R38, R41 R52/53	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412	25.00
Silica, amorphe	7631-86-9 231-545-4	Not classified	Not classified	> 1.00
Kaolin	1332-58-7 310-194-1	Not classified	Not classified	> 1.00

### Further information

Mesosulfuronmethyl 208465-21-8 M-Factor: 100 (acute), 100 (chronic)

Iodosulfuronmethyl-sodium 144550-36-7 M-Factor: 1,000 (acute)

For the full text of the R-phrases/ Hazard statements mentioned in this Section, see Section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

**General advice** Move out of dangerous area. Place and transport victim in stable position (lying sideways). Remove contaminated clothing immediately and dispose of safely.

**Skin contact** Wash off immediately with soap and plenty of water. Call a physician or poison control centre immediately.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control centre immediately.

**Ingestion** Do NOT induce vomiting. Call a physician or poison control centre immediately. Rinse mouth.

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

**Symptoms** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

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

**Treatment** Treat symptomatically. In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable. There is no specific antidote.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

**Suitable** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Unsuitable** High volume water jet

**5.2 Special hazards arising from the substance or mixture** : In the event of fire the following may be released; Hydrogen chloride (HCl), Hydrogen cyanide (hydrocyanic acid), Hydrogen iodide (HI), Carbon monoxide (CO), Sulphur oxides, Nitrogen oxides (NOx)

**5.3 Advice for firefighters : Special protective equipment for fire-fighters** : In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus.

**Further information** Contain the spread of the fire-fighting media. Do not allow run-off from fire fighting to enter drains or water courses.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

**Precautions** Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment.

**6.2 Environmental precautions** : Do not allow to get into surface water, drains and ground water. If spillage enters drains leading to sewage works inform local water company immediately. If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800 807060).

**6.3 Methods and materials for containment and cleaning up : Methods for cleaning up** : Use mechanical handling equipment. Clean contaminated floors and objects thoroughly, observing environmental regulations. Collect and transfer the product into a properly labelled and tightly closed container.

### 6.4 Reference to other sections

Information regarding safe handling, see section 7.

Information regarding personal protective equipment, see section 8.

Information regarding waste disposal, see section 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

**Advice on safe handling** No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice. Ensure adequate ventilation.

**Advice on protection against fire and explosion** : No special precautions required.

**Hygiene measures** Avoid contact with skin, eyes and clothing. Keep working clothes separately. Wash hands before breaks and immediately after handling the product. Remove soiled clothing immediately and clean thoroughly before using again. Garments that cannot be cleaned must be destroyed (burnt).

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

**Requirements for storage areas and containers** : Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a place accessible by authorized persons only.

**Advice on common storage** Keep away from food, drink and animal feeding stuffs.

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**Suitable materials** Aluminium composite film (min. 0,007 mm Aluminium)

**7.3 Specific end uses** Refer to the label and/or leaflet.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Iodosulfuron-methyl-sodium	144550-36-7	1 mg/m <sup>3</sup> (TWA)		OES BCS*
Mefenpyr-diethyl	135590-91-9	10 mg/m <sup>3</sup> (OES BCS)		OES BCS*
Silica, amorphe (Inhalable dust.)	7631-86-9	6mg/m <sup>3</sup> (TWA)	12 2011	EH40 WEL
Silica, amorphe (Respirable dust.)	7631-86-9	2.4 mg/m <sup>3</sup> (TWA)	12 2011	EH40 WEL
Kaolin (Respirable dust.)	1332-58-7	2 mg/m <sup>3</sup> (TWA)	12 2011	EH40 WEL

\*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

#### 8.2 Exposure controls

Refer to **COSHH assessment (Control of Substances Hazardous to Health (Amendment) Regulations 2004)**.

**Engineering controls should be used in preference to personal protective equipment wherever practicable.**

**Refer also to COSHH Essentials.**

**Personal protective equipment** : In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

**Respiratory protection** Respiratory protection is not required under anticipated circumstances of exposure.

Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation.

Always follow respirator manufacturer's instructions regarding wearing and maintenance.

**Hand protection** Wear CE Marked (or equivalent) nitrile rubber gloves (minimum thickness of 0,4 mm). Wash when contaminated and dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating, drinking, smoking or using the toilet.

**Eye protection** Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).

**Skin and body protection** Wear standard coveralls and Category 3 Type 5 suit. If there is a risk of significant exposure, consider a higher protective type suit. Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

<b>Form</b> water-dispersible granules <b>Colour</b> brown <b>Odour</b> aromatic <b>pH</b> 8.5 - 9.5 at 10 % (23 °C) (deionized water) <b>Flammability (solid, gas)</b> The product is not highly flammable. <b>Autoignition temperature</b> 264 °C <b>Bulk density</b> 0.635 - 0.745 g/ml (loose) <b>Water solubility</b> dispersible	<b>Partition coefficient: noctanol/ water</b> Mesosulfuron-methyl: log Pow: -0.48 Iodosulfuron-methyl-sodium: log Pow: -0.7 Mefenpyr-diethyl: log Pow: 3.83 at 21 °C <b>Impact Sensitivity</b> Not impact sensitive. <b>Combustion number</b> CN2 Short flaring without spreading <b>Oxidizing properties</b> No oxidizing properties <b>Dust content</b> nearly dust-free
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**9.2 Other information** Further safety related physical-chemical data are not known.

### SECTION 10: STABILITY AND REACTIVITY

#### 10.1 Reactivity

**Thermal decomposition** Stable under normal conditions.

**10.2 Chemical stability** Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions** No hazardous reactions when stored and handled according to prescribed instructions.

**10.4 Conditions to avoid** Extremes of temperature and direct sunlight.

**10.5 Incompatible materials** Store only in the original container.

**10.6 Hazardous decomposition products** No decomposition products expected under normal conditions of use.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

**Acute oral toxicity** LD50 (rat) > 2,000 mg/kg

**Acute inhalation toxicity** LC50 (rat) > 1.1 mg/l Exposure time: 4 h Determined in the form of liquid aerosol. Highest attainable concentration. No deaths

**Acute dermal toxicity** LD50 (rat) > 5,000 mg/kg Test conducted with a similar formulation.

**Skin irritation** Irritating to skin. (rabbit)

**Eye irritation** Severe eye irritation. (rabbit)

**Sensitisation** Non-sensitizing. (mouse) OECD Test Guideline 429, local lymph node assay (LLNA) Test conducted with a similar formulation.

#### Assessment repeated dose toxicity

Mesosulfuron-methyl did not cause specific target organ toxicity in experimental animal studies.

Iodosulfuron-methyl-sodium did not cause specific target organ toxicity in experimental animal studies.

Mefenpyr-diethyl did not cause specific target organ toxicity in experimental animal studies.

#### Assessment Mutagenicity



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Mesosulfuron-methyl was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.  
Iodosulfuron-methyl-sodium was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.  
Mefenpyr-diethyl was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

### **Assessment Carcinogenicity**

Mesosulfuron-methyl was not carcinogenic in lifetime feeding studies in rats and mice.  
Iodosulfuron-methyl-sodium was not carcinogenic in lifetime feeding studies in rats and mice.  
Mefenpyr-diethyl was not carcinogenic in lifetime feeding studies in rats and mice.

### **Assessment toxicity to reproduction**

Mesosulfuron-methyl did not cause reproductive toxicity in a two-generation study in rats.  
Iodosulfuron-methyl-sodium did not cause reproductive toxicity in a two-generation study in rats.  
Mefenpyr-diethyl did not cause reproductive toxicity in a two-generation study in rats.

### **Assessment developmental toxicity**

Mesosulfuron-methyl did not cause developmental toxicity in rats and rabbits.  
Iodosulfuron-methyl-sodium did not cause developmental toxicity in rats and rabbits.  
Mefenpyr-diethyl caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Mefenpyr-diethyl are related to maternal toxicity.

**Further information** The toxicological data refer to a similar formulation.

## **SECTION 12: ECOLOGICAL INFORMATION**

### **12.1 Toxicity**

**Toxicity to fish** LC50 (Oncorhynchus mykiss (Rainbow trout)) 7.5 g/l. Exposure time: 96 h Test conducted with a similar formulation.

### **Toxicity to aquatic invertebrates**

EC50 (Water flea (Daphnia magna)) 13.1 mg/l. Exposure time: 48 h Test conducted with a similar formulation.

### **Toxicity to aquatic plants**

EC50 (Pseudokirchneriella subcapitata) 2.4 mg/l Exposure time: 72 h Test conducted with a similar formulation.

EC50 (Lemna gibba (duckweed)) 0.62 µg/l Exposure time: 7 d The value mentioned relates to the active ingredient mesosulfuronmethyl.

EC50 (Lemna gibba (duckweed)) 0.81 mg/l Exposure time: 14 d The value mentioned relates to the active ingredient iodiosulfuronmethyl- sodium.

EC50 (Lemna gibba (duckweed)) > 12 mg/l Exposure time: 7 d The value mentioned relates to the active ingredient mefenpyr-diethyl.

### **12.2 Persistence and degradability**

**Biodegradability** Mesosulfuron-methyl: not rapidly biodegradable. Iodosulfuron-methyl-sodium: not rapidly biodegradable. Mefenpyr-diethyl: not rapidly biodegradable

**Koc** Mesosulfuron-methyl: Koc: 92 Iodosulfuron-methyl-sodium: Koc: 45 Mefenpyr-diethyl: Koc: 625

### **12.3 Bioaccumulative potential**

Mesosulfuron-methyl: Does not bioaccumulate. Iodosulfuron-methyl-sodium: Does not bioaccumulate. Mefenpyr-diethyl: Bioconcentration factor (BCF) 232 Does not bioaccumulate.

### **12.4 Mobility in soil**

Mesosulfuron-methyl: Moderately mobile in soils. Iodosulfuron-methyl-sodium: Mobile in soils

Mefenpyr-diethyl: Slightly mobile in soils

### **12.5 Results of PBT and vPvB assessment**

Mesosulfuron-methyl: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).

Iodosulfuron-methyl-sodium: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).

Mefenpyr-diethyl: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).

**12.6 Other adverse effects : Additional ecological information :** No other effects to be mentioned.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

### **13.1 Waste treatment methods**

**Product** In accordance with current regulations and, if necessary, after consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant. Advice may be obtained from the local waste regulation authority (part of the Environment Agency in the UK).

**Contaminated packaging** Small containers (< 10 l or < 10 kg) should be rinsed thoroughly using an integrated pressure rinsing device, or, by manually rinsing three times. Add washings to sprayer at time of filling. Dispose of empty and cleaned packaging safely.

Large containers (> 25 l or > 25 kg) should not be rinsed or re-used for any other purpose. Return large containers to supplier. Follow advice on product label and/or leaflet.

**Waste key for the unused product 020108** agrochemical waste containing dangerous substances

## **SECTION 14: TRANSPORT INFORMATION**

<b>ADR /RID / ADN</b>	14.1 UN number <b>3077</b> 14.2 Proper shipping name <b>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (IODOSULFURON-METHYL SODIUM, MESOSULFURONMETHYL, SOLVENT NAPHTHA (PETROLEUM) HEAVY AROMATIC MIXTURE)</b>
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	14.3 Transport hazard class(es) 9 14.4 Packing group III 14.5 Environm. Hazardous Mark YES Hazard no. 90 Tunnel Code E This classification is in principle not valid for carriage by tank vessel on inland waterways. Please refer to the manufacturer for further information.
<b>IMDG</b>	14.1 UN number <b>3077</b> 14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (IODOSULFURON-METHYL SODIUM, MESOSULFURONMETHYL, SOLVENT NAPHTHA (PETROLEUM) HEAVY AROMATIC MIXTURE) 14.3 Transport hazard class(es) 9 14.4 Packing group III 14.5 Marine pollutant YES
<b>IATA</b>	14.1 UN number <b>3077</b> 14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (IODOSULFURON-METHYL SODIUM, MESOSULFURONMETHYL, SOLVENT NAPHTHA (PETROLEUM) HEAVY AROMATIC MIXTURE ) 14.3 Transport hazard class(es) 9 14.4 Packing group III 14.5 Environm. Hazardous Mark YES
<b>UK 'Carriage' Regulations</b>	14.1 UN number <b>3077</b> 14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (IODOSULFURON-METHYL SODIUM, MESOSULFURONMETHYL, SOLVENT NAPHTHA (PETROLEUM) HEAVY AROMATIC MIXTURE) 14.3 Transport hazard class(es) 9 14.4 Packing group III 14.5 Environm. Hazardous Mark YES Emergency action code 2Z

**14.6 Special precautions for user** : See sections 6 to 8 of this Safety Data Sheet.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

No transport in bulk according to the IBC Code.

## SECTION 15: REGULATORY INFORMATION

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

### UK and Northern Ireland Regulatory References

This material may be subject to some or all of the following regulations (and any subsequent amendments). Users must ensure that any uses and restrictions as indicated on the label and/or leaflet are followed.

#### Transport

Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No 1348)

Merchant Shipping (Dangerous Goods and Marine Pollutants) Regulations 1997 (SI 1997 No 2367)

Air Navigation Dangerous Goods Regulations 2002 (SI 2002 No 2786)

#### Supply and Use

Chemical (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No 716)

Chemical (Hazard Information and Packaging for Supply) (Northern Ireland) Regulations 2009

Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No 2677)

EH40 Occupational Exposure Limits - Table 1 List of approved workplace exposure limits

Control of Pesticide Regulations 1986

Dangerous Substances and Explosive Atmospheres Regulations 2002

#### Waste Treatment

Environmental Protection Act 1990, Part II

Environmental Protection (Duty of Care) Regulations 1991

The Waste Management Licensing Regulations 1994 (as amended)

Hazardous Waste Regulations 2005 (Replacing Special Waste Regulations 1996 as amended)

Landfill Directive

Regulation on Substances That Deplete the Ozone Layer 1994 (EEC/3093/94)

Water Resources Act 1991

Anti-Pollution Works Regulations 1999

**Further information** : WHO-classification: III (Slightly hazardous)

**15.2 Chemical Safety Assessment** : A chemical safety assessment is not required.

## SECTION 16: OTHER INFORMATION

Text of R-phrases mentioned in Section 3	Text of the hazard statements mentioned in Section 3
R21 Harmful in contact with skin.	H304 May be fatal if swallowed and enters airways.
R36/38 Irritating to eyes and skin.	H312 Harmful in contact with skin.
R38 Irritating to skin.	H315 Causes skin irritation.
R41 Risk of serious damage to eyes.	H317 May cause an allergic skin reaction.

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R43 May cause sensitisation by skin contact. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R65 Harmful: may cause lung damage if swallowed. R66 Repeated exposure may cause skin dryness or cracking.	H318 Causes serious eye damage. H319 Causes serious eye irritation. 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.
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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.