

BETASANA SC

Preparation Date 29-Feb-2012

Revision Date 29-Feb-2012

Revision Number: 1

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Identification of the product**

Product Code HBP04
Product Description: BETASANA 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 United Phosphorus Ltd
The Centre
Birchwood Park
Warrington
WA3 6YN
Cheshire, UK

Telephone +44 (0) 1925 819999

Telefax +44 (0) 1925 917425

E-mail Address info.uk@uniphos.com

1.4 Emergency telephone number

Emergency Telephone Number **(CARECHEM 24): +44 208 762 8322**

2. HAZARDS IDENTIFICATION

2.1 Classification of the mixture

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

Symbol(s) Xi - Irritant
N - Dangerous for the environment

R-code(s) Xi;R36, R43 - N;R51/53

For the full text of the R phrases 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)
Xi - Irritant
N - Dangerous for the environment

R -phrase(s)
R36 - Irritating to eyes
R43 - May cause sensitization by skin contact
R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S -phrase(s)
S 2 - Keep out of the reach of children
S13 - Keep away from food, drink and animal feedingstuffs
S24 - Avoid contact with skin
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
S37 - Wear suitable gloves
S57 - Use appropriate container to avoid environmental contamination

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	10 - 20	N; R50/53	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	No data available
Alcohols, C11-14-iso-, C13-rich, ethoxylated		78330-21-9	1 - 5	Xn;R22 Xi;R41	Eye Dam. 1 (H318) Acute Tox. 4 (H302)	No data available
Isopropylamine Alkyl Benzene Sulphonate	271-531-5	68584-24-7	5 - 10	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

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

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 No information available.

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.

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

Ensure adequate ventilation

Wear personal protective equipment

Avoid contact with 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

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

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.

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	
	suspension concentrate	
Odor	Hydrocarbon.	
<u>Property</u>	<u>Values</u>	<u>Remarks/ Method</u>
pH	6.38	(25°C - 1% solution)
Melting point/freezing point	No information available	
Boiling Point/Range	No information available	
Flash Point	< 85 °C	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Specific Gravity	1.0030 g/mL	20°C
Water Solubility	No information available	
Solubility in other solvents	No information available	
Partition coefficient: n-octanol/water	No information available	
Autoignition Temperature	> 400 °C	
Decomposition temperature	No information available.	
Viscosity	113 mPa.S (20°C)	EEC A.3
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 35°C

10.5 Incompatible materials

Strong oxidizing agents

Strong acids

10.6 Hazardous decomposition products

Burning produces obnoxious and toxic fumes

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity

Local effects

Inhalation

There is no data available for this product.

Eye Contact

Moderately irritating to the eyes. (rabbit).

Skin Contact

Moderately irritating to the skin. (rabbit).

Ingestion

There is no data available for this product.

LD50 Oral

> 2000 mg/kg (rat)

LD50 Dermal

> 4000 mg/kg (rat)

Skin corrosion/irritation

No information available.

Corrosivity

No information available.

Sensitization

May cause sensitization by skin contact.

Repeated Dose Toxicity

No information available.

Carcinogenic effects

No information available.

Mutagenic Effects

No information available.

Reproductive Effects

No information available.

12. ECOLOGICAL INFORMATION**12.1 Toxicity**

EC50/72h/algae = 2 mg/L (Chlorella vulgaris)

EC50/48h/daphnia = 14 mg/L

LC50/fish/96 h = 4.4 mg/L (Rainbow trout)

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

Chemical Name	log Pow
Phenmedipham	3.59

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. (Phenmedipham)
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 (Phenmedipham)
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 (Phenmedipham)
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

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

International Inventories

TSCA	Complies
EINECS/ ELINCS	Complies
DSL/NDL	Complies
PICCS	Complies
ENCS	Complies
CHINA	-
AICS	Complies
KECL	Complies

Legend

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

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

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU 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

R36 - Irritating to eyes

R38 - Irritating to skin

R41 - Risk of serious damage to eyes

R43 - May cause sensitization by skin contact

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

R51/53 - 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

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

Revision Date 29-Feb-2012**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 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