

Safety Data Sheet

BETTIX FLO

Preparation Date 25-Mar-2014 Revision date 11-Dec-2014 Revision Number: 2

1. Identification of the substance/mixture and of the company/undertaking

1.1 Identification of the product

Product code HBT01

Product Description: BETTIX FLO

Synonyms METAMITRON 700 SC

Pure substance/preparation Preparation

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Recommended use Herbicide

1.3 Details of the Supplier of the Safety Data Sheet

Supplier UPL Europe Ltd

The Centre Birchwood Park Warrington WA3 6YNCheshire

UK

Tel.: +44 (0) 1925 819999 Fax: +44 (0)1925 856075

E-mail address info.uk@uniphos.com

1.4 Emergency Telephone Number

Emergency telephone number (CARECHEM 24): +44 (0) 1235 239670

United Kingdom NHS no. 111

2. Hazards Identification

2.1 Classification of the mixture

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Symbol(s) N - Dangerous for the environment

R-code(s) N;R51/53

For the full text of the R phrases mentioned in this Section, see Section 16

Classification according to regulation (EC) No 1272/2008 (CLP)

Acute aquatic toxicity Acute 1 - H400 Chronic aquatic toxicity Chronic 1 - H410

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

2.2 Label elements

Labelling according to EU Directives 67/548/EEC or 1999/45/EC



Symbol(s)

N - Dangerous for the environment

R -phrase(s)

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S -phrase(s)

\$13 - Keep away from food, drink and animal feedingstuffs

S35 - This material and its container must be disposed of in a safe way

S46 - If swallowed, seek medical advice immediately and show this container or label

S57 - Use appropriate container to avoid environmental contamination

Labelling according Regulation (EC) No 1272/2008 (CLP)



signal word WARNING

hazard statements

H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements - EU (§28, 1272/2008)

P273 - Avoid release to the environment

P391 - Collect spillage

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

Revision date 11-Dec-2014

BETTIX FLO

EU Specific Hazard Statements

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

2.3 Other Hazards

No information available

3. Composition/information on Ingredients

3.2. MIXTURES

Chemical name	EC No	CAS-No	Weight %	Classification (Dir.67/548)	EU - GHS Substance Classification	REACH No.
Metamitron	255-349-3	41394-05-2	50 - 60	Xn; R22 N; R50	Acute Tox. 4 (H302) Aquatic Acute 1 (H400)	no data available
sodium alkylnaphthalene sulphonate, formaldehyde condensate	-	-	1 - 5	Xi;R36/38	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	no data available
Aqueous dipropylene glycol solution of approx. 20% 1,2-benzisothiazolin-3-o ne (2634-33-5 (17-23% + 1310-73-2 (5-15%))	·	-	<1	C; R34 Xn; R22 Xi; R43 N; R50	Skin Corr. 1B (H314) Skin Sens. 1 (H317) Acute Tox. 4 (H302) Aquatic Acute 1 (H400)	-
Ethylene glycol	203-473-3	107-21-1	5 - 10	Xn;R22	Acute Tox. 4 (H302)	no data available
sulfated ethoxylates of polyarylphenol	-	-	1 - 5	Xi,R41	Eye Dam. 1 (H318)	no data available

For the full text of the R phrases mentioned in this Section, see Section 16

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

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)

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes
If eye irritation persists, consult a specialist

Skin contact Wash off immediately with plenty of water

Ingestion Do NOT induce vomiting

Call a POISON CENTER or doctor/physician if exposed or you feel unwell

Inhalation Move to fresh air

Call a POISON CENTER or doctor/physician if you feel unwell

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

No information available.

4.3 Indication of immediate medical attention and special treatment needed

Treat symptomatically.

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

Special Hazard Thermal decomposition may release toxic fumes.

5.3 Advice for Firefighters

Wear self-contained breathing apparatus and protective suit

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas Wear protective gloves/clothing and eye/face protection.

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 materials for containment and cleaning up

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

7. Handling and Storage

7.1 Precautions for Safe Handling

Handling

Provide adequate ventilation
Wear personal protective equipment
Ensure that eyewash stations and safety showers are close to the workstation location

Hygiene Measures

Do not eat, drink or smoke when using this product Wash hands after handling

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

No information available.

8. Exposure Controls/Personal Protection

8.1 Control Parameters

Exposure Limits

Apply technical measures to comply with the occupational exposure limits

Chemical name	Eu	United Kingdom	France	Spain	Germany
Ethylene glycol	S*	STEL: 40 ppm	TWA: 20 ppm TWA:	S*	MAK: 10 ppm MAK:
	TWA 20 ppm TWA	STEL: 104 mg/m ³	52 mg/m ³	STEL: 40 ppm	26 mg/m ³
	52 mg/m ³	STEL: 30 mg/m ³	STEL: 40 ppm	STEL: 104 mg/m ³	Ceiling / Peak: 20
	STEL 40 ppm STEL	TWA: 20 ppm TWA:	STEL: 104 mg/m ³		ppm Ceiling / Peak:
	104 mg/m ³	52 mg/m ³ TWA: 10		52 mg/m ³	52 mg/m ³
		mg/m³			Skin
		Skin			TWA: 10 ppm TWA:
			_		26 mg/m ³
Component	Italy	Portugal	Netherlands	Finland	Denmark
Ethylene glycol	TWA: 20 ppm TWA	Ceiling: 100 mg/m ³	Skin	TWA: 20 ppm TWA:	TWA: 10 ppm TWA:
107-21-1 (5 - 10)	52 mg/m ³		STEL: 104 mg/m ³	50 mg/m ³	26 mg/m ³ TWA: 10
	STEL: 40 ppm		TWA: 52 mg/m ³	STEL: 40 ppm	mg/m³
	STEL: 104 mg/m ³		TWA: 10 mg/m ³	STEL: 100 mg/m ³	Skin
	Skin			Skin	
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Ethylene glycol	Skin	Skin	STEL: 50 mg/m ³	TWA: 10 mg/m ³	TWA: 10 mg/m ³
	STEL 20 ppm STEL	STEL: 20 ppm	TWA: 15 mg/m ³	TWA: 20 ppm TWA:	TWA: 20 ppm TWA:
	52 mg/m ³	STEL: 52 mg/m ³		52 mg/m ³	52 mg/m ³
	TWA: 10 ppm TWA:	TWA: 10 ppm TWA:		Skin	STEL: 40 ppm
	26 mg/m ³	26 mg/m ³		Ceiling: 25 ppm	STEL: 104 mg/m ³
				STEL: 104 mg/m ³	Skin
				STEL: 40 ppm	

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration N

No information available

(PNEC)

8.2 Exposure Controls

Engineering controls Ensure adequate ventilation, especially in confined areas

Personal Protective Equipment

Eye protection Safety glasses with side-shields.

Skin protectionLong sleeved clothing.Hand protectionProtective gloves.

Respiratory protection When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators

Environmental exposure controls No information available.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Off-white (white; Yellowish White) appearance

Physical state liauid

suspension concentrate

Odor paint like

Property VALUES Remarks/ Method рΗ

(1% solution)

Melting point/freezing point No information available **Boiling Point/Range** No information available

flash point 112 °C

flammability (solid, gas) No information available

Surface tension 51.8 mN/m 20°C

Relative Density 1.203 Water solubility dispersible

Solubility in Other Solvents No information available Partition coefficient: n-octanol/waterNo information available No information available **Autoignition temperature** decomposition temperature No information available

55 - 324 viscosity 20 °C, Dynamic viscosity

Oxidizing properties Non oxidizing

Explosive properties According to the chemical structure no explosion reaction is expected.

9.2 OTHER INFORMATION

VOC Content No information available

10. Stability and Reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No information available.

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.

11. Toxicological Information

11.1 Information on Toxicological Effects

Acute toxicity

Local effects

Inhalation There is no data available for this product.

Eye contact Skin contactNo eye irritation.
No skin irritation.

Ingestion There is no data available for this product.

 LD50 Oral
 > 2000 mg/kg

 LD50 Dermal
 > 2000 mg/kg

 LC50 Inhalation:
 > 3.49 mg/l

Chronic toxicity

Skin Corrosion/Irritation No information available.

sensitization Did not cause sensitization.

Carcinogenic effects No information available

Mutagenic effects No information available

Reproductive effects No information available

STOT - Single Exposure No information available.

STOT - Repeated Exposure No information available.

12. Ecological Information

12.1 Toxicity

EC50/72h/algae = 2.32 mg/l LC50/48h/daphnia = > 100 mg/l LC50/fish/96 h = > 100 mg/l

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

12.2 Persistence and Degradability

No information available

12.3 Bioaccumulative Potential

No information available

Chemical name	Log Pow		
Metamitron	0.83		
Ethylene glycol	-1.93		

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.

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.

14. Transport Information

ADR/RID

14.1 UN-No UN3082

14.2 Proper shipping name Environmentally hazardous substance, liquid, n.o.s. Metamitron

14.3 Hazard class 9
14.4 Packing group

14.5 Environmental Hazard DANGEROUS FOR THE ENVIRONMENT

14.6 Special Provisions 274, 335, 601

Tunnel restriction code (E)

IMDG/IMO

14.1 UN-No UN3082

14.2 Proper shipping name Environmentally hazardous substance, liquid, n.o.s Metamitron

14.3 Hazard class 9
14.4 Packing group III

14.5 Environmental Hazard Marine Pollutant

14.6 Special Provisions 274, 335

IATA/ICAO

14.1 UN-No UN3082

14.2 Proper shipping name Environmentally hazardous substance, liquid, n.o.s Metamitron

14.3 Hazard class 9
14.4 Packing group ||

14.5 Environmental Hazard DANGEROUS FOR THE ENVIRONMENT

14.6 Special Provisions A97, A158

15. Regulatory Information

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

Registration n° MAPP 16559 (Replaces MAPP 11959)

- To avoid risks to man and the environment, comply with the instructions for use

International Inventories

TSCA Complies EINECS/ Complies

ELINCS

DSL/NDSL Complies
PICCS Complies
ENCS Complies
China -

AICS Complies KECL Complies

<u>Legend</u>

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

16. Other Information

Full text of R-phrases referred to under sections 2 and 3

R22 - Harmful if swallowed

R34 - Causes burns

R41 - Risk of serious damage to eyes

R43 - May cause sensitization by skin contact

R50 - Very toxic to aquatic organisms

R36/38 - Irritating to eyes and skin

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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

H302 - Harmful if swallowed

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

Revision date 11-Dec-2014

Revision note Not applicable

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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