

## ASULOX

Preparation Date 02-Apr-2013

Revision Date 02-Apr-2013

Revision Number: 1

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Identification of the product

Product Code HBM01  
Product Description: ASULOX  
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  
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 Direct (UK): +44 0845 46 47

## 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)** R43 N;R50

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)**  
R43 - May cause sensitization by skin contact  
R50 - Very toxic to aquatic organisms

**S -phrase(s)**  
S24 - Avoid contact with skin  
S37 - Wear suitable gloves  
S57 - Use appropriate container to avoid environmental contamination  
S60 - This material and its container must be disposed of as hazardous waste

### 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.
Asulam sodium	218-953-8	2302-17-2	40 - 50	Xi;R43	Skin Sens. 1 (H317)	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

<b>General Advice</b>	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
<b>Eye Contact</b>	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 symptoms persist, call a physician
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water If symptoms persist, call a physician
<b>Ingestion</b>	Call a POISON CENTER or doctor/physician if exposed or you feel unwell
<b>Inhalation</b>	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**      Carbon dioxide (CO<sub>2</sub>)  
Dry powder  
Foam  
Water spray

**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**      Burning produces obnoxious and 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  
Avoid contact with the skin and the 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

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

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

Keep away from food, drink and animal feeding stuffs

Store away from frost

Keep away from direct sunlight

### 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://www.ser.nl/nl/taken/adviserende/grenswaarden.aspx>

**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

<b>Appearance</b>	Yellowish
<b>Physical State</b>	Liquid Soluble concentrate
<b>Odor</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks/ Method</u>
<b>pH</b>	7 - 8	
<b>Melting point/freezing point</b>	No information available	
<b>Boiling Point/Range</b>	Not available	
<b>Flash Point</b>	Not required	
<b>Evaporation rate</b>	No information available	
<b>Flammability (solid, gas)</b>	No information available	
<b>Specific Gravity</b>	1.204 g/l	
<b>Water Solubility</b>	Miscible with water	
<b>Solubility in other solvents</b>	No information available	
<b>Partition coefficient: n-octanol/water</b>	No information available	
<b>Autoignition Temperature</b>	No information available	
<b>Decomposition temperature</b>	No information available.	
<b>Viscosity</b>	No information available	
<b>Oxidizing Properties</b>	Non oxidizing (according to A17 test)	
<b>Explosive Properties</b>	According to the chemical structure no explosion reaction is expected.	

### 9.2 Other information

<b>VOC Content</b>	No information available
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## 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

Avoid extreme high or low temperatures  
Exposure to light

### 10.5 Incompatible materials

No materials to be especially mentioned

### 10.6 Hazardous decomposition products

No information available

**11. TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects****Acute Toxicity****Local effects**

<b>Inhalation</b>	Not classified.
<b>Eye Contact</b>	No eye irritation. (rabbit).
<b>Skin Contact</b>	No skin irritation. (rabbit).
<b>Ingestion</b>	Not classified.

<b>LD50 Oral</b>	> 8000 mg/kg (rat)
<b>LD50 Dermal</b>	> 2000 mg/kg (rat)
<b>LC50 Inhalation:</b>	> 1.7 mg/L

**Chronic Toxicity**

<b>Skin corrosion/irritation</b>	No information available.
<b>Sensitization</b>	Skin: Sensitizing.
<b>Carcinogenic effects</b>	No information available
<b>Mutagenic Effects</b>	No information available
<b>Reproductive Effects</b>	No information available
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

EC50/72h/algae = 0.19 mg/L (120h)  
EC50/48h/daphnia = 63,4 mg/L  
LC50/fish/96 h = > 175 mg/L

### 12.2 Persistence and degradability

No information available

### 12.3 Bioaccumulative potential

No information available

### 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

<b>Waste from Residues / Unused Products</b>	Dispose of in accordance with local regulations.
<b>Contaminated Packaging</b>	Empty containers should be taken for local recycling, recovery or waste disposal.
<b>EWC waste disposal No</b>	020108 - agrochemical waste containing dangerous substances.
<b>Other Information</b>	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. (Asulam sodium)
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 (Asulam sodium)
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 (Asulam sodium)
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 13175

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

**International Inventories**

<b>TSCA</b>	Complies
<b>EINECS/ ELINCS</b>	Complies
<b>DSL/NDSL</b>	Complies
<b>PICCS</b>	Complies
<b>ENCS</b>	Complies
<b>CHINA</b>	-
<b>AICS</b>	Complies
<b>KECL</b>	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**

R43 - May cause sensitization by skin contact

R50 - Very toxic to aquatic organisms

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

H317 - May cause an allergic skin reaction

**Revision Date** 02-Apr-2013**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**