

# Safety Data Sheet

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006

# **DEFIANT SC**

Preparation Date 27-Mar-2014

Revision date 14-Nov-2019

**Revision Number: 4** 

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

### 1.1 Identification of the product

Product code	HBT01			
Product Description	DEFIANT SC			
Formulation	Metamitron 700 g/L SC			
Synonyms	Bettix Flo Target Flo			
Pure substance/preparation	Preparation			
1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against				
Recommended use	Herbicide			
Sector(s) of use	SU1 - Agriculture, forestry, fishery			
Product category	PC27 - Plant protection products			
1.3 Details of the Supplier of the Safety Data Sheet				
Supplier	UPL Europe Ltd Engine Rooms Birchwood Park Warrington WA3 6YN Cheshire UK Tel. : +44 (0) 1925 819999 Fax : +44 (0) 1925 856075			
E-mail address	sds.info@upl-ltd.com			
1.4 Emergency Telephone Number	_			
Emergency Telephone	(CARECHEM 24): +44 (0) 1235 239670			
United Kingdom	NHS no. 111			

# Section 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

# Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute aquatic toxicity Category 1 - (H400)

Chronic Aquatic Toxicity Category 1 - (H410)

### Additional information

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

### 2.2 Label elements

### Labeling according to Regulation (EC) No. 1272/2008 [CLP]



signal word

WARNING

Hazard Statements H410 - Very toxic to aquatic life with long lasting effects

### **Precautionary statements**

P273 - Avoid release to the environment P391 - Collect spillage

P501 - Dispose of contents/ container in accordance with national regulation

### **EU Specific Hazard Statements**

EUH208 - Contains (1,2-Benzisothiazolin-3-one). May produce an allergic reaction EUH401 - To avoid risks to human health and the environment, comply with the instructions for use

2.3 Other Hazards

# Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

## 3.2. Mixtures

Chemical name	CAS No	EC No	Index-No.	REACH No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Metamitron	41394-05-2	255-349-3	613-129-00-8	-	50 - 60	Acute Tox. 4 (H302) Aquatic Acute 1 (H400)
Ethylene glycol	107-21-1	203-473-3	603-027-00-1	01-2119456816-2 8	5 - 10	Acute Tox. 4 (H302)
Ethoxylated polyaryphenyl sulfate, ammonium salt	119432-41-6	601-612-6	-	-	1 - 5	Eye Dam. 1 (H318)
Alkylnaphthalenesul fonic acid, polymer w ith formaldehyde, sodium salt	68425-94-5	614-476-8	-	-	1 - 5	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)
1,2-Benzisothiazolin -3-one	2634-33-5	220-120-9	613-088-00-6	-	< 1	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Aquatic Acute 1 (H400)

Full text of H- and EUH-phrases: see section 16

# Section 4: FIRST AID MEASURES

### 4.1 Description of first-aid measures

### General advice

• In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

### Inhalation

- Move to fresh air
- Call a POISON CENTER or doctor if you feel unwell

### Eye contact

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- · If eye irritation persists, consult a specialist

### Skin contact

- · Wash off immediately with plenty of water
- · If symptoms persist, call a physician

### Ingestion

- · Rinse mouth with water
- · Call a POISON CENTER or doctor if you feel unwell

### Self-protection of the first aider

First aider: Pay attention to self-protection

### 4.2 Most Important Symptoms and Effects, Both Acute and Delayed

### Symptoms

No information available

### 4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

#### Note to physicians

Treat symptomatically

# Section 5: FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

### Suitable Extinguishing Media

- Water spray
- Dry powder
- Foam
- Carbon dioxide (CO2)

### Unsuitable extinguishing media

No information available

### 5.2 Special hazards arising from the substance or mixture

### Hazardous combustion products

· Thermal decomposition may release toxic fumes

### 5.3 Advice for Firefighters

· Wear self-contained breathing apparatus and protective suit

# Section 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

### For non-emergency personnel

- Personal Precautions
- Avoid contact with skin and eyes
- · Wear protective gloves/protective clothing and eye/face protection
- Emergency procedures
- · Evacuate personnel to safe areas

### **Emergency responder**

- · Use personal protective equipment as required
- · Evacuate personnel to safe areas

### 6.2 Environmental Precautions

- · Prevent further leakage or spillage if safe to do so
- Do not allow material to contaminate ground water system
- Do not flush into surface water or sanitary sewer system

### 6.3 Methods and material for containment and cleaning up

### Methods for containment

· Prevent further leakage or spillage if safe to do so

### Methods for cleaning up

• Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container

### Prevention of secondary hazards

· Clean contaminated objects and areas thoroughly observing environmental regulations

### 6.4 Reference to other sections

# Section 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

### Advice on safe handling

- Provide adequate ventilation
- · Use only outdoors or in a well-ventilated area
- Ensure that eyewash stations and safety showers are close to the workstation location

### General hygiene considerations

- Do not eat, drink or smoke when using this product
- · Keep away from food, drink and animal feeding stuffs
- Avoid contact with skin and eyes
- · Wash hands before breaks and immediately after handling the product
- Remove contaminated clothing and protective equipment before entering eating areas

### 7.2 Conditions for safe storage, including any incompatibilities

· Keep container tightly closed in a dry and well-ventilated place

### 7.3 Specific end uses

Herbicide

• Please refer to the product labeling and packaging for information about appropriate use

# Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control Parameters

### **Exposure Limits**

Chemical name	Eu	United Kingdom	France	Spain	Germany
Ethylene glycol	S*	STEL: 40 ppm	TWA: 20 ppm TWA:	S*	-
107-21-1	TWA 20 ppm	STEL: 104 mg/m <sup>3</sup>	52 mg/m <sup>3</sup>	STEL: 40 ppm	
	TWA 52 mg/m <sup>3</sup>	STEL: 30 mg/m <sup>3</sup>	STEL: 40 ppm	STEL: 104 mg/m <sup>3</sup>	
	STEL 40 ppm	TWA: 20 ppm TWA:	STEL: 104 mg/m <sup>3</sup>	TWA: 20 ppm TWA:	
	STEL 104 mg/m <sup>3</sup>	52 mg/m <sup>3</sup> TWA: 10		52 mg/m <sup>3</sup>	
		mg/m³			
		Skin			
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
Ethylene glycol	TWA: 20 ppm TWA:	Ceiling: 100 mg/m <sup>3</sup>	Skin	TWA: 20 ppm TWA:	TWA: 10 ppm
107-21-1	52 mg/m <sup>3</sup>		STEL: 104 mg/m <sup>3</sup>	50 mg/m <sup>3</sup>	TWA: 26 mg/m <sup>3</sup>
	STEL: 40 ppm		TWA: 52 mg/m <sup>3</sup>	STEL: 40 ppm	TWA: 10 mg/m <sup>3</sup>
	STEL: 104 mg/m <sup>3</sup>		TWA: 10 mg/m <sup>3</sup>	STEL: 100 mg/m <sup>3</sup>	Skin
	Skin			Skin	
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Ethylene glycol	Skin	Skin	STEL: 50 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>
107-21-1	STEL 20 ppm	STEL: 20 ppm	TWA: 15 mg/m <sup>3</sup>	TWA: 20 ppm TWA:	TWA: 20 ppm TWA:
	STEL 52 mg/m <sup>3</sup>	STEL: 52 mg/m <sup>3</sup>	-	52 mg/m <sup>3</sup>	52 mg/m <sup>3</sup>
	TWA: 10 ppm	TWA: 10 ppm TWA:		Skin	STEL: 40 ppm
	TWA: 26 mg/m <sup>3</sup>	26 mg/m <sup>3</sup>		Ceiling: 25 ppm	STEL: 104 mg/m <sup>3</sup>
				STEL: 104 mg/m <sup>3</sup>	Skin
				STEL: 40 ppm	

### 8.2 Exposure Controls

### Engineering controls

• Ensure adequate ventilation, especially in confined areas

### Personal Protective Equipment

Eye/face protection

- Safety glasses with side-shields
- Eye protection must conform to standard EN 166

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.

- · Gloves must conform to standard EN 374
- Wear protective nitrile rubber gloves
- Rate of permeability : > 480 min
- Glove thickness : > 0,4 mm
- 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.

Respiratory protection

• When workers are facing concentrations above the exposure limit they must use appropriate certified respirators

### **General hygiene considerations**

• Handle in accordance with good industrial hygiene and safety practice

### **Environmental exposure controls**

- · Local authorities should be advised if significant spillages cannot be contained
- Do not allow into any sewer, on the ground or into any body of water
  Prevent product from entering drains

# Section 9: PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information on basic physical and chemical properties

Appearance Physical state Odor	Off-white ( white; Yellowish white ) Liquid suspension concentrate (SC) paint like	
<u>Property</u> pH Melting point/freezing point Boiling Point/Range	<u>VALUES</u> 8 No information available No information available	Remarks/ Method (1% solution) CIPAC MT 75.3
Flash Point Flammability (solid, gas) Surface tension	112 °C Not applicable 51.8 mN/m	EC A.9 20°C, EC A.5, OECD 115
Relative Density Water solubility Solubility in Other Solvents	1.203 g/ml dispersible No information available	EC A.3
Partition coefficient: n-octanol/wate Autoignition temperature	rNo information available	EC A.15
Decomposition temperature Viscosity	No information available 55 - 324	20 °C, Dynamic viscosity, CIPAC MT 192
Oxidizing properties Explosive properties	Non oxidizing According to the chemical structure no explosion reaction is expected	EC A.21 EC A.14

# 9.2 OTHER INFORMATION

**VOC Content** 

# Section 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

• No information available

### 10.2 Chemical stability

Stable under normal conditions

### 10.3 Possibility of hazardous reactions

None under normal processing

### 10.4 Conditions to avoid

· Keep away from open flames, hot surfaces and sources of ignition

### 10.5 Incompatible Materials

Strong acids

Strong oxidizing agents

### 10.6 Hazardous Decomposition Products

• Thermal decomposition giving flammable and toxic products.

# Section 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on Toxicological Effects

### Acute toxicity

LD50 Oral > 2000 mg/kg - OECD 420 LD50 Dermal > 2000 mg/kg - OECD 402 LC50 Inhalation > 3.49 mg/l - OECD 403

### Skin corrosion/irritation

- No skin irritation
- OECD 404

### Serious eye damage/eye irritation

- No eye irritation
- OECD 405

### Respiratory or skin sensitization

- skin: Did not cause sensitization
- OECD 429

### Germ cell mutagenicity

No information available

### Carcinogenicity

No information available

### Reproductive toxicity

No information available

## Specific target organ toxicity (single exposure)

No information available

### Specific target organ toxicity (repeated exposure)

• No information available

### Aspiration hazard

# Section 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

$$\begin{split} &EC50/72h/algae = 2.32 \text{ mg/L} - \text{OECD 201} \\ &EC50/48h/daphnia = > 100 \text{ mg/L} - \text{OECD 202} \\ &LC50/fish/96 \ h = > 100 \text{ mg/L} - \text{OECD 203} \\ &EC/7d/aquatic \ plant = 1.76 \text{ mg/L} \ (\text{Lemna}) - \text{OECD 221} \\ &EC/14d/aquatic \ plant = 2.28 \text{ mg/L} \ (\text{Myriophyllum}) - \text{OECD 239} \end{split}$$

### 12.2 Persistence and Degradability

• No information available

### 12.3 Bioaccumulative Potential

Chemical name	Log Pow
Metamitron	0.83
Ethylene glycol	-1.93
1,2-Benzisothiazolin-3-one	1.3

### 12.4 Mobility in Soil

• No information available

### 12.5 Results of PBT and vPvB Assessment

• This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT)

### 12.6 Other Adverse Effects

No information available

# Section 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste Treatment Methods

### Waste from residues/unused products

· Dispose of in accordance with local regulations

### Contaminated packaging

· Empty containers should be taken for local recycling, recovery or waste disposal

#### EWC waste disposal No

• 020108 - agrochemical waste containing dangerous substances

### OTHER INFORMATION

• According to the European Waste Catalogue, Waste Codes are not product specific, but application specific

# **Section 14: TRANSPORT INFORMATION**

### 14.1 UN Number

• ADR, IMDG, IATA : UN3082

### 14.2 UN proper shipping name

- ADR : Environmentally hazardous substance, liquid, n.o.s. ( Metamitron )
- IMDG : Environmentally hazardous substance, liquid, n.o.s ( Metamitron )
- IATA : Environmentally hazardous substance, liquid, n.o.s ( Metamitron )

### 14.3 Transport Hazard Class(es)

- Hazard class
- ADR, IMDG, IATA: 9
- Subsidiary class
- ADR, IMDG, IATA : Not applicable

### 14.4 Packing Group

• ADR, IMDG, IATA: III

### 14.5 Environmental Hazards

- ADR, IATA : DANGEROUS FOR THE ENVIRONMENT
- IMDG : IMDG Marine Pollutant

### 14.6 Special Precautions for User

- Special Provisions
- ADR: 274, 335, 375, 601
- IMDG: 274, 335, 969
- IATA: A97, A158, A197

### 14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC CODE

Not applicable

# Section 15: REGULATORY INFORMATION

### 15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

Registration n°

MAPP 16531

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

### 15.2 Chemical safety assessment

· A chemical safety assessment has not been carried out

# **Section 16: OTHER INFORMATION**

### Full text of H-Statements referred to under sections 2 and 3

- H302 Harmful if swallowed
- · H315 Causes skin irritation
- H317 May cause an allergic skin reaction
- H318 Causes serious eye damage
- H319 Causes serious eye irritation
- H400 Very toxic to aquatic life
- H410 Very toxic to aquatic life with long lasting effects

### Classification procedure

• On basis of test data

### Abbreviations and acronyms

- CLP : Classification, Labelling and Packaging = Regulation (EC) No 1272/2008
- CAS : Chemical Abstracts Service
- EC No : EINECS/ELINCS European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- LDx : Lethal dose to x %
- LCx : Lethal concentration to x %
- ECx : Effective concentration to x %
- · CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
- Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
- · Very Persistent and very Bioaccumulative (vPvB) Chemicals
- EWC : European Waste Catalogue
- ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road
- IMDG : International Maritime Dangerous Goods Code
- IATA : International Air Transport Association

Preparation Date	27-Mar-2014
Revision date	14-Nov-2019
Reason for revision	New formatting

# This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 + Commission Regulation (EU) No 2015/830 of 28 May 2015

### Disclaimer

The information contained is based on our knowledge of the product at the date of publishing.

It applies to the PRODUCT AS SUCH. In case of formulation or mixture, make sure that a new danger will not appear.

Users are advised of possible additional hazards when the product is used in applications for which it was not intended.

This sheet shall only be used and duplicated for prevention and Safety purposes.

For rates and use recommendations, refer to the information displayed on the packaging.

It is the responsability of the handlers of the product to pass on this safety data sheet to any subsequent persons who will come into contact with the product.

### **End of Safety Data Sheet**