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**1. IDENTIFICATION****Preparation**: **TOUCHE****Supplier**: Nomix Enviro Ltd, Portland Building,  
Portland Street, Staple Hill, Bristol BS16 4PS.  
Tel. 0117 9574 574 Fax. 0117 9563 461**Chemical Emergency Agency Service (24 hr):** Tel. 01865 407 333

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**2. COMPOSITION/INFORMATION ON INGREDIENTS****Composition**

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ISOPROPYLAMINE SALT OF N-(PHOSPHONOMETHYL) GLYCINE (Isopropylamine  
salt of Glyphosate) 145.3 g/l (13.3% w/w)  
(Equivalent to 109 g/l glyphosate)

CAS No. 38641-94-0

N'-(3,4-DICHLOROPHENYL)-N,N-DIMETHYLUREA 217.6 g/l (20% w/w)  
(Diuron)  
CAS NO. 330-54-1

Other formulating ingredients: 66.7% w/w.

**Registration No:** **07913**

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**3. HAZARDS IDENTIFICATION****Human health effects:**

On the basis of available information, this material is not expected to produce any significant adverse health effects when recommended use instructions are followed.

**Environmental effects:**

On the basis of available information, this material is not expected to produce any significant adverse environmental effects when recommended use instructions are followed.

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**4. FIRST-AID MEASURES****Never give fluids or induce vomiting if patient is unconscious or is having convulsions.****Inhalation:**

Remove patient to fresh air. If breathing is difficult give oxygen. Obtain medical advice.

**Skin contact:**

Take off immediately all contaminated clothing. If spilled into boots, immediately remove boots and contaminated clothing. Wash immediately with plenty of soap and water if available. Wash contaminated clothing before re-use.

**Eye Contact:**

Rinse immediately with plenty of water. Obtain medical advice if symptoms persist.

**Ingestion:**

Do not induce vomiting. Obtain medical attention immediately.

**Medical Advice:**

**Over exposure symptoms:** No symptoms indicative of systemic poisoning with this product. Do not empty stomach without effective airway protection. No specific antidote. Treat symptomatically.

**5. FIREFIGHTING RELEASE MEASURES**

**Flammability :**  
Not applicable. Non flammable product.

**Procedure:**  
Isolate the hazard area and prevent entry. Wear self-contained positive breathing apparatus and full fire-fighting protective clothing. Decontaminate emergency personnel when leaving fire area.

**Extinguishing type:**  
Keep containers cool by spraying with water if exposed to fire. Extinguish preferably with foam, dry chemical, CO<sub>2</sub> or water spray. Use as little water as possible.  
Dyke other areas to prevent pesticide run-off.

**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.

**7. HANDLING AND STORAGE**

**Handling:**  
Good industrial practice in housekeeping and personal hygiene should be followed. Do not breath gas, fumes, vapour or spray. When using do not eat, drink or smoke. Wash hands immediately after handling. Thoroughly clean equipment after use.

**Storage:**  
Keep out of reach of children. Keep away from food, drink and animal feeding stuffs. Keep container tightly closed. Keep only in the original container. Store between 0°C and 30°C. Minimum expected shelf life stored at ambient temperatures: 2 years.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Occupational exposure limits:**

	Long term exposure limit (8 hour TWA reference period)		Short term exposure limit (10 minute reference period)	
	ppm	mg m <sup>-3</sup>	ppm	mg m <sup>-3</sup>
Diuron	-	10	-	-
Glyphosate	None assigned		None assigned	

**Engineering measures:**  
See section 10 - "Materials to avoid" for equipment.

**Respiratory protection:**

No special requirement when used as recommended owing to the engineering controls provided when using the Nomix applicator. If at any other time exposure is expected to vapour or spray, wear suitable respiratory protective device.

**Hand protection:**

No special requirement during handling or application

**Eye protection:**

No special requirement when used as recommended.

**Skin protection:**

When applying, wear suitable impermeable protective clothing and impermeable coverall or impermeable trousers and rubber boots. Wear trousers outside boots.

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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>	:	> 100 <sup>0</sup> C. Non flammable
<b>Specific Gravity</b>	:	1.083 at 20 <sup>0</sup> C
<b>pH</b>	:	4.1
<b>Solubility in water</b>	:	Completely miscible - disperses

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**10. STABILITY AND REACTIVITY**

<b>Conditions to avoid</b>	:	Not applicable.
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**Materials to avoid and hazardous decomposition products:**

This material will react with galvanised or unlined steel (except stainless steel) to produce hydrogen, a highly flammable gas that can cause explosions. Avoid contact with galvanised steel or unlined steel. Should be stored in the ready-to-use pack.

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**11. TOXICOLOGICAL INFORMATION**
**Formulation:**

**Oral LD<sub>50</sub>** (rat) : > 5 000 mg/kg.

**Dermal LD<sub>50</sub>** (rat) : >2 000 mg/kg. Not harmful in contact with skin.

**Eye irritation** : score 3 (rabbit, 24 h): 0 for redness, 0 for swelling, 0 for corneal opacity and 0 for damage to the iris - Not irritating to eyes.

**Skin irritation** : scores 3 (rabbit, 4h) : 1/ 1/ 0/33 for redness; 0.33 / 0 / 0 for swelling - Not irritating to skin. Not sensitising to skin.

**Human Experience:**

If swallowed, may cause gastrointestinal tract irritation (discomfort, nausea, vomiting, diarrhoea). If large quantities of the concentrated product are swallowed, may result in hypotension and pulmonary edema.

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**12. ECOLOGICAL INFORMATION**
**Isopropylamine salt of glyphosate****Aquatic toxicity:**

96h LD<sub>50</sub> Bluegill sunfish Lepomis macrochirus) = > 1 000 mg/l.

96h LD<sub>50</sub> Rainbow Trout Oncorhynchus mykiss = > 1 000 mg/l.

48 EC<sub>50</sub>. Water Flea (Daphnia magna) = 930 mg/l.

**Wildlife toxicity:**

14 day LC<sub>50</sub>. Earthworm (Eisenia foetida foetida) = > 5 000 mg/kg.

**Bioaccumulation:**

Glyphosate does not bioaccumulate.

**Diuron****Aquatic toxicity:**

96h LC<sub>50</sub>. Rainbow trout (Oncorhynchus mykiss) = 4.9 mg/l.

96h LC<sub>50</sub>. Bluegill sunfish (Lepomis macrochirus) = 8.2 mg/l.

24 h EC<sub>50</sub>: Water Flea (Daphnia magna) = 1.4 mg/l.

**13. DISPOSAL CONSIDERATIONS****Product:**

Send in special chemical waste disposal facility or burn only in special, controlled high temperature incinerator.

**Container:**

Dispose of container through a reputable waste disposal contractor. Do not contaminate waterways, ponds or ditches with waste product or container.

**14. TRANSPORT INFORMATION**

**ADR Class/Conveyance class:** 9

**Packing group:** III

**UN No:** 3082

Environmentally Hazardous Substance

**15. REGULATORY INFORMATION**

This product is covered by the Control of Pesticides Regulations (1986) and has been labelled in accordance with these regulations.

**Hazard Symbol:** **Xn, Harmful**  
**N, Dangerous for the environment**

**Risk Phrases:** **R40 Possibility of irreversible effects**  
**R51 Toxic to aquatic organisms.**  
**R53 May cause long term adverse effects in the aquatic environment**

**Safety Phrases:**

WEAR SUITABLE PROTECTIVE CLOTHING (IMPERMEABLE COVERALL OR IMPERMEABLE TROUSERS) AND RUBBER BOOTS when applying the product.

DO NOT BREATHE SPRAY.

WASH ALL PROTECTIVE CLOTHING thoroughly after use, especially the insides of gloves.

WASH ANY CONTAMINATION from skin or eyes immediately.

WASH HANDS AND EXPOSED SKIN before meals and after work.

KEEP OUT OF REACH OF CHILDREN.

**TOXIC TO AQUATIC ORGANISMS** Do not contaminate surface waters or ditches with chemical or used container.

KEEP IN ORIGINAL CONTAINER, tightly closed in a safe place,  
EMPTY CONTAINER COMPLETELY and dispose of safely.

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**16. OTHER INFORMATION**

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 (1988).

Date of MSDS Review : 07.07.04      Supersedes MSDS Dated : 1.11.03

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