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## **BETANAL FLOW**

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

1.1 Product identifier

Trade name BETANAL FLOW

UFI Y6D0-10SE-4009-SCTJ

Product code (UVP) 05942667

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

**Use** Herbicide

1.3 Details of the supplier of the safety data sheet

**Supplier** Bayer CropScience Ltd

Bayer Ltd

1st Floor, The Grange Offices The Grange, Brewery Road

Stillorgan

A94 H2K7 Co. Dublin

Ireland

**Telephone** +353 1 216 3300

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

1.4 Emergency telephone no.

Emergency telephone no. +44 330 678 3382 (24 hr) (charged as a standard international call to

the UK)

For Medical Professionals and Members of the Public:

You can also contact the relevant NPIS.

National Poisons Information Centre Dublin: 01 809 2166

## **SECTION 2: HAZARDS IDENTIFICATION**

#### 2.1 Classification of the substance or mixture

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

Eye irritation: Category 2

H319 Causes serious eye irritation.
Short-term (acute) aquatic hazard: Category 1
H400 Very toxic to aquatic life.

Long-term (chronic) aquatic hazard: Category 1

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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:

Phenmedipham





## Signal word: Warning Hazard statements

H410 Very toxic to aquatic life with long lasting effects.

H319 Causes serious eye irritation.

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.

P391 Collect spillage.

P501 Dispose of contents/container to a licensed hazardous waste disposal contractor or

collection site, except for triple rinsed empty containers which can be disposed of as

non-hazardous waste.

### 2.3 Other hazards

No additional hazards known beside those mentioned.

Phenmedipham: 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**

Suspo-emulsion (SE) Phenmedipham 160 g/l

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## **Hazardous components**

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

Name	CAS-No. / EC-No. /	Classification REGULATION (EC) No	Conc. [%]
	REACH Reg. No.	1272/2008	
Phenmedipham	13684-63-4 237-199-0	Aquatic Acute 1, H400 15.84 Aquatic Chronic 1, H410	
Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	Acute Tox. 4, H302 > 1 - < 3 Eye Dam. 1, H318 Aquatic Chronic 3, H412	
Docusate sodium	577-11-7 209-406-4 01-2119491296-29-xxxx	Eye Dam. 1, H318 Skin Irrit. 2, H315	>1-<3
1,2-Propanediol	57-55-6 200-338-0 01-2119456809-23-XXXX	Not classified	> 1

#### **Further information**

Phenmedipham	13684-63-4	M-Factor: 10 (acute), 10 (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

General advice Call a physician or poison control center immediately. Remove

contaminated clothing immediately and dispose of safely.

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

and dispose of safely.

Move to fresh air. Keep patient warm and at rest. Call a physician or Inhalation

poison control center immediately.

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

polyethyleneglycol 400, subsequently rinse with water. If symptoms

persist, call a physician.

Rinse immediately with plenty of water, also under the eyelids, for at Eye contact

least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation

develops and persists.

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

control center immediately.

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

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**Symptoms** If large amounts are ingested, the following symptoms may occur:

lethargy

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** This product, although being a carbamate, is NOT a cholinesterase

inhibitor.

**Treatment** Treat symptomatically. In case of ingestion gastric lavage should be

> considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable. There is no specific antidote. Forced

alkaline diuresis and hemodialysis may be considered.

#### **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), Carbon monoxide (CO), Nitrogen oxides (NOx)

5.3 Advice for firefighters

Special protective

equipment for firefighters

In the event of fire and/or explosion do not breathe fumes. In the event

of fire, wear self-contained breathing apparatus.

**Further information** Contain the spread of the fire-fighting media. Do not allow run-off from

fire fighting to enter drains or water courses.

## **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.

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#### **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 hands before breaks and immediately after handling the product. Remove soiled clothing immediately and clean thoroughly

before using again. Garments that cannot be cleaned must be

destroyed (burnt).

## 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a place accessible by authorized persons only. 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
Phenmedipham	13684-63-4	1.5 mg/m3 (TWA)		OES BCS*
1,2-Propanediol	57-55-6	10 mg/m3 (TWA)	01 2020	ELV (IE)
(Particulate.)				
1,2-Propanediol	57-55-6	470 mg/m3/150 ppm (TWA)	01 2020	ELV (IE)
(Total vapour and particulates.)				

<sup>\*</sup>OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

## 8.2 Exposure controls

### Personal protective equipment

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

**Respiratory protection** 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

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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 6 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.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

## 9.1 Information on basic physical and chemical properties

Form Liquid

Colour white to beige Odour weak, aromatic **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 Auto-ignition temperature 450 °C

**Ignition temperature** The product is not self-ignitable.

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Thermal decomposition > 260 °C

**Self-accelarating** 

decomposition temperature

(SADT)

pН

3.0 - 7.0 (10 %) (23 °C) (deionized water)

No data available

Viscosity, dynamic 141 mPa.s (20 °C)

Velocity gradient 20 /s 88 mPa.s (20 °C) Velocity gradient 100 /s

Viscosity, kinematic No data available

Water solubility dispersible

Partition coefficient: n-

octanol/water

Phenmedipham: log Pow: 3.59

Surface tension 31 mN/m (25 °C)

Determined in the undiluted form.

Vapour pressure No data available

**Density** ca. 1.01 g/cm³ (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

No hazardous reactions when stored and handled according to

hazardous reactions prescribed instructions.

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**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

Test conducted with a similar formulation.

Acute inhalation toxicity

During intended and foreseen applications, no respirable aerosol is

formed.

Acute dermal toxicity LD50 (Rat) > 2,000 mg/kg

Test conducted with a similar formulation.

Skin corrosion/irritation Slight irritant effect - does not require labelling. (Rabbit)

Test conducted with a similar formulation.

Serious eye damage/eye

irritation

Irritating to eyes.
Calculation method

Respiratory or skin

sensitisation

Skin: Non-sensitizing. (Guinea pig)
OECD Test Guideline 406, Buehler test
Test conducted with a similar formulation.

## Assessment STOT Specific target organ toxicity - single exposure

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

## Assessment STOT Specific target organ toxicity - repeated exposure

Phenmedipham caused haemolytic anaemia, methaemoglobinaemia in animal studies. The observed effects do not appear to be relevant for humans.

## **Assessment mutagenicity**

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

## **Assessment carcinogenicity**

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

#### Assessment toxicity to reproduction

Phenmedipham 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 Phenmedipham is related to parental toxicity.

#### Assessment developmental toxicity

Phenmedipham caused developmental toxicity only at dose levels toxic to the dams. Phenmedipham caused a delayed ossification of foetuses. The developmental effects seen with Phenmedipham are

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related to maternal toxicity.

### **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)) 8.4 mg/l

Exposure time: 96 h

Test conducted with a similar formulation.

LC50 (Oncorhynchus mykiss (rainbow trout)) 1.84 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient phenmedipham.

Chronic toxicity to fish Oncorhynchus mykiss (rainbow trout)

NOEC: 0.096 mg/l Exposure time: 92 d

The value mentioned relates to the active ingredient phenmedipham.

Oncorhynchus mykiss (rainbow trout)

NOEC: 0.0041 mg/l Exposure time: 92 d

The value mentioned relates to the active ingredient phenmedipham.

Toxicity to aquatic invertebrates

EC50 (Daphnia magna (Water flea)) 0.5 mg/l

Exposure time: 48 h

The value mentioned relates to the active ingredient phenmedipham.

Chronic toxicity to aquatic

invertebrates

(Daphnia magna (Water flea)): 0.005 mg/l

Exposure time: 28 d

The value mentioned relates to the active ingredient phenmedipham.

**Toxicity to aquatic plants** EC50 (Raphidocelis subcapitata (freshwater green alga)) 0.086 mg/l

Growth rate; Exposure time: 72 h

Test conducted with a similar formulation.

EC10 (Myriophyllum spicatum (Eurasian watermilfoil)) 0.028 mg/l

Biomass; Exposure time: 14 d

The value mentioned relates to the active ingredient phenmedipham.

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EC10 (Myriophyllum spicatum (Eurasian watermilfoil)) 0.0208 mg/l

Growth rate; Exposure time: 14 d

The value mentioned relates to the active ingredient phenmedipham.

NOEC (Myriophyllum spicatum (Eurasian watermilfoil)) 0.0128 mg/l

Biomass; Exposure time: 14 d

The value mentioned relates to the active ingredient phenmedipham.

NOEC (Myriophyllum spicatum (Eurasian watermilfoil)) 0.0128 mg/l

Growth rate; Exposure time: 14 d

The value mentioned relates to the active ingredient phenmedipham.

ErC50 (Raphidocelis subcapitata (freshwater green alga)) 0.0168 mg/l

Growth rate; Exposure time: 72 h

The value mentioned relates to the active ingredient phenmedipham.

NOEC (Raphidocelis subcapitata (freshwater green alga)) 0.000563

mg/l

Growth rate; Exposure time: 72 h

The value mentioned relates to the active ingredient phenmedipham.

ErC50 (Myriophyllum spicatum (Eurasian watermilfoil)) 0.0705 mg/l

Growth rate; Exposure time: 72 h

The value mentioned relates to the active ingredient phenmedipham.

NOEC (Myriophyllum spicatum (Eurasian watermilfoil)) 0.012 mg/l

Growth rate; Exposure time: 72 h

The value mentioned relates to the active ingredient phenmedipham.

## 12.2 Persistence and degradability

**Biodegradability** Not readily biodegradable.

**Biodegradability** Phenmedipham:

Not rapidly biodegradable

**Koc** Phenmedipham: Koc: 888

12.3 Bioaccumulative potential

**Bioaccumulation** Phenmedipham: Bioconcentration factor (BCF) 165

Does not bioaccumulate.

12.4 Mobility in soil

Mobility in soil Phenmedipham: Slightly mobile in soils

12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment Phenmedipham: 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.

Contaminated packaging Not completely emptied packagings should be disposed of as

hazardous waste.

Waste key for the unused

product

02 01 08\* agrochemical waste containing hazardous substances

#### **SECTION 14: TRANSPORT INFORMATION**

#### ADR/RID/ADN

14.1 UN number **3082** 

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(PHENMEDIPHAM SOLUTION)

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 3082

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(PHENMEDIPHAM SOLUTION)

14.3 Transport hazard class(es) 9
14.4 Packing 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.

(PHENMEDIPHAM SOLUTION)

14.3 Transport hazard class(es) 9
14.4 Packing group III
14.5 Environm. Hazardous Mark YES

## 14.6 Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

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### 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

### **Republic of Ireland Regulations**

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

## Supply and Use

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

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

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

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

#### **Waste Treatment**

Landfill Directive

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

#### **Further information**

WHO-classification: III (Slightly hazardous)

## 15.2 Chemical safety assessment

A chemical safety assessment is not required.

#### **SECTION 16: OTHER INFORMATION**

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

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

#### 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

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CAS-Nr. Chemical Abstracts Service number

Conc. Concentration

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

**EINECS** European inventory of existing commercial substances

**ELINCS** European list of notified chemical substances

ELV **Exposure Limit Value** European Standard ΕN **European Union** EU

IATA International Air Transport Association

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

Chemicals in Bulk (IBC Code)

Inhibition concentration to x % **IC**x

**IMDG** International Maritime Dangerous Goods

LCx Lethal concentration to x %

Lethal dose to x % LDx

LOEC/LOEL Lowest observed effect concentration/level

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

N.O.S. Not otherwise specified

NOEC/NOEL No observed effect concentration/level

OECD Organization for Economic Co-operation and Development

Regulations concerning the International Carriage of Dangerous Goods by Rail RID

Statutory Instrument SI TWA Time weighted average

**United Nations** UN

WHO World health organisation

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

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

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

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

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

Reason for Revision: Safety Data Sheet according to Regulation (EU) No. 2020/878.

Checked and revised for editorial purposes due to adjustments according to the current Annex II of the REACH regulation.

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