

**1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING****Product name:** ASULOX**Synonyms:** ASUL-IT**Company name:** United Phosphorus Limited

Hall Lane

Rookery Bridge

Sandbach

Cheshire

CW11 3QQ

Tel: 01270 766666

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**2. HAZARDS IDENTIFICATION****Main hazards:** May cause sensitisation by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.**3. COMPOSITION / INFORMATION ON INGREDIENTS****Hazardous ingredients:** ASULAM SODIUM SALT 30-50%

EINECS: 218-953-8 CAS: 2302-17-2

[Sens.] R43; [N] R50/53

**4. FIRST AID MEASURES (SYMPTOMS)****Skin contact:** There may be mild irritation at the site of contact.**Eye contact:** There may be irritation and redness.**Ingestion:** No data available**4. FIRST AID MEASURES (ACTION)****Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. Consult a doctor.**Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.**Ingestion:** Wash out mouth with water. Consult a doctor. Do not induce vomiting.**Inhalation:** Move to fresh air in case of accidental inhalation of vapours. Consult a doctor.**5. FIRE-FIGHTING MEASURES****Extinguishing media:** Water spray. Alcohol resistant foam. Dry chemical powder. do not use high volume water jet.**Exposure hazards:** In case of fire the evolution of dangerous gases is possible**Protection of fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes. IN THE EVENT OF FIRE /EXPLOSION DO NOT BREATHE FUMES.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions:** If outside keep bystanders upwind and away from danger point. Avoid contact with skin, eyes, clothing and inhalation of vapours, aerosols or dusts. Wear suitable protective clothing, boots, gloves, eye and face protection.

**Environmental precautions:** Do not discharge into drains or rivers. IF SPILLAGE ENTERS DRAINS LEADING TO SEWAGE WORKS, INFORM LOCAL WATER COMPANY IMMEDIATELY.

**Clean-up procedures:** Absorb into dry earth or sand. Wash the spillage site with large amounts of water. Transfer to a suitable container.

**7. HANDLING AND STORAGE**

**Handling requirements:** no specific precautions required when handling unopened packs/containers; follow relevant manual handling advice. When using do not eat or drink. Ensure there is exhaust ventilation of the area.

**Storage conditions:** Store in cool, well ventilated area. Keep away from direct sunlight. Protect from frost. Keep container tightly closed. Storage temperature 0 - 30 °C store in a place accessible by authorised persons only.

**Suitable packaging:** Must only be kept in original packaging.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Engineering measures:** Refer to COSHH assessment (Control of substances Hazardous to Health Regulations 1999 as amended). Engineering controls should be used in preference to personal protective equipment wherever practicable.

**Respiratory protection:** Respiratory protection not required.

**Hand protection:** Nitrile gloves.

**Eye protection:** Safety goggles. EN166

**Skin protection:** Protective clothing. TYPE 3 SUIT.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**State:** Liquid

**Colour:** Yellow-brown

**Odour:** Characteristic odour

**Solubility in water:** Miscible

**Relative density:** 1.20 g/cm<sup>3</sup> at 20 °C

**pH:** 7-8 @100%

**10. STABILITY AND REACTIVITY**

**Stability:** Stable under normal conditions.

**Conditions to avoid:** Direct sunlight. Heat.

**Materials to avoid:** none

**Haz. decomp. products:** None

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity:** ASULOX  
IHL RAT LC50 >1.7 4 hrs mg/L  
ORL RAT LD50 >8000 mg/kg  
SENSITIZATION: SENSITIZING (GUINEA)  
SKN RAT LD50 >2000 mg/kg

**Hazardous ingredients:** ASULAM SODIUM SALT  
IHL RAT LC50 >5.46 mg/L  
ORL RBT/RATS LD50 >5000 mg/kg  
SKN RBT LD50 >5000 mg/kg

**Chronic toxicity:** no skin and eye irritation. (Rabbit)

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** ASULOX  
ALGAE selenastrum capricor 120H EC50 0.19 mg/l  
DAPHNIA magna 48H EC50 63.4 mg/l  
FISH TROUT 96H LC50 >175 mg/l

**Hazardous ingredients:** ASULAM SODIUM SALT  
ALGAE 120H EC50 >0.19 mg/l  
DAPHNIA magna 48H EC50 >63.4 mg/l  
FISH RAINBOW TROUT 96H LC50 >175 mg/l

## 13. DISPOSAL CONSIDERATIONS

**Disposal operations:** In accordance with current regulations may be taken to waste disposal site or incineration plant, after consultation with site operator and/or with the responsible authority. Can be landfilled or incinerated, when in compliance with local regulations. Advice

**Waste code number:** 020108

**Disposal of packaging:** Packaging that cannot be cleaned should be disposed of as product waste. Empty containers can be landfilled after cleaning, when in compliance with local regulations. Return to supplier.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## 14. TRANSPORT INFORMATION

### ADR / RID

**UN no:** 3082

**ADR Class:** 9

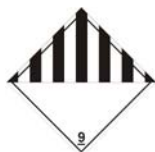
**Packing group:** III

**Classification code:** M6

**Shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ASULAM - SODIUM SOLUTION)

**SAFETY DATA SHEET**

ASULOX

**Labelling:** 9**Hazard ID no:** 90**IMDG / IMO****UN no:** 3082**Class:** 9**Packing group:** III**EmS:** F-A,S-F**Marine pollutant:** MARINE POLLUTANT**Labelling:** 9**IATA / ICAO****UN no:** 3082**Class:** 9**Packing group:** III**Subsidiary risk:** N/A**Packing instructions:** 914**Labelling:** 9**15. REGULATORY INFORMATION****Hazard symbols:** Irritant.

Dangerous for the environment.

**Risk phrases:** R43: May cause sensitisation by skin contact.

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

**Safety phrases:** S24: Avoid contact with skin.

S37: Wear suitable gloves.

S61: Avoid release to the environment. Refer to special instructions / safety data sheets.

**Note:** The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

**16. OTHER INFORMATION****Risk phrases used in s.3:** R43: May cause sensitisation by skin contact.

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

## **SAFETY DATA SHEET**

ASULOX

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.