

UPL B Zone

Preparation Date 22-May-2012

Revision Date 22-May-2012

Revision Number: 1

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

Product Code HCK01
Product Description: UPL B Zone
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**

United Kingdom NHS Direct (UK): +44 0845 46 47

2. HAZARDS IDENTIFICATION

2.1 Classification of the mixture

Symbol(s) Xn - Harmful

R-code(s) Xn;R22 - R43

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

2.2 Label Elements

Xn



Symbol(s)
Xn - Harmful

R -phrase(s)
R22 - Harmful if swallowed
R43 - May cause sensitization by skin contact

S -phrase(s)
S 2 - Keep out of the reach of children
S13 - Keep away from food, drink and animal feedingstuffs
S23 - Do not breathe gas/fumes/vapour/spray
S24 - Avoid contact with skin
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
S20/21 - When using, do not eat, drink or smoke
S36/37 - Wear suitable protective clothing and gloves

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.
Bentazone	246-585-8	25057-89-0	40 - 50	Xn;R22 Xi;R36 R43 R52/53	Acute Tox. 4 (H302) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Aquatic Chronic 3 (H412)	No data available
Sodium hydroxide	215-185-5	1310-73-2	5 - 10	C;R35	Skin Corr. 1A (H314)	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	In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, 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
Inhalation	Move to fresh air Seek immediate medical attention/advice.

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
Foam
Dry powder
Carbon dioxide (CO₂)

Unsuitable Extinguishing Media No information available.

5.2 Special hazards arising from the substance or mixture

Special hazard Carbon monoxide
Carbon dioxide (CO₂)
nitrogen oxides (NO_x)

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
Do not breathe vapours or spray mist
Use personal protective equipment
Avoid contact with skin, eyes and clothing

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

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.

7.2 Conditions for safe storage, including any incompatibilities

Avoid extreme high or low temperatures

Keep away from heat

Protect from sunlight

Store away from frost.

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
Sodium hydroxide		STEL: 2 mg/m ³	TWA: 2 mg/m ³	STEL: 2 mg/m ³	

Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
Sodium hydroxide		Ceiling: 2 mg/m ³		STEL: 2 mg/m ³ Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³

Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Sodium hydroxide	STEL 4 mg/m ³ TWA: 2 mg/m ³	STEL: 2 mg/m ³ TWA: 2 mg/m ³	NDSCh: 1 mg/m ³ TWA: 0.5 mg/m ³	Ceiling: 2 mg/m ³	STEL: 2 mg/m ³

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.

Hand Protection Protective 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

Appearance	Yellow - Red	
Physical State	Liquid	
	Soluble concentrate	
Odor	Very faint.	
<u>Property</u>	<u>Values</u>	<u>Remarks/ Method</u>
pH	Approx. 6 - 7	
Melting point/freezing point	- 5 °C	approx.
Boiling Point/Range	No information available	
Flash Point	No flash point below 100°C, when solvent boils off	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Specific Gravity	1.19	
Water Solubility	Completely soluble	
Solubility in other solvents	No information available	
Partition coefficient: n-octanol/water	0.77 (pH : 5)	(Bentazone)
Autoignition Temperature	No information available	
Decomposition temperature	No information available.	
Viscosity		
Oxidizing Properties	No information available	
Explosive Properties	According to the chemical structure no explosion reaction is expected.	

9.2 Other information

VOC Content None

10. STABILITY AND REACTIVITY

10.1 Reactivity

None under normal use.

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 bases
Strong acids
Strong oxidizing agents

10.6 Hazardous decomposition products

None under normal use

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity

Local effects

Inhalation	Harmful if inhaled.
Eye Contact	Slightly irritating.
Skin Contact	No skin irritation. (Bentazone).
Ingestion	There is no data available for this product.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Bentazone 25057-89-0	= 1400 - 1800 mg/kg (Rat)	> 5000 mg/kg (Rat)	> 5.10 mg/l

Chronic Toxicity

Skin corrosion/irritation	No information available.
Sensitization	Skin sensitization. (Bentazone).
Repeated Dose Toxicity	No information available
Carcinogenic effects	There are no known carcinogenic chemicals in this product.
Mutagenic Effects	No information available.

Reproductive Effects No. (Bentazone).

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Chemical Name	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Bentazone	EC50 : 10.1 mg/l (A. flos-aque, 120 h)	LC50 (96 h) > 100 mg/l (O. mykiss)		EC50 (96 h, D. magna) =64 mg/l
Sodium hydroxide		LC50 96 h: = 45.4 mg/L static (Oncorhynchus mykiss)		

12.2 Persistence and degradability

Not readily biodegradable. (Bentazone).

12.3 Bioaccumulative potential

Does not bioaccumulate. (Bentazone).

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)

This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

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 Not regulated.
14.2. Proper Shipping Name
14.3. Hazard Class
14.4. Packing Group
14.5. Environmental hazard
14.6. Special Provisions

IMDG/IMO

- 14.1. UN-No Not regulated.
14.2. Proper Shipping Name
14.3. Hazard Class
14.4. Packing Group
14.5. Environmental hazard
14.6. Special Provisions

IATA/ICAO

- 14.1. UN-No Not regulated.
14.2. Proper Shipping Name
14.3. Hazard Class
14.4. Packing Group
14.5. Environmental hazard
14.6. Special Provisions

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

CLASSIFICATION ACCORDING TO MAPP N°14808
THE REGISTRATION APPROVAL

- 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	Complies
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 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

R35 - Causes severe burns

R36 - Irritating to eyes

R43 - May cause sensitization by skin contact

R52/53 - Harmful 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

H314 - Causes severe skin burns and eye damage

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H412 - Harmful to aquatic life with long lasting effects

Revision Date 22-May-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