



Safety Data Sheet

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

ASULOX

Preparation Date 02-Apr-2013

Revision date 05-Mar-2019

Revision Number: 1

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 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	(CARECHEM 24): +44 (0) 1235 239670
United Kingdom	NHS no. 111

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 (CO₂)
- 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

Section 7: HANDLING AND STORAGE

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

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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**Eyeface 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

Appearance	Yellowish	
Physical state	Liquid	
Odor	No information available	
<u>Property</u>	<u>VALUES</u>	<u>Remarks/ Method</u>
pH	6.8	(1 % solution) CIPAC 75.2
Melting point/freezing point	No information available	
Boiling Point/Range	No information available	
Flash Point	Not required	EC A.9
Flammability (solid, gas)	Not required	
Relative Density	1.205	20°C, EC A.3
Water solubility	Miscible with water	
Solubility in Other Solvents	No information available	
Partition coefficient: n-octanol/water	No information available	
Autoignition temperature	Not flammable	EC A.15
Decomposition temperature	No information available	
Viscosity	2.36 mm ² /s	40°C, Viscosity, kinematic, CIPAC MT 22
Oxidizing properties	Non oxidizing	EC A.21
Explosive properties	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

Section 11: TOXICOLOGICAL INFORMATION**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

Registration n°

MAPP 13175

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

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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