

1/11

LOCKSTAR WG37 12X500G BOT IE

Version 2 / IRL Revision Date: 27.11.2020 102000013898 Print Date: 27.11.2020

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name LOCKSTAR WG37 12X500G BOT IE

Product code (UVP) 05991179

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

Use Herbicide

1.3 Details of the supplier of the safety data sheet

Supplier Bayer CropScience Ltd

Bayer Ltd

The Atrium, Blackthorn Road

Sandyford Dublin 18 Ireland

Telephone +353-1-2999313

Responsible Department Email: ukcropsupport@bayer.com

1.4 Emergency telephone no.

Emergency telephone no. 00800 1020 3333 (24 hr)

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.

Eye irritation: Category 2

H319 Causes serious eye irritation.

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.

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:

- Diflufenican
- lodosulfuron-methyl-sodium



2/11

LOCKSTAR WG37 12X500G BOT IE

 Version 2 / IRL
 Revision Date: 27.11.2020

 102000013898
 Print Date: 27.11.2020





Signal word: Warning Hazard statements

H319 Causes serious eye irritation.

H410 Very toxic to aquatic life with long lasting effects.

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

use.

EUH208 Contains Disodium maleate. May produce an allergic reaction.

Precautionary statements

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

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P391 Collect spillage.

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

non-hazardous waste.

2.3 Other hazards

May form explosible dust-air mixture if dispersed.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical nature

Water dispersible granules (WG)

Diflufenican/lodosulfuron-methyl-sodium 36:1%

Hazardous components

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

Name	CAS-No. /	Classification	Conc. [%]
	EC-No. / REACH Reg. No.	REGULATION (EC) No 1272/2008	
Diflufenican	83164-33-4	Aquatic Chronic 3, H412	36.00
lodosulfuron-methyl- sodium	144550-36-7	Aquatic Chronic 1, H410 Aquatic Acute 1, H400	1.00
Sulfonated aromatic polymer, sodium salt	68425-94-5	Eye Irrit. 2, H319	>= 3.0 - < 10.0
Aromatic hydrocarbons, C10-13, reaction products with branched nonene, sulfonated, sodium salts	1258274-08-6 01-2119980591-31-xxxx	Skin Irrit. 2, H315 Eye Dam. 1, H318	>= 3.0 - < 10.0
Disodium maleate	371-47-1 206-738-1	Acute Tox. 4, H302 Skin Sens. 1B, H317 STOT SE 3, H335	>= 0.1 - < 1
Kaolin	1332-58-7 310-194-1	Not classified	>= 1.0



3/11

LOCKSTAR WG37 12X500G BOT IE

Version 2 / IRL Revision Date: 27.11.2020 102000013898 Print Date: 27.11.2020

Further information

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

For the full text of the H-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. When symptoms develop and persist,

seek medical advice.

Inhalation Move to fresh air.

Skin contact Wash off thoroughly with plenty of soap and water, if available with

polyethyleneglycol 400, subsequently rinse with water.

Wash off immediately with plenty of water for at least 15 minutes. Eye contact

> Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation develops and

persists.

Do NOT induce vomiting. Call a physician or poison control center Ingestion

immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms To date no symptoms are known.

4.3 Indication of any immediate medical attention and special treatment needed

There is no specific antidote. Treat symptomatically. In case of **Treatment**

> 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.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

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

dioxide.

5.2 Special hazards arising from the substance or

mixture

In the event of fire the following may be released:, Carbon monoxide (CO), Hydrogen cyanide (hydrocyanic acid), Hydrogen iodide (HI), Nitrogen oxides (NOx), Hydrogen fluoride, Sulphur oxides

5.3 Advice for firefighters

Special protective equipment for firefighters 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.



4/11

LOCKSTAR WG37 12X500G BOT IE

Version 2 / IRL Revision Date: 27.11.2020 102000013898 Print Date: 27.11.2020

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Precautions Avoid dust formation. Avoid contact with spilled product or

contaminated surfaces. Use personal protective equipment. Remove

all sources of ignition.

6.2 Environmental

precautions

Do not allow to get into surface water, drains and ground water.

If the product contaminates rivers and lakes or drains inform

respective authorities.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up

Use mechanical handling equipment. Collect and transfer the product

into a properly labelled and tightly closed container. Clean

contaminated floors and objects thoroughly, observing environmental

regulations.

Additional advice Check also for any local site procedures.

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 protection against fire and explosion

Dust may form explosive mixture in air. Keep away from heat and sources of ignition. Take measures to prevent the build up of

electrostatic charge.

Hygiene measures Avoid contact with skin, eyes and clothing. Keep working clothes

separately. Remove soiled clothing immediately and clean thoroughly before using again. Wash hands immediately after work, if necessary

take a shower. When using, do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Store in original container. Store in a place accessible by authorized persons only. Keep containers tightly closed in a dry, cool and well-ventilated place. Store at room temperature. Keep away from direct

sunlight.

Advice on common storage Keep away from food, drink and animal feedingstuffs.

Suitable materials 1000 L FIBC - Polypropylen (PP) / Polyethylen (PE)-composite film

7.3 Specific end use(s) Refer to the label and/or leaflet.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters



5/11

LOCKSTAR WG37 12X500G BOT IE

 Version 2 / IRL
 Revision Date: 27.11.2020

 102000013898
 Print Date: 27.11.2020

Components	CAS-No.	Control parameters	Update	Basis
Diflufenican	83164-33-4	5.5 mg/m3 (TWA)		OES BCS*
lodosulfuron-methyl-sodium	144550-36-7	1 mg/m3 (TWA)		OES BCS*
Kaolin	1332-58-7	2.0 mg/m3 (TWA)	2011	ELV (IE)
(Respirable dust.)		, ,		

^{*}OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

8.2 Exposure controls

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 Wear respirator with a particle filter mask (protection factor 4)

conforming to European norm EN149FFP1 or equivalent.

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 Please observe the instructions regarding permeability and

breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the

contact time.

Wash gloves when contaminated. 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.

Material Nitrile rubber
Rate of permeability > 480 min
Glove thickness > 0.4 mm
Protective index Class 6

Directive Protective gloves complying with EN

374.

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

Form water-dispersible granules

Colour beige



6/11

LOCKSTAR WG37 12X500G BOT IE

Version 2 / IRL Revision Date: 27.11.2020 102000013898 Print Date: 27.11.2020

Odour weak, characteristic **Odour Threshold** No data available

8.5 - 10.5 (1 %) (23 °C) (deionized water) pН

Melting point/range No data available **Boiling Point** No data available Flash point No data available

Flammability The product is not highly flammable.

No data available

Auto-ignition temperature No data available

313 °C Ignition temperature Minimum ignition energy > 1,000 mJ

Self-accelarating decomposition temperature

(SADT) **Upper explosion limit** No data available

Lower explosion limit No data available

Dust explosion Kst number 78 m.b /s

Dust explosion class St1 (weak to moderately explosible)

Vapour pressure No data available **Evaporation rate** No data available Relative vapour density No data available Relative density No data available **Density** No data available

Bulk density 0.583 - 0.734 g/ml (loose)

Water solubility dispersible

Partition coefficient: n-

octanol/water

Diflufenican: log Pow: 4.2

lodosulfuron-methyl-sodium: log Pow: -0.7

Viscosity, dynamic No data available Viscosity, kinematic No data available

Oxidizing properties No oxidizing properties

Explosivity Not explosive **Dust content** nearly dust-free

9.2 Other information Further safety related physical-chemical data are not known.



7/11

LOCKSTAR WG37 12X500G BOT IE

Version 2 / IRL Revision Date: 27.11.2020 102000013898 Print Date: 27.11.2020

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Thermal decomposition Stable under normal conditions.

> 380 °C, Decomposition energy: 40 kJ/kg

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) > 5,000 mg/kg
Acute inhalation toxicity LC50 (Rat) > 2.165 mg/l

Exposure time: 4 h

Highest attainable concentration.

Acute dermal toxicity LD50 (Rat) > 2,000 mg/kg
Skin corrosion/irritation No skin irritation (Rabbit)
Serious eye damage/eye Irritating to eyes. (Rabbit)

irritation

Respiratory or skin Non-sensitizing. (Mouse)

sensitisation OECD Test Guideline 429, local lymph node assay (LLNA)

Assessment STOT Specific target organ toxicity – single exposure

Diflufenican: Based on available data, the classification criteria are not met.

lodosulfuron-methyl-sodium: Based on available data, the classification criteria are not met.

Assessment STOT Specific target organ toxicity - repeated exposure

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

Assessment mutagenicity

Diffufenican was not mutagenic or genotoxic in a battery of in vitro and in vivo tests. lodosulfuron-methyl-sodium was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

Assessment carcinogenicity

Diflufenican was not carcinogenic in lifetime feeding studies in rats and mice. lodosulfuron-methyl-sodium was not carcinogenic in lifetime feeding studies in rats and mice.

Assessment toxicity to reproduction



8/11

LOCKSTAR WG37 12X500G BOT IE

Version 2 / IRL Revision Date: 27.11.2020 102000013898 Print Date: 27.11.2020

Diffufenican did not cause reproductive toxicity in a two-generation study in rats. lodosulfuron-methyl-sodium did not cause reproductive toxicity in a two-generation study in rats.

Assessment developmental toxicity

Diflufenican did not cause developmental toxicity in rats and rabbits. lodosulfuron-methyl-sodium did not cause developmental toxicity in rats and rabbits.

Aspiration hazard

Based on available data, the classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)) > 100 mg/l

static test; Exposure time: 96 h

Toxicity to aquatic

invertebrates

EC50 (Daphnia magna (Water flea)) > 100 mg/l static test; Exposure

time: 48 h

EC50 (Desmodesmus subspicatus (green algae)) 8.6 µg/l **Toxicity to aquatic plants**

Growth rate; Exposure time: 72 h

12.2 Persistence and degradability

Biodegradability Diflufenican:

> Not rapidly biodegradable lodosulfuron-methyl-sodium: Not rapidly biodegradable

Koc Diflufenican: Koc: 3417 lodosulfuron-methyl-sodium: Koc: 45

12.3 Bioaccumulative potential

Bioaccumulation Diflufenican: Bioconcentration factor (BCF) 1,596

Does not bioaccumulate. lodosulfuron-methyl-sodium: Does not bioaccumulate.

12.4 Mobility in soil

Mobility in soil Diflufenican: Slightly mobile in soils

lodosulfuron-methyl-sodium: Mobile in soils

12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment Diflufenican: 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).

lodosulfuron-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).

12.6 Other adverse effects

Additional ecological

information

No other effects to be mentioned.



9/11

LOCKSTAR WG37 12X500G BOT IE

 Version 2 / IRL
 Revision Date: 27.11.2020

 102000013898
 Print Date: 27.11.2020

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product It is best to use all of the product in accordance with label directions. If it

is necessary to dispose of unused product, please follow container label

instructions and applicable local guidelines.

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.
Follow advice on product label and/or leaflet.

Waste key for the unused

product

02 01 08* agrochemical waste containing hazardous substances

SECTION 14: TRANSPORT INFORMATION

ADR/RID/ADN

14.1 UN number **3077**

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(DIFLUFENICAN, IODOSULFURON-METHYL-SODIUM

MIXTURE)

14.3 Transport hazard class(es) 9
14.4 Packaging Group III
14.5 Environm. Hazardous Mark YES
Hazard no. 90
Tunnel Code -

This classification is in principle not valid for carriage by tank vessel on inland waterways. Please refer to the manufacturer for further information.

IMDG

14.1 UN number **3077**

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(DIFLUFENICAN, IODOSULFURON-METHYL-SODIUM

MIXTURE)

14.3 Transport hazard class(es) 9
14.4 Packaging Group III
14.5 Marine pollutant YES

IATA

14.1 UN number **3077**

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(DIFLUFENICAN, IODOSULFURON-METHYL-SODIUM

MIXTURE)

14.3 Transport hazard class(es) 9
14.4 Packaging Group III



10/11

LOCKSTAR WG37 12X500G BOT IE

Version 2 / IRL Revision Date: 27.11.2020 102000013898 Print Date: 27.11.2020

14.5 Environm, Hazardous Mark YES

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 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

Republic of Ireland Regulations

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

Supply and Use

European Communities (Prohibition of Certain Active Substances in Plant Protection Products) Regulations 1981 (SI No 320/1981)

European Communities (Authorization, Placing on the Market, Use and Control of Plant Protection Products) Regulations 2003 (SI No 83/2003)

European Communities (Classification, Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations 2001 (SI No 624/2001

2010 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations, 2001 (SI No 619/2001)

effects.

Waste Treatment

Landfill Directive

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

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 the hazard statements mentioned in Section 3

H302	Harmful if swallowed.
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.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects.



11/11

LOCKSTAR WG37 12X500G BOT IE

Version 2 / IRL Revision Date: 27.11.2020 102000013898 Print Date: 27.11.2020

Abbreviations and acronyms

ADN European Agreement concerning the International Carriage of Dangerous Goods by

Inland Waterways

ADR European Agreement concerning the International Carriage of Dangerous Goods by

Road

ATE Acute toxicity estimate

CAS-Nr. Chemical Abstracts Service number

Conc. Concentration

EC-No. European community number ECx Effective concentration to x %

EINECS European inventory of existing commercial substances

ELINCS European list of notified chemical substances

ELV Exposure Limit Value
EN European Standard
EU European Union

IATA International Air Transport Association

IBC International Code for the Construction and Equipment of Ships Carrying Dangerous

Chemicals in Bulk (IBC Code) Inhibition concentration to x %

IMDG International Maritime Dangerous Goods

LCx Lethal concentration to x %

LDx Lethal dose to x %

ICx

LOEC/LOEL Lowest observed effect concentration/level

MARPOL: International Convention for the prevention of marine pollution from ships

N.O.S. Not otherwise specified

NOEC/NOEL No observed effect concentration/level

OECD Organization for Economic Co-operation and Development

RID Regulations concerning the International Carriage of Dangerous Goods by Rail

SI Statutory Instrument
TWA Time weighted average

UN United Nations

WHO World health organisation

The above information is intended to give general health and safety guidance on the storage and transport of the product.

It is not intended to apply to the use of the product for which purposes the product label and any appropriate technical usage literature available should be consulted and any relevant licenses, consents or approvals complied with.

The requirements or recommendations of any relevant site or working procedure, system or policy in force or arising from any risk assessment involving the substance or product should take precedence over any of the guidance contained in this safety data sheet where there is a difference in the information given.

The information provided in this safety data sheet is accurate at the date of publication and will be updated as and when appropriate.

No liability will be accepted for any injury, loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet.

Reason for Revision: Safety Data Sheet according to Regulation (EU) No. 2015/830. The

following sections have been revised: Section 2: Hazards Identification.

Section 3: Composition / Information on Ingredients.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.