

**NOMIX ENVIRO MATERIAL SAFETY DATA SHEET**  
**HILITE**

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**1. IDENTIFICATION**

**Preparation** : **HILITE**

**Supplier** : Nomix Enviro, A Division of Frontier Agriculture Ltd,  
The Grain Silos, Weyhill Road, Andover,  
Hampshire, SP10 3NT.  
Tel: 01264 388050

**Chemical Emergency Agency Service (24 hr):** Tel. + 44 (0)1865 407 333

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**2.COMPOSITION/INFORMATION ON INGREDIENTS**

**Active ingredient:** Isopropylamine salt of N-(phosphonomethyl)glycine;  
{Isopropylamine salt of glyphosate}

Chemical Name	No. CAS No.EINECS Index No.	Hazard Symbol(s) and Risk Phrase(s)	Concentration (%)
Isopropylamine salt of N-(Phosphonomethyl)Glycine (Contains 192g/l of the Isopropylamine salt of Glyphosate equivalent to 144 g/l glyphosate)	38641-94-0 254-056-8 015-184-00-8	Aquatic Chronic 2 H411	20.1
Other formulating ingredients including mineral oils		EUH066	79.9

**Composition:**

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**3. HAZARDS IDENTIFICATION**

**Classification of the substance or mixture**

**Classification according to Regulation (EC) No. 1272/2008 [EU-GHS/CLP]**  
Chronic aquatic toxicity (Category 2)

**Label elements:**

**Labelling according to Regulation (EC) No. 1272/2008 [EU-GHS/CLP]**

Pictogram(s)



Signal word

Warning

Hazard statement(s)

H410 Very toxic to aquatic life with long lasting effects

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Precautionary statements(s)

P273 Avoid release to the environment.  
P280 Wear protective gloves.  
P391 Collect spillage.  
P501 Dispose of contents/container to a licensed waste-disposal contractor in accordance with 'The Waste Management Regulations (England & Wales) Regulations 2006'.

Supplemental Hazard statements

None

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**4. FIRST-AID MEASURES**

**Never give fluids or induce vomiting if patient is unconscious or is having convulsions.**

**Inhalation:**

If inhalation of vapour, mists or fumes causes irritation of the nose or throat, or coughing remove patient to fresh air. If irritation persists obtain medical advice.

**Skin contact:**

Remove contaminated clothing immediately. Wash contaminated skin immediately with plenty of soap and water. If irritation persists get medical attention.

**Eye Contact:**

Flush immediately with plenty of water, for at least 15 minutes. If pain, redness or irritation persists, get medical attention.

**Ingestion:**

If oral contamination occurs, wash out mouth with water. If swallowed do not induce vomiting, seek medical advice immediately and show the container, label or this data sheet.

**Medical Advice:**

**Over exposure symptoms:** No symptoms diagnostic of systemic poisoning with this product.

**Physician:**

No specific antidote. This product is not an inhibitor of cholinesterase, and treatment with atropine and oximes is not indicated. Treat symptomatically.

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**5. FIREFIGHTING RELEASE MEASURES**

**Unusual hazards:**

Material burns to give toxic fumes.

**Extinguishing media:**

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Extinguish with dry chemical, foam, waterspray, CO<sub>2</sub>. Firefighters, and other exposed, wear self contained breathing apparatus. Thoroughly clean equipment after use.

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## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions:

Use personal protection recommended in section 8.

### Environmental precautions :

Contain liquid spillage with sand or other means to prevent entry into drains.

### Methods for cleaning up:

Absorb in earth or sand. Sweep up into containers for disposal. Dig up heavily contaminated soil and place in drums. (Refer to section 10 for types of containers and drums) Wash spill area with soap and water. Refer to section 13 for disposal of spilled material.

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## 7. HANDLING AND STORAGE

### Handling:

Good industrial practice in housekeeping and personal hygiene should be followed.

Wear suitable protective clothing (coveralls, suitable protective gloves) and rubber boots during application. Do not breathe fumes, vapour or spray. When using do not eat, drink or smoke. Wash hands immediately after handling. Wash contaminated clothing before reuse. Thoroughly clean equipment after use.

### Storage:

Keep out of reach of children. Keep away from food, drink and animal feeding stuffs. Keep at temperature not exceeding 30°C. Store above 0°C. Keep container tightly closed.

Keep only in the original container. Do not re-use container for any other purpose.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Occupational exposure limits:

Not applicable

### Engineering measures:

See section 10 - "Materials to avoid" for equipment.

### Respiratory protection:

If exposed to vapour or spray, wear suitable respiratory protective device. However this requirement should not arise in normal use.

### Hand protection:

Wear suitable protective (eg nitrile) gloves.



### Eye protection:

No special requirement when used as recommended.

### Skin protection:

Wear suitable protective clothing (coveralls, suitable protective gloves) and rubber boots during application.



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**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	:	Opaque
<b>Colour</b>	:	White liquid
<b>Odour</b>	:	Oil-like
<b>Flash Point</b>	:	97 °C.
<b>Specific Gravity</b>	:	0.97 (at 20 °C)
<b>Solubility in water</b>	:	Immiscible - disperses

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**10. STABILITY AND REACTIVITY**

**Conditions to avoid:**

Not applicable.

**Materials to avoid:**

Galvanised steel or unlined steel containers (except stainless steel).

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**11. TOXIC HAZARD**

**Laboratory data:**

The toxicological information given here is not necessarily exhaustive but is representative of relevant, reliable data. All tests were conducted following OECD guidelines for Good Laboratory Practices (GLP).

**Formulation:**

Acute oral toxicity LD<sub>50</sub> (rat) : > 5 000 mg/kg.

Acute dermal toxicity LD<sub>50</sub> (rabbit) : >2 000 mg/kg.

Non-irritating to eyes (rabbit) for purposes of classification.

Non-irritating to skin (rabbit) for purposes of classification.

No sensitising potential in Guinea pigs.

**Active Ingredient:**

Test on glyphosate showed that it did not cause any mutagenic, carcinogenic, teratogenic or adverse reproductive effects. It is not neurotoxic and does not inhibit cholinesterase.

**Human Experience:**

If swallowed, may cause gastrointestinal tract irritation (discomfort, nausea, vomiting, diarrhoea).

**Other Ingredients:**

Mineral oils may cause defatting of the skin and subsequently dermatitis in the event of repeated skin contact.

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**12. ECOLOGICAL INFORMATION**

**Aquatic toxicity:**

96 hour LC<sub>50</sub>: Rainbow Trout = > 150 mg/l.

48 hour LC<sub>50</sub>: Daphnia magna = 0.52 mg/l (nominal)

72 hour EC<sub>50</sub>: Algae (selenastrum capricornutum) = > 150 mg/l.

**No Observable Effect:**

Concentration (NOEL): Algae (selenastrum capricornutum) = 68 mg/l.

**Other Wildlife toxicity:**

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Tests in a variety of mammalian, avian and aquatic species have shown that Glyphosate does not bio-accumulate. Mineral oils are harmful to aquatic life.

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**13. DISPOSAL CONSIDERATIONS**

**Product:**

Absorb in earth or sand. Shovel up into covered containers for disposal. Dig up heavily contaminated soil and place in drums. (Refer to section 10 for types of containers and drums). Send to special chemical waste disposal facility or burn only in special, controlled high temperature incinerator. Do not empty into drains. Flush spill area with water.

**Container:**

Empty container completely before disposal. Dispose of container through a reputable waste disposal contractor. Do not contaminate waterways, ponds or ditches with waste product or container. All local and national regulations should be followed.

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**14. TRANSPORT INFORMATION**

ADR Class/Conveyance class: 9  
Packing group: III  
UN No: 3082  
Environmentally Hazardous Substance

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**15. REGULATORY INFORMATION**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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**16. OTHER INFORMATION**

**Text of H code(s) mentioned in section 2**

H411: Toxic to aquatic life with long lasting effects

EUH066 Repeated exposure may cause skin dryness or cracking

Due to mineral oil component use of gloves is advised to prevent possible defatting / dermatitis from prolonged skin contact.

The information contained within this Material Safety Data Sheet does not constitute the users own assessment of workplace risk as required by other national health and safety legislation such as the Health and Safety at Work Act (1974) (UK only) and the Control of Substances Hazardous to Health Regulations (2002 and subsequent amendments) (UK only)

Date of MSDS Review : 01.09.16

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