

**NOMIX ENVIRO MATERIAL SAFETY DATA SHEET**  
**NOMIX SYSTEMIC WEEDKILLER**

Page 1 of 6

<b>1.</b>	<b>IDENTIFICATION</b>
<b>Preparation</b>	: <b>NOMIX SYSTEMIC WEEDKILLER</b>
<b>Supplier</b>	: 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 1865 407 333

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

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

**Composition :**

Chemical Name	No. CAS No.EINECS Index No.	Hazard Symbol(s) and Risk Phrase(s)				Concentration (%)
		67/548/EEC		CLP: EC1272/2008		
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	N	R 51/53	Aquatic Chronic 2	H411	18.3
Other formulating ingredients		Xi	R36	Eye Irrit.2	H319	81.7

**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)

Eye Irritation (Category 2)

**Classification according to EU Directive 67/548/EEC or 1999/45/EC**

Toxic to aquatic life, may cause long-term adverse effects in the aquatic environment.

Causes serious eye irritation.

**Label elements:**

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

Pictogram



**NOMIX ENVIRO MATERIAL SAFETY DATA SHEET**  
**NOMIX SYSTEMIC WEEDKILLER**

Page 2 of 6

Signal word	Warning
<u>Hazard statement(s)</u>	H411 Toxic to aquatic life with long lasting effects H319 Causes serious eye irritation
<u>Precautionary statements(s)</u>	P273 Avoid release to the environment. 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'. P264 Wash hands and face thoroughly after handling P280 Wear eye protection P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so and continue rinsing. P337+P313 If eye irritation persists get medical advice / attention.
<u>Supplemental Hazard statements</u>	None

**Labelling according to EU Directive 67/548/EEC or 1999/45/EC**

<u>Hazard Symbol(s):</u>	Xi, Irritant N, Dangerous for the environment
<u>Risk Phrase(s):</u>	R36 Irritating to eyes R51/53 Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.
<u>Safety Phrase(s):</u>	S25 Avoid contact with eyes S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S39 Wear eye protection. S29/35 Do not empty into drains; dispose of this material and its container in a safe way. S57 Use appropriate containment to avoid environmental contamination. S61 Avoid release to the environment. Refer to special instructions/Safety data sheets. SP1 Do not contaminate water with the product or its container. Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads
<u>Other Hazards</u>	None

**NOMIX ENVIRO MATERIAL SAFETY DATA SHEET**  
**NOMIX SYSTEMIC WEEDKILLER**

Page 3 of 6

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**4. FIRST-AID MEASURES**

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

**Inhalation:**

If breathed in move patient into fresh air. If not breathing give artificial respiration. Consult a physician.

**Skin contact:**

Remove contaminated clothing immediately. Wash contaminated skin immediately with plenty of soap and water. Consult a physician.

**Eye Contact:**

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

**Ingestion:**

If swallowed, seek medical advice immediately and show the container, label or this data sheet.

**Medical Advice:**

No symptoms diagnostic of systemic poisoning with this product.

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

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**5. FIREFIGHTING RELEASE MEASURES**

**Unusual hazards:**

Packaging combustible. Keep containers cool by spraying with water if exposed to fire.

**Extinguishing media:**

Extinguish with dry chemical, foam, water spray, 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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# NOMIX ENVIRO MATERIAL SAFETY DATA SHEET

## NOMIX SYSTEMIC WEEDKILLER

Page 4 of 6

### 7. HANDLING AND STORAGE

#### Handling:

Good industrial practice in housekeeping and personal hygiene should be followed. Wear suitable protective gloves and face protection (face-shield) when connecting and disconnecting the container. Wear suitable protective clothing (coveralls), suitable protective gloves, face protection (face-shield) and rubber boots during application. Do not breathe gas, 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. Recommended maximum shelf life : 2 years. This product separates upon storage - shake pack gently before use. Do not re-use container for any other purpose.

### 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:

Use face protection



#### Skin protection:

Wear suitable protective gloves and face protection (faceshield) when connecting and disconnecting the container. Wear suitable protective clothing (coveralls), suitable protective gloves, face protection (faceshield) and rubber boots during application.



### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Milky
Colour	:	White liquid
Odour	:	Paraffinic
Flash Point	:	66°C
Specific Gravity	:	1.05 (at 20/4°C)
pH	:	Approx 4.8
Solubility in water	:	Completely miscible – disperses

**NOMIX ENVIRO MATERIAL SAFETY DATA SHEET**  
**NOMIX SYSTEMIC WEEDKILLER**

Page 5 of 6

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**10. STABILITY AND REACTIVITY**

**Conditions to avoid:**

See "Materials to avoid"

**Materials to avoid**

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

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**11. TOXIC HAZARD**

**Laboratory data:**

**Formulation:**

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

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

Moderate eye irritant (rabbit)

No sensitising potential in Guinea pigs:

**Other adverse effects:**

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).

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**12. ECOLOGICAL INFORMATION**

**Aquatic toxicity:**

96 hour LC<sub>50</sub>: Rainbow Trout = 29 mg/l.

48 hour LC<sub>50</sub>: Daphnia magna = 4.7 mg/l (nominal)/2.5 mg/l (analytical).

72 hour EC<sub>50</sub>: Algae (selenastrum capricornutum) = 69 mg/l.

**No Observable Effect:**

Concentration (NOEC): Daphnia magna = 3.2 mg/l (Nominal)/1.7 mg/l (analytical).

Concentration (NOEL): Algae (selenastrum capricornutum) = 10 mg/l.

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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). Bury in approved landfill or burn in proper incinerator. Do not empty into drains. Flush spill area with water.

**Container:**

Empty container completely before disposal. Burn in proper incinerator.

Do not contaminate waterways with waste product or container.

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**14. TRANSPORT INFORMATION**

**ADR Class/Conveyance class:** 9

**Packing group:** III

**UN No:** 3082

**NOMIX ENVIRO MATERIAL SAFETY DATA SHEET**  
**NOMIX SYSTEMIC WEEDKILLER**

Page 6 of 6

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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) and R phrase(s) mentioned in section 3

H411	Toxic to aquatic life with long lasting effects
H319	Causes serious eye irritation
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R36	Irritating to eyes.

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) and the Control of Substances Hazardous to Health Regulations (2002 and subsequent amendments).

Date of MSDS Preparation: 14.10.14

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