



## **MATENO STAR**

Version 2 / GB  
102000034695

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

#### **1.1 Product identifier**

**Trade name** MATENO STAR  
**Product code (UVP)** 86261421  
**UFI** DHM0-20F5-500C-0DC1 (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  
PO Box 1582  
CB1 0FE Cambridge  
United Kingdom  
**Telephone** +44(0)1223 226500

**FOR 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.**

Carcinogenicity: Category 2

H351 Suspected of causing cancer.

Skin sensitisation: Category 1B

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:**

- Aclonifen
- Flufenacet
- Diflufenican



**Signal word:** Warning

#### Hazard statements

H351 Suspected of causing cancer.

H317 May cause an allergic skin reaction.

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

P201 Obtain special instructions before use.

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

P308 + P311 IF exposed or concerned: 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.

#### 2.3 Other hazards

No additional hazards known beside those mentioned.

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



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substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB). Aclonifen: 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)  
Aclonifen 450 g/l; Diflufenican 30 g/l; Flufenacet 90 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	
Aclonifen	74070-46-5	Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Skin Sens. 1A, H317	36.9
Flufenacet	142459-58-3	Aquatic Acute 1, H400 STOT RE 2, H373 Skin Sens. 1, H317 Acute Tox. 4, H302 Aquatic Chronic 1, H410	7.38
Diflufenican	83164-33-4	Aquatic Chronic 1, H410 Aquatic Acute 1, H400	2.46
Alkyl-naphthalenesulfonic acid, polymer with formaldehyde, sodium salt	68425-94-5	Eye Irrit. 2, H319	>= 1.0 – < 10
1,2-Benzisothiazol-3(2H)-one	2634-33-5 01-2120761540-60-XXXX	Acute Tox. 4, H302 Acute Tox. 2, H330 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	>= 0.036 – < 0.1
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-	55965-84-9 01-2120764691-48-XXXX	Acute Tox. 3, H301 Acute Tox. 2, H310	>= 0.00015 – < 0.0015



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one and 2-methyl-2H-isothiazol-3-one (3:1)		Acute Tox. 2, H330 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	
Glycerine	56-81-5 01-2119471987-18-XXXX	Not classified	>= 1

## Further information

1,2-Benzisothiazol-3(2H)-one	2634-33-5	SCL: Skin Sens. 1A; H317: SCL >= 0.036 %
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 >= 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 >= 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 >= 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 (according to REACH Regulation)

## 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.



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<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. Call a physician or poison control center immediately.
<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. Induce vomiting only, if: 1. patient is fully conscious, 2. medical aid is not readily available, 3. a significant amount (more than a mouthful) has been ingested and 4. time since ingestion is less than 1 hour. (Vomit should not get into the respiratory tract.) Call a physician or poison control center immediately.

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

<b>Symptoms</b>	<p>If large amounts are ingested, the following symptoms may occur:</p> <p>Shortness of breath, Drowsiness, Cyanosis, Headache, Tiredness, Dizziness, Nausea</p> <p>Symptoms and hazards refer to effects observed after intake of significant amounts of the active ingredient(s).</p> <p>The absorption of this product into the body may lead to the formation of methaemoglobine that, in sufficient concentration, causes cyanosis.</p>
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### 4.3 Indication of any immediate medical attention and special treatment needed

<b>Risks</b>	Danger of formation of methaemoglobin.
<b>Treatment</b>	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. Follow-up measures: Strict abstinence from alcohol for 48h.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

<b>Suitable</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
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<b>5.2 Special hazards arising from the substance or mixture</b>	In the event of fire the following may be released: Hydrogen chloride (HCl), Hydrogen cyanide (hydrocyanic acid), Hydrogen fluoride, Carbon monoxide (CO), Nitrogen oxides (NOx), Sulphur oxides
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### 5.3 Advice for firefighters

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

#### 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.

**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** Use only in area provided with appropriate exhaust ventilation.

**Advice on protection against fire and explosion** Keep away from heat and sources of ignition.

**Hygiene measures** Avoid contact with skin, eyes and clothing. Keep working clothes separately. Wash thoroughly with soap and water after handling. Wash hands immediately after work, if necessary take a shower. 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. Protect from frost. Keep away from direct sunlight.

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

**Suitable materials** HDPE (high density polyethylene)  
Coex HDPE/EVOH/HDPE

**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
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Diflufenican	83164-33-4	5.5 mg/m <sup>3</sup> (TWA)		OES BCS*
Flufenacet	142459-58-3	0.3 mg/m <sup>3</sup> (SK-SEN)		OES BCS*
Glycerine (Mist.)	56-81-5	10 mg/m <sup>3</sup> (TWA)	2007	EH40 WEL
Acclonifen	74070-46-5	2 mg/m <sup>3</sup> (SK-SEN)		OES BCS*

\*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).

#### 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.

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.



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**General protective measures** If product is handled while not enclosed, and if contact may occur:  
Complete suit protecting against chemicals

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

<b>Form</b>	suspension
<b>Colour</b>	yellow
<b>Odour</b>	odourless
<b>Odour Threshold</b>	No data available
<b>Melting point/ range</b>	No data available
<b>Boiling Point</b>	No data available
<b>Flammability</b>	No data available
<b>Upper explosion limit</b>	No data available
<b>Lower explosion limit</b>	No data available
<b>Flash point</b>	> 100 °C
<b>Auto-ignition temperature</b>	440 °C
<b>Self-accelarating decomposition temperature (SADT)</b>	No data available
<b>pH</b>	5.0 - 7.0 (100 %) (23 °C)
<b>Viscosity, dynamic</b>	No data available
<b>Viscosity, kinematic</b>	247 mm <sup>2</sup> /s (20 °C) Shear rate of 20/sec 158 mm <sup>2</sup> /s (20 °C) Shear rate of 100/sec
<b>Water solubility</b>	suspensive
<b>Partition coefficient: n-octanol/water</b>	Diflufenican: log Pow: 4.2 Flufenacet: log Pow: 3.2 Aclonifen: log Pow: 4.37
<b>Surface tension</b>	30 mN/m (25 °C) Determined in the undiluted form.
<b>Vapour pressure</b>	No data available
<b>Density</b>	ca. 1.22 g/cm <sup>3</sup> (20 °C)
<b>Relative density</b>	1.218





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<b>Relative vapour density</b>	No data available
<b>Assessment nano particles</b>	This substance/ mixture does not contain nanoforms (according to REACH Regulation)
<b>Particle size</b>	No data available
<b>9.2 Other information</b>	
<b>Explosivity</b>	Not explosive Regulation (EC) No. 440/2008, Annex, A.14
<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>	Store only in the original container.

## 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 Test conducted with a similar formulation.
<b>Acute inhalation toxicity</b>	LC50 (Rat) > 2.43 mg/l Exposure time: 4 h Determined in the form of a respirable aerosol. Highest attainable concentration. No deaths Test conducted with a similar formulation.
<b>Acute dermal toxicity</b>	LD50 (Rat) > 2,000 mg/kg Test conducted with a similar formulation.
<b>Skin corrosion/irritation</b>	No skin irritation (Rabbit) Test conducted with a similar formulation.
<b>Serious eye damage/eye</b>	No eye irritation (Rabbit)



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### **irritation**

Test conducted with a similar formulation.

### **Respiratory or skin sensitisation**

Skin: Sensitising (Mouse)  
OECD Test Guideline 429, local lymph node assay (LLNA)  
Test conducted with a similar formulation.

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

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

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

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

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

Diflufenican did not cause specific target organ toxicity in experimental animal studies.

Flufenacet caused neurobehavioral effects and/or neuropathological changes in animal studies.

Aclonifen did not cause specific target organ toxicity in experimental animal studies.

### **Assessment mutagenicity**

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.

Aclonifen 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.

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

Aclonifen caused an increased incidence of tumours in rats in the following organ(s): Brain.

### **Assessment toxicity to reproduction**

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.

Aclonifen 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.

Flufenacet caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Flufenacet are related to maternal toxicity.

Aclonifen did not cause developmental toxicity in rats and rabbits.

### **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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## **SECTION 12: ECOLOGICAL INFORMATION**

### **12.1 Toxicity**



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<b>Toxicity to fish</b>	LC50 (Oncorhynchus mykiss (rainbow trout)) 1.71 mg/l Exposure time: 96 h Test conducted with a similar formulation.
<b>Chronic toxicity to fish</b>	Oncorhynchus mykiss (rainbow trout) NOEC: 0.194 mg/l Exposure time: 96 h Test conducted with a similar formulation.
<b>Toxicity to aquatic invertebrates</b>	EC50 (Daphnia magna (Water flea)) 2.49 mg/l Exposure time: 48 h Test conducted with a similar formulation.
<b>Chronic toxicity to aquatic invertebrates</b>	NOEC (Daphnia magna (Water flea)): 0.854 mg/l Exposure time: 48 h Test conducted with a similar formulation.
<b>Toxicity to aquatic plants</b>	ErC50 (Raphidocelis subcapitata (freshwater green alga)) 11,5 µg/l Growth rate; Exposure time: 72 h Test conducted with a similar formulation.  NOEC (Raphidocelis subcapitata (freshwater green alga)) 1,28 µg/l Growth rate; Exposure time: 72 h Test conducted with a similar formulation.  ErC50 (Lemna gibba (gibbous duckweed)) 43,1 µg/l Growth rate; Exposure time: 7 d Test conducted with a similar formulation.

### 12.2 Persistence and degradability

<b>Biodegradability</b>	Diflufenican: Not rapidly biodegradable Flufenacet: Not rapidly biodegradable Aclonifen: Not rapidly biodegradable
<b>Koc</b>	Diflufenican: Koc: 3417 Flufenacet: Koc: 202 Aclonifen: Koc: 5318 - 10612

### 12.3 Bioaccumulative potential

<b>Bioaccumulation</b>	Diflufenican: Bioconcentration factor (BCF) 1,596 Does not bioaccumulate. Flufenacet: Bioconcentration factor (BCF) 71 Does not bioaccumulate. Aclonifen: Bioconcentration factor (BCF) 2,896 Potential bioaccumulation
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### 12.4 Mobility in soil

<b>Mobility in soil</b>	Diflufenican: criterion of mobility not fulfilled Flufenacet: mobile in soil Aclonifen: criterion of mobility not fulfilled
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### 12.5 Results of PBT and vPvB assessment

<b>PBT and vPvB assessment</b>	Diflufenican: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be
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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).  
Aclonifen: 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.

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

## SECTION 14: TRANSPORT INFORMATION

### ADR/RID/ADN

14.1 UN number	<b>3082</b>
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ACLONIFEN, FLUFENACET 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	<b>3082</b>
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ACLONIFEN, FLUFENACET SOLUTION)



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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. (ACLONIFEN, FLUFENACET 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. (ACLONIFEN, FLUFENACET 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



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### 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.
H302	Harmful 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.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

### 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 %



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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.

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**Reason for Revision:** The following sections have been revised: Section 3: Composition / Information on Ingredients.

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