



OCTAVIAN MET

Version 2 / GB
102000029478

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Revision Date: 14.03.2023
Print Date: 14.03.2023

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

1.1 Product identifier

Trade name OCTAVIAN MET
Product code (UVP) 84128058
UFI 45J2-U052-1009-QNAV (for Northern Ireland only) (voluntary notification)

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
Cambridge
Cambridgeshire CB4 0WB
United Kingdom
Telephone +44(0)1223 226500
Telefax +44(0)1223 426240
Responsible Department Email: gb-bcs-crop-regulatory-affairs@bayer.com
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

1.4 Emergency telephone no.

Emergency telephone no. 00800 1020 3333 (24 hr) (not available on non-contract mobile phones)

For Medical Professionals: You can also contact the relevant NPIS.
For Members of the Public: You can also contact NHS111 (for GB) or your local GP (for Northern Ireland).

National Poisons Information Centre Dublin +353-1-809 2166 (available from 8 am to 10 pm every day)



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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.

Specific target organ toxicity - repeated exposure: Category 2

H373 May cause damage to organs (Nervous system) through prolonged or repeated exposure if swallowed.

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:

- Flufenacet
- Diflufenican
- Metribuzin



Signal word: Warning

Hazard statements

H373 May cause damage to organs (Nervous system) through prolonged or repeated exposure if swallowed.

H410 Very toxic to aquatic life with long lasting effects.

EUH208 Contains Flufenacet, 1,2-benzisothiazolin-3-one, reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1). May produce an allergic reaction.

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

Precautionary statements

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

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

P308 + P311 IF exposed or concerned: Call a POISON CENTER/ 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 additional hazards known beside those mentioned.

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Metribuzin: 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). 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). Flufenacet: 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**

Suspension concentrate (=flowable concentrate)(SC)
Flufenacet 240 g/l; Diflufenican 90 g/l; Metribuzin 70 g/l

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 | |
| Flufenacet | 142459-58-3 | | 20.87 |
| Diflufenican | 83164-33-4 | | 7.83 |
| Metribuzin | 21087-64-9 | | 6.09 |
| Alkylated Naphthalene sulfonate, sodium salt | 68425-94-5 | Skin Irrit. 2, H315 Eye Dam. 1, H318 | >= 1 – < 3 |
| 1,2-Benzisothiazol-3(2H)-one | 2634-33-5 01-2120761540-60-0003 | | >= 0.025 – < 0.05 |
| reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1) | 55965-84-9 | Acute Tox. 3, H301 Acute Tox. 2, H310 Acute Tox. 2, H330 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 | >= 0.000115 – < 0.0015 |
| Pyrogenic (fumed) amorphous silica | 112945-52-5 01-2119379499-16-XXXX | Not classified | > 1 |
| Glycerine | 56-81-5 01-2119471987-18-XXXX | Not classified | > 1 |

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| | | |
|--|------------|---|
| 1,2-Benzisothiazol-3(2H)-one | 2634-33-5 | M-Factor: 10 (acute) |
| reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | 55965-84-9 | SCL: Skin Corr. 1C; H314: SCL \geq 0.6 % |
| reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | 55965-84-9 | SCL: Skin Irrit. 2; H315: SCL 0.06 - < 0.6 % |
| reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | 55965-84-9 | SCL: Eye Irrit. 2; H319: SCL 0.06 - < 0.6 % |
| reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | 55965-84-9 | SCL: Skin Sens. 1A; H317: SCL \geq 0.0015 % |
| reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | 55965-84-9 | SCL: Eye Dam. 1; H318: SCL \geq 0.6 % |

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**

| | |
|-----------------------|--|
| General advice | Move out of dangerous area. Place and transport victim in stable position (lying sideways). Remove contaminated clothing immediately and dispose of safely. |
| Inhalation | Move to fresh air. Keep patient warm and at rest. Call a physician or poison control center immediately. |
| Skin contact | Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water. Call a physician or poison control center 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 center immediately. |



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

4.2 Most important symptoms and effects, both acute and delayed

Symptoms If large amounts are ingested, the following symptoms may occur:
The absorption of this product into the body may lead to the formation of methaemoglobine that, in sufficient concentration, causes cyanosis.
Shortness of breath, Drowsiness, tachycardia, Headache, Tiredness, Dizziness, Nausea
Symptoms and hazards refer to effects observed after intake of significant amounts of the active ingredient(s).

4.3 Indication of any immediate medical attention and special treatment needed

Risks Danger of formation of methaemoglobin.

Treatment Treat symptomatically. In case of methaemoglobinemia, oxygen and specific antidotes (methylene blue/ toluidine blue) should be given. 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.

5.2 Special hazards arising from the substance or mixture In the event of fire the following may be released: Hydrogen cyanide (hydrocyanic acid), Hydrogen fluoride, Carbon monoxide (CO), Nitrogen oxides (NO_x), Sulphur oxides

5.3 Advice for firefighters

Special protective equipment for firefighters In the event of fire and/or explosion do not breathe fumes. Wear self-contained breathing apparatus and protective suit.

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.

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| | |
|--|---|
| 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 | Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Clean contaminated floors and objects thoroughly, observing environmental regulations. Keep in suitable, closed containers for disposal. |
| 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 safe handling | No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice. Ensure adequate ventilation. |
| 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 a place accessible by authorized persons only. Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from direct sunlight. Protect from freezing. |
| Advice on common storage | Keep away from food, drink and animal feedingstuffs. |
| Suitable materials | HDPE (high density polyethylene) |
| 7.3 Specific end use(s) | Refer to the label and/or leaflet. |

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters**

| Components | CAS-No. | Control parameters | Update | Basis |
|--------------|-------------|------------------------------------|--------|----------|
| Metribuzin | 21087-64-9 | 0.36 mg/m ³ (SK-SEN) | | OES BCS* |
| Diflufenican | 83164-33-4 | 5.5 mg/m ³ (TWA) | | OES BCS* |
| Flufenacet | 142459-58-3 | 0.3 mg/m ³ (SK-SEN) | | OES BCS* |

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| | | | | |
|---|-------------|--------------------------------|---------|----------|
| Glycerine (Mist.) | 56-81-5 | 10 mg/m ³ (TWA) | 2007 | EH40 WEL |
| Pyrogenic (fumed) amorphous silica (Respirable dust.) | 112945-52-5 | 4 mg/m ³ (TWA) | 01 2020 | EH40 WEL |
| Pyrogenic (fumed) amorphous silica (Inhalable dust.) | 112945-52-5 | 10 mg/m ³ (TWA) | 01 2020 | EH40 WEL |
| Pyrogenic (fumed) amorphous silica (Respirable dust.) | 112945-52-5 | 2.4 mg/m ³ (TWA) | 2007 | EH40 WEL |
| Pyrogenic (fumed) amorphous silica (Inhalable dust.) | 112945-52-5 | 6 mg/m ³ (TWA) | 2007 | 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

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

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).

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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.
If chemical protection suit is splashed, sprayed or significantly contaminated, decontaminate as far as possible, then carefully remove and dispose of as advised by manufacturer.
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 | suspension |
| Colour | white to beige |
| Odour | weakly pungent |
| Odour Threshold | No data available |
| Melting point/range | No data available |
| Boiling Point | No data available |
| Flammability | No data available |
| Upper explosion limit | No data available |
| Lower explosion limit | No data available |
| Flash point | > 100 °C Not relevant; aqueous solution |
| Auto-ignition temperature | No data available |
| Ignition temperature | 430 °C |
| Self-accelerating decomposition temperature (SADT) | No data available |
| pH | 4.0 - 6.0 (100 %) (23 °C) |
| Viscosity, dynamic | No data available |
| Viscosity, kinematic | No data available |
| Water solubility | No data available |
| Partition coefficient: n-octanol/water | Metribuzin: log Pow: 1.6 Diflufenican: log Pow: 4.2 Flufenacet: log Pow: 3.2 |
| Surface tension | 36 mN/m (25 °C) Determined in the undiluted form. |

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| | |
|--|--|
| Vapour pressure | No data available |
| Density | 1.15 g/cm ³ (20 °C) |
| Relative density | No data available |
| Relative vapour density | No data available |
| Assessment nano particles | This substance/ mixture does not contain nanoforms |
| Particle size | No data available |
| 9.2 Other information | |
| Explosivity | Not explosive |
| Oxidizing properties | No oxidizing properties |
| Evaporation rate | No data available |
| Other physico-chemical properties | Further safety related physical-chemical data are not known. |

SECTION 10: STABILITY AND REACTIVITY

| | |
|--|--|
| 10.1 Reactivity | 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 hazard classes as defined in regulation (EC) No 1272/2008**

| | |
|----------------------------------|--|
| Acute oral toxicity | LD50 (Rat) > 2,000 mg/kg |
| Acute inhalation toxicity | LC50 (Rat) > 4.19 mg/l Exposure time: 4 h Highest attainable concentration. Determined in the form of a respirable aerosol. |
| Acute dermal toxicity | LD50 (Rat) > 2,000 mg/kg |



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| | |
|--|--|
| Skin corrosion/irritation | No skin irritation (Rabbit) |
| Serious eye damage/eye irritation | No eye irritation (Rabbit) |
| Respiratory or skin sensitisation | Skin: Non-sensitizing. (Mouse) OECD Test Guideline 429, local lymph node assay (LLNA) |

Assessment STOT Specific target organ toxicity – single exposure

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

Assessment STOT Specific target organ toxicity – repeated exposure

Metribuzin caused specific target organ toxicity in experimental animal studies in the following organ(s):
Liver, Kidney.
Diflufenican did not cause specific target organ toxicity in experimental animal studies.
Flufenacet caused neurobehavioral effects and/or neuropathological changes in animal studies.

Assessment mutagenicity

Metribuzin was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.
Diflufenican was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.
Flufenacet was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

Assessment carcinogenicity

Metribuzin was not carcinogenic in lifetime feeding studies in rats and mice.
Diflufenican was not carcinogenic in lifetime feeding studies in rats and mice.
Flufenacet was not carcinogenic in lifetime feeding studies in rats and mice.

Assessment toxicity to reproduction

Metribuzin caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Metribuzin is related to parental toxicity.
Diflufenican did not cause reproductive toxicity in a two-generation study in rats.
Flufenacet did not cause reproductive toxicity in a two-generation study in rats.

Assessment developmental toxicity

Metribuzin caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Metribuzin are related to maternal toxicity.
Diflufenican did not cause developmental toxicity in rats and rabbits.
Flufenacet caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Flufenacet are related to maternal toxicity.

Aspiration hazard

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

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.

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LC50 (*Lepomis macrochirus* (Bluegill sunfish)) 2.13 mg/l
Exposure time: 96 h
The value mentioned relates to the active ingredient flufenacet.

LC50 (*Oncorhynchus mykiss* (rainbow trout)) > 109 µg/l
Exposure time: 96 h
The value mentioned relates to the active ingredient diflufenican.
Aquatic toxicity is unlikely due to low solubility.

LC50 (*Oncorhynchus mykiss* (rainbow trout)) 74.6 mg/l
Exposure time: 96 h
The value mentioned relates to the active ingredient metribuzin.

Toxicity to aquatic invertebrates

EC50 (*Daphnia magna* (Water flea)) 30.9 mg/l
Exposure time: 48 h
The value mentioned relates to the active ingredient flufenacet.

EC50 (*Daphnia magna* (Water flea)) > 240 µg/l
Exposure time: 48 h
The value mentioned relates to the active ingredient diflufenican.
No acute toxicity was observed at its limit of water solubility.

EC50 (*Daphnia magna* (Water flea)) 49 mg/l
Exposure time: 48 h
The value mentioned relates to the active ingredient metribuzin.

Toxicity to aquatic plants

EC50 (*Raphidocelis subcapitata* (freshwater green alga)) 9,36 µg/l
Growth rate; Exposure time: 72 h
Test conducted with a similar formulation.

NOEC (*Raphidocelis subcapitata* (freshwater green alga)) 0,477 µg/l
Growth rate; Exposure time: 72 h
Test conducted with a similar formulation.

EC50 (*Lemna gibba* (gibbous duckweed)) 49,3 µg/l
Growth rate; Exposure time: 7 d
Test conducted with a similar formulation.

12.2 Persistence and degradability**Biodegradability**

Metribuzin:
Not rapidly biodegradable
Diflufenican:
Not rapidly biodegradable
Flufenacet:
Not rapidly biodegradable

Koc

Metribuzin: Koc: 24 - 106
Diflufenican: Koc: 3417
Flufenacet: Koc: 202

12.3 Bioaccumulative potential



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Bioaccumulation

Metribuzin:
Does not bioaccumulate.
Diflufenican: Bioconcentration factor (BCF) 1,596
Does not bioaccumulate.
Flufenacet: Bioconcentration factor (BCF) 71
Does not bioaccumulate.

12.4 Mobility in soil

Mobility in soil

Metribuzin: Mobile in soils
Diflufenican: Slightly mobile in soils
Flufenacet: Moderately mobile in soils

12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment

Metribuzin: 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).
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).
Flufenacet: 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.

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.

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| | |
|---------------------------------|---|
| 14.1 UN number | 3082 |
| 14.2 Proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUFENACET, METRIBUZIN SOLUTION) |
| 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 | 3082 |
| 14.2 Proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUFENACET, METRIBUZIN SOLUTION) |
| 14.3 Transport hazard class(es) | 9 |
| 14.4 Packaging Group | III |
| 14.5 Marine pollutant | YES |

IATA

| | |
|---------------------------------|--|
| 14.1 UN number | 3082 |
| 14.2 Proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUFENACET, METRIBUZIN SOLUTION) |
| 14.3 Transport hazard class(es) | 9 |
| 14.4 Packaging Group | III |
| 14.5 Environm. Hazardous Mark | YES |

UK 'Carriage' Regulations

| | |
|---------------------------------|---|
| 14.1 UN number | 3082 |
| 14.2 Proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUFENACET, METRIBUZIN SOLUTION) |
| 14.3 Transport hazard class(es) | 9 |
| 14.4 Packaging Group | III |
| 14.5 Environm. Hazardous Mark | YES |
| Emergency action code | 3Z |

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.



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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)

SECTION 16: OTHER INFORMATION

Text of the hazard statements mentioned in Section 3

| | |
|------|---|
| H301 | Toxic if swallowed. |
| H310 | Fatal in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H330 | Fatal if inhaled. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |

Abbreviations and acronyms

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| | |
|-----------|--|
| 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 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.

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Reason for Revision: New Safety Data Sheet.

The following sections have been revised: Section 3: Composition / Information on Ingredients. Section 12. Ecological information. Section 13. Disposal considerations.

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