



## **PACIFICA PLUS**

Version 5 / GB  
102000020526

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Revision Date: 17.12.2024  
Print Date: 19.03.2025

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

#### **1.1 Product identifier**

**Trade name** PACIFICA PLUS  
**Product code (UVP)** 80008880  
**UFI** PQU0-K0EG-V00X-J29F (for Northern Ireland only)  
**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 Limited  
230 Cambridge Science Park  
Milton Road  
CB4 0WB Cambridge  
United Kingdom

**Telephone** +44(0)1223 226500

**Telefax** +44(0)1223 426240

**FOR IRELAND & NORTHERN IRELAND:** Bayer CropScience Ltd  
Bayer Ltd  
1st Floor, The Grange Offices  
The Grange, Brewery Road  
Stillorgan  
Co. Dublin  
A94 H2K7  
Ireland

**Telephone** +353 1 216 3300

**Responsible Department** Email: gb-bcs-crop-regulatory-affairs@bayer.com

#### **1.4 Emergency telephone no.**

**Emergency telephone no.** 0330 678 3382 (24 hr)

For Medical Professionals:  
You can also contact the relevant NPIS.

For Members to the Public:  
You can contact NHS111 (for GB) or your local GP (for Northern Ireland)

National Poisons Information Centre UK: 0344 892 0111  
National Poisons Information Centre Dublin: +353 1 809 2166



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### **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.**

Serious eye damage: Category 1

H318 Causes serious eye damage.

Skin sensitisation: Category 1

H317 May cause an allergic skin reaction.

Short-term (acute) aquatic hazard: Category 1

H400 Very toxic to aquatic life.

Long-term (chronic) aquatic hazard: 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:**

- Amidosulfuron-sodium
- Iodosulfuron-methyl-sodium
- Mesosulfuron-methyl, sodium salt
- Mefenpyr-diethyl



**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.

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.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P310 Immediately call a POISON CENTER/doctor/ physician.

P391 Collect spillage.

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.



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### 2.3 Other hazards

No additional hazards known beside those mentioned.

Amidosulfuron: 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). 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). 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).

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

#### Chemical nature

Water dispersible granules (WG)

Amidosulfuron/Iodosulfuron-methyl -sodium/Mesosulfuron -methyl/Mefenpyr-diethyl 5,0:1,0:3,0:9,0 %

#### Hazardous components

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

Name	CAS-No. / EC-No. / REACH Reg. No.	Classification	Conc. [%]
		REGULATION (EC) No 1272/2008	
Amidosulfuron-sodium	596120-00-2 01-0000019399-56-0000	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	5.3
Iodosulfuron-methyl-sodium	144550-36-7	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	1
Mesosulfuron-methyl, sodium salt	208465-19-4 606-652-8 01-2121007338-60-0000	Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	3.1
Mefenpyr-diethyl	135590-91-9 01-2119480146-39-0000	Aquatic Chronic 2, H411	9
Solvent Naphtha (petroleum), heavy aromatic, <1% naphthalene	64742-94-5 01-2119451097-39-XXXX	Asp. Tox. 1, H304 Aquatic Chronic 2, H411	> 10 – < 25
Alkyl naphthalenesulfonic acid, polymer with formaldehyde, sodium salt	68425-94-5	Eye Irrit. 2, H319 Aquatic Chronic 3, H412	> 0.5 – < 5



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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	> 0.1 – < 5
Docusate sodium	577-11-7 01-2119491296-29-xxxx	Eye Dam. 1, H318 Skin Irrit. 2, H315	> 0.1 – < 0.5
Kaolin	1332-58-7	Not classified	> 15 – < 30
Diacetone alcohol	123-42-2	Flam. Liq. 3, H226 STOT SE 3, H335 Eye Irrit. 2, H319	< 0.1
Amorphous silica	63231-67-4	Not classified	
Naphthalene	91-20-3	Acute Tox. 4, H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	>= 0.1 – < 0.5
Calcium dodecylbenzenesulphonate	26264-06-2 01-2119560592-37-XXXX	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412	> 1 – < 5

### Further information

Iodosulfuron-methyl-sodium	144550-36-7	M-Factor: 1,000 (acute)
Mesosulfuron-methyl, sodium salt	208465-19-4	M-Factor: 100 (acute), 100 (chronic)

For the full text of the H-Statements mentioned in this Section, see Section 16.

### Particle characteristics

This substance/ mixture does not contain nanoforms

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

<b>General advice</b>	Move out of dangerous area. Place and transport victim in stable position (lying sideways). Remove contaminated clothing immediately and dispose of safely. When symptoms develop and persist, seek medical advice.
<b>Inhalation</b>	Move to fresh air. Keep patient warm and at rest. Call a physician or poison control center immediately.
<b>Skin contact</b>	Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water. If symptoms persist, call a physician.
<b>Eye contact</b>	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 center immediately.
<b>Ingestion</b>	Rinse mouth. Do NOT induce vomiting. Call a physician or poison control center immediately.



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

**Symptoms** No symptoms known or expected.

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

**Treatment** Treat symptomatically. Gastric lavage is not normally required. However, if a significant amount (more than a mouthful) has been ingested, administer activated charcoal and sodium sulphate.

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## **SECTION 5: FIREFIGHTING MEASURES**

### **5.1 Extinguishing media**

**Suitable** Water spray, Carbon dioxide (CO<sub>2</sub>), Foam, Sand

**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 cyanide (hydrocyanic acid), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>), Sulphur oxides, Hydrogen iodide (HI)

### **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** Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat. Contain the spread of the fire-fighting media. Do not allow run-off from fire fighting to enter drains or water courses.

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## **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. Keep in suitable, closed containers for disposal. 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.



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### SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

<b>Advice on safe handling</b>	No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice. Ensure adequate ventilation. Avoid dust formation.
<b>Advice on protection against fire and explosion</b>	Keep away from heat and sources of ignition.
<b>Hygiene measures</b>	Avoid contact with skin, eyes and clothing. Keep working clothes separately. Wash hands immediately after work, if necessary take a shower. 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

<b>Requirements for storage areas and containers</b>	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. Keep away from direct sunlight. Protect from freezing.
<b>Advice on common storage</b>	Keep away from food, drink and animal feedingstuffs.
<b>Suitable materials</b>	Cylindrical bottles 0.25 – 1 L : COEXEV/COEXPA Aluminium composite film (min. 0,007 mm Aluminium)
<b>7.3 Specific end use(s)</b>	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*
Mesosulfuron-methyl, sodium salt	208465-19-4	10 mg/m <sup>3</sup> (TWA)		OES BCS*
Mefenpyr-diethyl	135590-91-9	10 mg/m <sup>3</sup> (TWA)		OES BCS*
Kaolin (Respirable dust.)	1332-58-7	2 mg/m <sup>3</sup> (TWA)	12 2011	EH40 WEL
Synthetic amorphous silica (Inhalable dust.)	112926-00-8	6 mg/m <sup>3</sup> (TWA)	2007	EH40 WEL
Synthetic amorphous silica (Respirable dust.)	112926-00-8	2.4 mg/m <sup>3</sup> (TWA)	2007	EH40 WEL
Synthetic amorphous silica (Inhalable dust.)	112926-00-8	10 mg/m <sup>3</sup> (TWA)	01 2020	EH40 WEL



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Synthetic amorphous silica (Respirable dust.)	112926-00-8	4 mg/m <sup>3</sup> (TWA)	01 2020	EH40 WEL
Iodosulfuron-methyl-sodium	144550-36-7	1 mg/m <sup>3</sup> (TWA)		OES BCS*
Mesosulfuron-methyl, sodium salt	208465-19-4	10 mg/m <sup>3</sup> (TWA)		OES BCS*
Mefenpyr-diethyl	135590-91-9	10 mg/m <sup>3</sup> (TWA)		OES BCS*
Amorphous silica (Inhalable dust.)	63231-67-4	6 mg/m <sup>3</sup> (TWA)	2007	EH40 WEL
Amorphous silica (Respirable dust.)	63231-67-4	2.4 mg/m <sup>3</sup> (TWA)	2007	EH40 WEL
Amorphous silica (Inhalable dust.)	63231-67-4	10 mg/m <sup>3</sup> (TWA)	01 2020	EH40 WEL
Amorphous silica (Respirable dust.)	63231-67-4	4 mg/m <sup>3</sup> (TWA)	01 2020	EH40 WEL
Kaolin (Respirable dust.)	1332-58-7	2 mg/m <sup>3</sup> (TWA)	12 2011	EH40 WEL
Diacetone alcohol	123-42-2	241 mg/m <sup>3</sup> /50 ppm (TWA)	2007	EH40 WEL
Diacetone alcohol	123-42-2	362 mg/m <sup>3</sup> /75 ppm (STEL)	01 2020	EH40 WEL

\*OES BCS: Internal Bayer AG, Crop Science Division "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

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



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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
Break through time	> 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) and faceshield (conforming to EN166, Field of Use = 3 or equivalent).

### Skin and body protection

Wear standard coveralls and Category 3 Type 4 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 to brown
Odour	aromatic
Odour Threshold	No data available
Melting point/ range	No data available
Boiling Point	No data available
Flammability	The product is not highly flammable.
Upper explosion limit	No data available
Lower explosion limit	No data available
Flash point	No data available
Auto-ignition temperature	No data available
Ignition temperature	270 °C
Minimum ignition energy	100 - 300 mJ
Thermal decomposition	120 °C Heating rate:3 K/min Decomposition energy:10 kJ/kg,
Self-accelarating decomposition temperature (SADT)	No data available
pH	7.5 - 9.5 (10 %) (23 °C) (deionized water)
Viscosity, dynamic	No data available





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<b>Viscosity, kinematic</b>	No data available
<b>Water solubility</b>	No data available
<b>Partition coefficient: n-octanol/water</b>	Amidosulfuron: log Pow: -1.56 (22 °C) (pH 7)  Iodosulfuron-methyl-sodium: log Pow: -0.7 Mesosulfuron-methyl: log Pow: -0.48 Mefenpyr-diethyl: log Pow: 3.83 (21 °C)
<b>Vapour pressure</b>	No data available
<b>Density</b>	No data available
<b>Relative density</b>	No data available
<b>Bulk density</b>	0.637 - 0.747 g/ml (loose)
<b>Relative vapour density</b>	No data available
<b>Assessment nano particles</b>	This substance/ mixture does not contain nanoforms

### 9.2 Other information

<b>Explosivity</b>	Not explosive
<b>Oxidizing properties</b>	No oxidizing properties
<b>Evaporation rate</b>	No data available
<b>Other physico-chemical properties</b>	Further safety related physical-chemical data are not known.

## SECTION 10: STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	Stable under normal conditions.
<b>10.2 Chemical stability</b>	Stable under recommended storage conditions.
<b>10.3 Possibility of hazardous reactions</b>	No hazardous reactions when stored and handled according to prescribed instructions.
<b>10.4 Conditions to avoid</b>	Extremes of temperature and direct sunlight.
<b>10.5 Incompatible materials</b>	Strong oxidizing agents, Strong reducing agents, Store only in the original container.
<b>10.6 Hazardous decomposition products</b>	No decomposition products expected under normal conditions of use.



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### **SECTION 11: TOXICOLOGICAL INFORMATION**

#### **11.1 Information on hazard classes as defined in regulation (EC) No 1272/2008**

<b>Acute oral toxicity</b>	LD50 (Rat) > 2,000 mg/kg
<b>Acute inhalation toxicity</b>	Inhalation is no relevant route of exposure for this formulation. No volatility, no aerosols under normal conditions.
<b>Acute dermal toxicity</b>	LD50 (Rat) > 2,000 mg/kg
<b>Skin corrosion/irritation</b>	No skin irritation (Rabbit)
<b>Serious eye damage/eye irritation</b>	Risk of serious damage to eyes. (Rabbit)
<b>Respiratory or skin sensitisation</b>	Skin: Sensitising (Mouse) OECD Test Guideline 429, local lymph node assay (LLNA)

#### **Assessment STOT Specific target organ toxicity – single exposure**

Amidosulfuron: Based on available data, the classification criteria are not met.  
Iodosulfuron-methyl-sodium: Based on available data, the classification criteria are not met.  
Mesosulfuron-methyl: Based on available data, the classification criteria are not met.  
Mefenpyr-diethyl: Based on available data, the classification criteria are not met.

#### **Assessment STOT Specific target organ toxicity – repeated exposure**

Amidosulfuron 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.  
Mesosulfuron-methyl 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**

Amidosulfuron 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.  
Mesosulfuron-methyl 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**

Amidosulfuron 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.  
Mesosulfuron-methyl 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**

Amidosulfuron 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.  
Mesosulfuron-methyl 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**

Amidosulfuron did not cause developmental toxicity in rats and rabbits.  
Iodosulfuron-methyl-sodium did not cause developmental toxicity in rats and rabbits.  
Mesosulfuron-methyl 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.



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### Aspiration hazard

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

### Further information

No further toxicological information is available.

### 11.2 Information on other hazards

#### Endocrine disrupting properties

##### Assessment

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

#### Toxicity to fish

LC50 (Oncorhynchus mykiss (rainbow trout)) 11.5 mg/l  
Exposure time: 96 h

#### Toxicity to aquatic invertebrates

EC50 (Daphnia magna (Water flea)) 15 mg/l  
Exposure time: 48 h

#### Toxicity to aquatic plants

EC50 (Raphidocelis subcapitata (freshwater green alga)) 5.6 mg/l  
Growth rate; Exposure time: 72 h  
ErC50 (Lemna gibba (gibbous duckweed)) 0.0199 mg/l  
Growth rate; Exposure time: 7 d

### 12.2 Persistence and degradability

#### Biodegradability

Amidosulfuron:  
Not rapidly biodegradable  
Iodosulfuron-methyl-sodium:  
Not rapidly biodegradable  
Mesosulfuron-methyl:  
Not rapidly biodegradable  
Mefenpyr-diethyl:  
Not rapidly biodegradable

#### Koc

Amidosulfuron: Koc: 36  
Iodosulfuron-methyl-sodium: Koc: 45  
Mesosulfuron-methyl: Koc: 347; log Koc: 2.54  
Mefenpyr-diethyl: Koc: 625

### 12.3 Bioaccumulative potential

#### Bioaccumulation

Amidosulfuron:  
Does not bioaccumulate.  
Iodosulfuron-methyl-sodium:  
Does not bioaccumulate.  
Mesosulfuron-methyl:  
On the basis of the partition coefficient n-octanol/water (log pOW) no



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accumulation in organisms is expected.  
Mefenpyr-diethyl: Bioconcentration factor (BCF) 232  
Does not bioaccumulate.

### **12.4 Mobility in soil**

#### **Mobility in soil**

Amidosulfuron: Mobile in soils  
Iodosulfuron-methyl-sodium: Mobile in soils  
Mesosulfuron-methyl: Moderately mobile in soils  
Mefenpyr-diethyl: Slightly mobile in soils

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

#### **PBT and vPvB assessment**

Amidosulfuron: 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).  
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).  
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 Endocrine disrupting properties**

#### **Assessment**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### **12.7 Other adverse effects**

#### **Additional ecological information**

No other effects to be mentioned.

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## **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).



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<b>Contaminated packaging</b>	Triple rinse containers. Do not re-use empty containers. Not completely emptied packagings should be disposed of as hazardous waste.
<b>Contaminated packaging</b>	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.

## SECTION 14: TRANSPORT INFORMATION

### ADR/RID/ADN

14.1 UN number	<b>3077</b>
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (IODOSULFURON-METHYL-SODIUM, MESOSULFURON-METHYL-SODIUM)
14.3 Transport hazard class(es)	9
14.4 Packing 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	<b>3077</b>
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (IODOSULFURON-METHYL-SODIUM, MESOSULFURON-METHYL-SODIUM)
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Marine pollutant	YES

### IATA

14.1 UN number	<b>3077</b>
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (IODOSULFURON-METHYL-SODIUM, MESOSULFURON-METHYL-SODIUM )
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environm. Hazardous Mark	YES

### UK 'Carriage' Regulations

14.1 UN number	<b>3077</b>
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14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (IODOSULFURON-METHYL-SODIUM, MESOSULFURON-METHYL-SODIUM)
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 IMO instruments

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)



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### SECTION 16: OTHER INFORMATION

#### Text of the hazard statements mentioned in Section 3

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
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.

#### 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 %
EH40 WEL	Worker Exposure Limit
EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
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)
ICx	Inhibition concentration to x %
IMDG	International Maritime Dangerous Goods
LCx	Lethal concentration to x %
LDx	Lethal dose to x %
LOEC/LOEL	Lowest observed effect concentration/level
MARPOL	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



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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:**

The following sections have been revised: Section 14: Transport Information.

The following sections have been revised: Section 3: Composition / Information on Ingredients. Section 4: First Aid Measures.

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