

BETASANA TRIO SC

Preparation Date 07-Mar-2012

Revision date 09-Dec-2014

Revision Number: 2

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

1.1 Identification of the product

Product code HBQ02
Product Description: BETASANA TRIO 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
Xi - Irritant

R-code(s) Xi;R36 N;R50/53

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

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

Human Health

Serious Eye Damage/Irritation Category 2 - H319

Environment

Chronic aquatic toxicity Chronic 2 - H411

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
Xi - Irritant

R -phrase(s)

R36 - Irritating to eyes

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

S -phrase(s)

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

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

S57 - Use appropriate container to avoid environmental contamination

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



hazard statements

H319 - Causes serious eye irritation

H411 - Toxic to aquatic life with long lasting effects

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

P273 - Avoid release to the environment

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

P337 + P313 - If eye irritation persists: Get medical advice/attention

P391 - Collect spillage

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

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

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.
Phenmedipham	237-199-0	13684-63-4	5 - 10	N; R50/53	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	no data available
Desmedipham	237-198-5	13684-56-5	1 - 5	N; R50/R53	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	no data available
Ethofumesate	247-525-3	26225-79-6	10 - 20	N; R51/53	Aquatic Chronic 2 (H411)	no data available
Aqueous dipropylene glycol solution of approx. 20% 1,2-benzisothiazolin-3-one (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)	-
Ethoxylated fatty alcohol	-	- (ND)	1 - 5	Xn; R22 Xi; R41	-	no data available
Tributyl phosphate	204-800-2	126-73-8	< 1	Carc.Cat.3; R40 Xn; R22 Xi; R38	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Carc. 2 (H351)	no data available
Mixutre with Polyacrylate de triethanolamine	-	-	1 - 5	R10 R67	STOT SE 3 (H336)	no data available
Isopropylamine Alkyl Benzene Sulphonate	271-531-5	68584-24-7	1 - 5	Xn; R22 Xi; R38 Xi; R41	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Acute Tox. 4 (H302)	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 soap and plenty of water removing all contaminated clothes and shoes
Ingestion	Call a POISON CENTER or doctor/physician if exposed or you feel unwell Do NOT induce vomiting
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 Smother flames with sand, dry powders or carbon dioxide.
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Special Hazard	Hazardous decomposition products formed under fire conditions: Nitrogen oxides (NOx) Carbon oxides Carbon dioxide (CO2)
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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
Avoid contact with eyes
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
Avoid contact with skin and eyes
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 only in the original container/package in a cool well-ventilated place
Keep out of the reach of children
Protect from light
Keep at temperatures below 30 °C

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
http://limitvalue.ifa.dguv.de/Webform_gw.aspx

Chemical name	Eu	United Kingdom	France	Spain	Germany
Tributyl phosphate		STEL: 5 mg/m ³ TWA: 5 mg/m ³	TWA: 0.2 ppm TWA: 2.5 mg/m ³	TWA: 0.2 ppm TWA: 2.2 mg/m ³	MAK: 1 ppm MAK: 11 mg/m ³ Ceiling / Peak: 4 ppm Ceiling / Peak: 44 mg/m ³ Skin
Component	Italy	Portugal	Netherlands	Finland	Denmark
Tributyl phosphate 126-73-8 (< 1)		TWA: 0.2 ppm		TWA: 0.2 ppm TWA: 2.5 mg/m ³ STEL: 0.4 ppm STEL: 5 mg/m ³	TWA: 0.2 ppm TWA: 2.5 mg/m ³
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Tributyl phosphate	Skin STEL 5 mg/m ³ TWA: 2.5 mg/m ³	Skin STEL: 0.4 ppm STEL: 5 mg/m ³ TWA: 0.2 ppm TWA: 2.5 mg/m ³		TWA: 0.2 ppm TWA: 2.5 mg/m ³ STEL: 0.6 ppm STEL: 5 mg/m ³	TWA: 0.2 ppm

Component	Italy	Portugal	Netherlands	Finland	Denmark
Tributyl phosphate 126-73-8 (< 1)	(ACGIH:) 70 % of baseline red blood cells discretionary Cholinesterase activity Nonspecific				

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available

8.2 Exposure Controls

Engineering controls Ensure adequate ventilation, especially in confined areas

Personal Protective Equipment

Eye protection Safety glasses with side-shields.
Skin protection Long sleeved clothing. (Tyvek).
Hand protection Protective gloves: Nitrile rubber.
Respiratory protection Respiratory protection complying with EN 143

Environmental exposure controls No information available.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

appearance	Off-white	
Physical state	liquid	
Odor	Strong	
<u>Property</u>	<u>VALUES</u>	<u>Remarks/ Method</u>
pH	7.07	CIPAC MT 75
Melting point/freezing point	No information available	
Boiling Point/Range	No information available	
flash point	> 104 °C	EEC A.9
flammability (solid, gas)	Not Applicable	
Specific gravity	1,01	20°C
Solubility in Other Solvents	No information available	
Partition coefficient: n-octanol/water	No information available	
Autoignition temperature	No information available > 400 °C	EEC A.15
decomposition temperature	No information available	
viscosity	122.5 mPa.s. 20°C	
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

Temperatures above 30°C

10.5 Incompatible Materials

Strong bases
Strong oxidizing agents

10.6 Hazardous Decomposition Products

Carbon oxides
Carbon monoxide
Carbon dioxide (CO₂)

11. Toxicological Information

11.1 Information on Toxicological Effects

Acute toxicity**Local effects****Inhalation**

Not Applicable.

Eye contact

Irritating to eyes. (rabbit).

Skin contact

No skin irritation. (rabbit).

Ingestion

No information available.

LD50 Oral

> 2500 mg/kg (rat)

LD50 Dermal

> 4000 mg/kg (rat)

Chronic toxicity**Skin Corrosion/Irritation**

No information available.

corrosivity

No information available.

sensitization

Did not cause sensitization.

repeated dose toxicity

No information available

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 = 0,8 mg/L (Pseudokirchneriella subcapitata)

LC50/48h/daphnia = 34 mg/L

LC50/fish/96 h = 24 mg/L

12.2 Persistence and Degradability

No information available

12.3 Bioaccumulative Potential

No data is available on the product itself.

Chemical name	Log Pow
Phenmedipham	3.59
Desmedipham	3,39
Ethofumesate	2.7
Tributyl phosphate	2.5

12.4 Mobility in Soil

No information available.

12.5 Results of PBT and vPvB Assessment

No information available

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. (Desmedipham, Phenmedipham, Ethofumesate)
14.3 Hazard class	9
14.4 Packing group	III
14.5 Environmental Hazard	Yes
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 (Desmedipham, Phenmedipham, Ethofumesate)
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 (Desmedipham, Phenmedipham, Ethofumesate)
14.3 Hazard class	9
14.4 Packing group	III
14.5 Environmental Hazard	Yes
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 15551

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

International Inventories

TSCA	Complies
EINECS/ ELINCS	Complies
DSL/NDSL	Complies
PICCS	Complies
ENCS	Complies
China	-
AICS	Complies
KECL	Complies

Legend

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

R10 - Flammable
R22 - Harmful if swallowed
R34 - Causes burns
R36 - Irritating to eyes
R38 - Irritating to skin
R40 - Limited evidence of a carcinogenic effect
R41 - Risk of serious damage to eyes
R43 - May cause sensitization by skin contact
R50 - Very toxic to aquatic organisms
R67 - Vapours may cause drowsiness and dizziness

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

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
H315 - Causes skin irritation
H318 - Causes serious eye damage
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness
H351 - Suspected of causing cancer
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
H411 - Toxic to aquatic life with long lasting effects

Revision date 09-Dec-2014

Revision note Update section 2

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 responsibility 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