



# Safety Data Sheet

This safety data sheet was created pursuant to the requirements of:  
Regulation (EC) No. 1907/2006

## ASULOX

Preparation Date 26-May-2015

Revision date 24-Jul-2019

Revision Number: 3

### Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Identification of the product

Product code	HBM01
Product Description	ASULOX
Formulation	Asulam 400 g/L SL
Synonyms	-
Pure substance/preparation	Preparation

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

Recommended use	Herbicide
Sector(s) of use	SU1 - Agriculture, forestry, fishery
Product category	PC27 - Plant protection products

#### 1.3 Details of the Supplier of the Safety Data Sheet

Supplier	UPL Europe Ltd Engine Rooms Birchwood Park Warrington WA3 6YN Cheshire UK Tel. : +44 (0) 1925 819999 Fax : +44 (0) 1925 856075
E-mail address	sds.info@upl-ltd.com

#### 1.4 Emergency Telephone Number

Emergency Telephone	(CARECHEM 24): +44 (0) 1235 239670
Ireland	National Poisons Information Centre (IE): +353 1 8379964

## Section 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

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

**Skin sensitization** Category 1 - (H317)

**Acute aquatic toxicity** Category 1 - (H400)

**Chronic Aquatic Toxicity** Category 1 - (H410)

#### **Additional information**

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

### 2.2 Label elements

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



signal word

WARNING

#### **Hazard Statements**

H317 - May cause an allergic skin reaction

H410 - Very toxic to aquatic life with long lasting effects

#### **Precautionary statements**

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P273 - Avoid release to the environment

P280 - Wear protective gloves and protective clothing

P302 + P352 - IF ON SKIN: Wash with plenty of water and soap

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P391 - Collect spillage

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

#### **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

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2. Mixtures

Chemical name	CAS No	EC No	Index-No.	REACH No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Asulam sodium	2302-17-2	218-953-8	-	-	40 - 50	Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)

Full text of H- and EUH-phrases: see section 16

### Section 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)

##### **Inhalation**

- Move to fresh air
- Call a POISON CENTER or doctor if you feel unwell

##### **Eye contact**

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- If eye irritation persists, consult a specialist

##### **Skin contact**

- Wash off immediately with plenty of water
- If symptoms persist, call a physician

##### **Ingestion**

- Rinse mouth with water
- Call a POISON CENTER or doctor if you feel unwell

##### **Self-protection of the first aider**

- First aider: Pay attention to self-protection

#### 4.2 Most Important Symptoms and Effects, Both Acute and Delayed

##### **Symptoms**

- No information available

#### 4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

##### **Note to physicians**

- Treat symptomatically

## Section 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

#### **Hazardous combustion products**

- Burning produces obnoxious and toxic fumes

### 5.3 Advice for Firefighters

- Wear self-contained breathing apparatus and protective suit

## Section 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

#### **For non-emergency personnel**

##### *Personal Precautions*

- Avoid contact with skin and eyes
- Wear protective gloves/protective clothing and eye/face protection

##### *Emergency procedures*

- Evacuate personnel to safe areas

#### **Emergency responder**

- Use personal protective equipment as required
- Evacuate personnel to safe areas

### 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 material for containment and cleaning up

#### **Methods for containment**

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

#### **Methods for cleaning up**

- Take up mechanically, placing in appropriate containers for disposal

#### **Prevention of secondary hazards**

- Clean contaminated objects and areas thoroughly observing environmental regulations

### 6.4 Reference to other sections

- No information available

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**Section 7: HANDLING AND STORAGE**

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**7.1 Precautions for safe handling****Advice on safe handling**

- Provide adequate ventilation
- Use only outdoors or in a well-ventilated area
- Ensure that eyewash stations and safety showers are close to the workstation location

**General hygiene considerations**

- Do not eat, drink or smoke when using this product
- Keep away from food, drink and animal feeding stuffs
- Avoid contact with skin and eyes
- Wash hands before breaks and immediately after handling the product
- Remove contaminated clothing and protective equipment before entering eating areas

**7.2 Conditions for safe storage, including any incompatibilities**

- Keep containers tightly closed in a dry, cool 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**

- Herbicide
- Please refer to the product labeling and packaging for information about appropriate use

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**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**8.1 Control Parameters****Exposure Limits**

- Contains no substances with occupational exposure limit values

**8.2 Exposure Controls****Engineering controls**

- Ensure adequate ventilation, especially in confined areas

**Personal Protective Equipment***Eye/face protection*

- Safety glasses with side-shields
- Eye protection must conform to standard EN 166

*Hand protection*

- Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Wash gloves when contaminated. Dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed.

Wash hands frequently and always before eating, drinking, smoking or using the toilet.

- Gloves must conform to standard EN 374

- Material : Nitrile rubber

- Rate of permeability : > 480 min

- Glove thickness : > 0,4 mm

*Skin and body protection*

- Wear standard coveralls and Category 3 Type 4 suit.

If there is a risk of significant exposure, consider a higher protective type suit.

Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.

*Respiratory protection*

- When workers are facing concentrations above the exposure limit they must use appropriate certified respirators

**General hygiene considerations**

- Handle in accordance with good industrial hygiene and safety practice

**Environmental exposure controls**

- Local authorities should be advised if significant spillages cannot be contained
- Do not allow into any sewer, on the ground or into any body of water
- Prevent product from entering drains

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	Yellowish	
<b>Physical state</b>	Liquid	
<b>Odor</b>	No information available	
<u>Property</u>	<u>VALUES</u>	<u>Remarks/ Method</u>
<b>pH</b>	6.8	(1 % solution) CIPAC 75.2
<b>Melting point/freezing point</b>	No information available	
<b>Boiling Point/Range</b>	No information available	
<b>Flash Point</b>	Not required	EC A.9
<b>Flammability (solid, gas)</b>	Not required	
<b>Relative Density</b>	1.205	20°C, EC A.3
<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	EC A.15
<b>Decomposition temperature</b>	No information available	
<b>Viscosity</b>	2.36 mm <sup>2</sup> /s	40°C, Viscosity, kinematic, CIPAC MT 22
<b>Oxidizing properties</b>	Non oxidizing	EC A.21
<b>Explosive properties</b>	Not an explosive	EC A.14

### 9.2 OTHER INFORMATION

**VOC Content** No information available

## Section 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

- No information available

### 10.2 Chemical stability

- Stable under normal conditions

### 10.3 Possibility of hazardous reactions

- None under normal processing

### 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

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**Section 11: TOXICOLOGICAL INFORMATION**

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**11.1 Information on Toxicological Effects****Acute toxicity**

*LD50 Oral* > 2000 mg/kg (rat) - OECD 423  
*LD50 Dermal* > 2000 mg/kg (rat) - OECD 402  
*LC50 Inhalation* > 1.7 mg/l (rat) (Asulam) - US EPA 81-3

**Skin corrosion/irritation**

- No skin irritation, OECD 404

**Serious eye damage/eye irritation**

- No eye irritation, OECD 405

**Respiratory or skin sensitization**

- May cause an allergic skin reaction, OECD 406

**Germ cell mutagenicity**

- No information available

**Carcinogenicity**

- **Asulam** : Not classified, OECD 453

**Reproductive toxicity**

- **Asulam** : Not classified, OECD 416

**Specific target organ toxicity (single exposure)**

- No information available

**Specific target organ toxicity (repeated exposure)**

- No information available

**Aspiration hazard**

- No information available



## Section 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

*EC50/72h/algae* = >0.66 mg Asulam/L (Anabaena flos-aquae) - OECD 201

*EC50/48h/daphnia* = 57.87 mg Asulam/L (Daphnia magna) - EPA 72-2

*LC50/fish/96 h* = >91.3 mg Asulam/L (Lepomis macrochirus) - OECD 203

**EC50/14d/aquatic plants** = 0.27 mg Asulam/L (Lemna gibba) - EPA 122-2 & 123-2

### 12.2 Persistence and Degradability

- Soil: DT50 = 4.6 d

### 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

## Section 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

## Section 14: TRANSPORT INFORMATION

### 14.1 UN Number

- ADR, IMDG, IATA : UN3082

### 14.2 UN proper shipping name

- ADR : Environmentally hazardous substance, liquid, n.o.s. ( Asulam sodium )
- IMDG : Environmentally hazardous substance, liquid, n.o.s ( Asulam sodium )
- IATA : Environmentally hazardous substance, liquid, n.o.s ( Asulam sodium )

### 14.3 Transport Hazard Class(es)

*Hazard class*

- ADR, IMDG, IATA : 9

*Subsidiary class*

- ADR, IMDG, IATA : Not applicable

### 14.4 Packing Group

- ADR, IMDG, IATA : III

### 14.5 Environmental Hazards

- ADR, IATA : Yes
- IMDG : Marine pollutant

### 14.6 Special Precautions for User

*Special Provisions*

- ADR : 274, 335, 375, 601
- IMDG : 274, 335, 969
- IATA : A97, A158, A197

### 14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC CODE

- Not applicable

## Section 15: REGULATORY INFORMATION

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

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

**Substances subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals :**

- Asulam sodium (CAS 2302-17-2)

### 15.2 Chemical safety assessment

- A chemical safety assessment has not been carried out

**Section 16: OTHER INFORMATION****Full text of H-Statements referred to under sections 2 and 3**

- H317 - May cause an allergic skin reaction
- H400 - Very toxic to aquatic life
- H410 - Very toxic to aquatic life with long lasting effects

**Classification procedure**

- On basis of test data

**Abbreviations and acronyms**

- CLP : Classification, Labelling and Packaging = Regulation (EC) No 1272/2008
- CAS : Chemical Abstracts Service
- EC No : EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- LDx : Lethal dose to x %
- LCx : Lethal concentration to x %
- ECx : Effective concentration to x %
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
- Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
- Very Persistent and very Bioaccumulative (vPvB) Chemicals
- EWC : European Waste Catalogue
- ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road
- IMDG : International Maritime Dangerous Goods Code
- IATA : International Air Transport Association

**Preparation Date** 26-May-2015

**Revision date** 24-Jul-2019

**Reason for revision** **New formatting**

**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 + Commission Regulation (EU) No 2015/830 of 28 May 2015**

**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**