

## **PRODUCT SAFETY INFORMATION**

(This section does not form part of the product label under the Control of Pesticides Regulations 1986)

---

<b>1.</b>	<b>IDENTIFICATION</b>
<b>Preparation</b>	: <b>DEXTRONE X</b>
<b>Supplier</b>	: Nomix Enviro Ltd, Portland Buildings, 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

---

<b>2.</b>	<b>COMPOSITION/INFORMATION ON INGREDIENTS</b>
<b>Composition</b>	: A bipyridyl contact herbicide, An aqueous solution containing emetic, stench, surfactants and dye.

<b>Hazardous Ingredient(s)</b>	<b>:</b>	<b>CAS No.</b>	<b>g/l</b>	<b>Symbol</b>	<b>R Phrases</b>
Paraquat (as paraquat ion)	:	004685-14-7	200	T	R24/25 R36/37/38 R50, 53
Paraquat Emetic	:	027277-00-5	<10	T	R25
Pyridine Bases	:	068391-11-7	10	T	R24 R20/22 R34 R10

---

### **3. HAZARDS IDENTIFICATION**

**Human health effects:**

POISON: PARAQUAT CAN KILL IF SWALLOWED.

DO NOT PUT IN A FOOD OR DRINKS CONTAINER.

THE POISONS RULE 1982, AVAILABLE FROM HSMO APPLIES TO THIS PRODUCT.

Toxic if swallowed.

Harmful in contact with skin.

Irritating to eyes and skin.

May cause irritation to the respiratory system.

#### **4. FIRST-AID MEASURES**

##### **OBTAIN IMMEDIATE MEDICAL ATTENTION - SPEED IS ESSENTIAL.**

Refer to the booklet "Paraquat Poisoning, A Practical Guide to Diagnosis, First Aid and Hospital Treatment".

For further advice, contact SYNGENTA 24 hour emergency number:-  
01484 538444 or the nearest Poisons Information Centre.

##### **Inhalation:**

Remove patient from exposure, keep warm and at rest. Obtain medical attention.

##### **Skin contact:**

Take off immediately all contaminated clothing. Wash skin immediately with water, followed by soap and water. Such action is essential to minimise contact with skin.

##### **Obtain medical attention.**

Contaminated clothing should be laundered before re-issue.

##### **Eye Contact:**

Immediately irrigate with eyewash solution or clean water, holding the eyelids apart. for at least 10 minutes. Obtain immediate medical attention.

##### **Ingestion:**

**OBTAIN IMMEDIATE MEDICAL ATTENTION. SPEED IS ESSENTIAL.**

Immediately transfer patient to nearest hospital or medical centre, warning by telephone of the estimated arrival time so that the start of treatment is not delayed. Induce vomiting, if this has not already occurred, by tickling the back of the throat with a clean, blunt instrument (e.g spoon handle).

##### **Further Medical Advice:**

Give up to 1 litre of 15% aqueous suspension of Fuller's Earth orally or via gastric tube, together with a suitable purgative (200 ml of a 20% aqueous solution of mannitol).

**HOSPITAL TREATMENT:** Refer to the booklet

'The Treatment of Paraquat' Poisoning.' (Guide for Doctors).

Wash out stomach and testurine and gastric aspirate (if clear) for the presence of paraquat.

Repeat administration of absorbent plus purgative until absorbent is seen in the stools. This should normally take between 4 and 6 hours after the start of treatment.

Do not use supplemental oxygen.

---

#### **5. FIREFIGHTING RELEASE MEASURES**

Keep fire exposed containers cool by spraying with water

##### **Extinguishing media:**

For small fires, use foam, carbon dioxide, dry powder or halon extenguishant. For large fires, use foam or water-fog; avoid use of water jet. Contain run-off water with, for example, temporary earth barriers.

##### **Fire Fighting Protective Equipment:**

A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

---

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions:

Ensure suitable personal protective during removal of spillages. This means wearing eye protection, chemically resistant gloves, boots and coveralls.

### Methods of cleaning up:

Adsorb spillages onto sand, earth or any suitable absorbent material. Transfer to a container for disposal. Wash the spillage area with water. Washings must be prevented from entering surface water drains.

### Environmental precautions:

Spillage's or uncontrolled discharges into water courses must be alerted to the appropriate regulatory body.

---

## 7. HANDLING AND STORAGE

### Handling:

Read the label before use. Avoid contact with skin and eyes. Do not breath spray. When using do not eat, drink or smoke. Wash face and hands before eating, drinking or smoking.

### Storage:

Keep locked up. Keep in original containers, tightly closed, out of reach of children. Keep away from food, drink and animal feeding stuffs. Protect from frost. Storage life at least 2 years when stored in the original unopened sales container at ambient temperature.

---

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

When using this product refer to the label for details.

### Occupational exposure

limits	:	LTEL 8hr (TWA)		STEL		
HAZARDOUS INGREDIENT(s)	:	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
Paraquat Dichloride (Respirable Dust)	:	-	0.1	-	-	OES
Paraquat Emetic	:	-	0.02	-	-	COM
Pyridine Bases	:	1	5	-	-	COM Sk

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	liquid
Colour	:	dark blue / green
Odour	:	characteristic of pyridine bases
pH (Value)	:	6.5 - 7.5
Boiling Point (Deg C)	:	approx 100
Melting Point (Deg C)	:	Not available
Flash Point	:	Does not flash
Auto Ignition Temperature (Deg C)	:	Not available
Vapour Pressure (mm Hg)	:	Not available
Density (g/ml)	:	1.08 at 20°C
Solubility in water	:	soluble

---

---

**10. STABILITY AND REACTIVITY**

**Conditions to avoid:**

Paraquat is highly corrosive to most metals e.g. aluminium, zinc, iron.

**Materials to avoid and hazardous decomposition products:**

Combustion or thermal decomposition will evolve toxic and irritant vapours.

---

**11. TOXICOLOGICAL INFORMATION**

**Inhalation:**

High concentrations of mist may be irritant to the respiratory tract.

Nose bleeding and soreness of the throat may result from spray mist or dust trapped on the nasal mucosa. If this occurs review spraying and handling technique.

**Skin Contact:**

Harmful in contact with skin. Moderate/severe irritant to rabbit skin. It is not a skin sensitiser in animal tests.

Dermal Median Lethal Dose (590mg formulation/kg male); (735mg formulation/kg, female) (rat).

**Eye Contact:**

Moderate irritant to rabbit eyes. May cause eye irritation in man.

**Ingestion:**

PARAQUAT CAN KILL IF SWALLOWED

Oral Median Lethal Dose (707mg formulation/kg, male); (612mg formulation/kg, female) (rat).

**Long Term Exposure:**

No long term risks to man are associated with the normal handling and use of this material.

---

**12. ECOLOGICAL INFORMATION**

**Environmental Fate and Distribution:**

Paraquat is rapidly absorbed and de-activated by soil.

**Toxicity:**

Very Toxic to aquatic organisms. Harmful to livestock. Paraquat is harmful to hares.

---

**13. DISPOSAL CONSIDERATIONS**

**Product:**

Do not contaminate ponds, waterways or ditches with chemical or used containers. Surplus material must be disposed of as detailed in the 'Guidelines for the avoidance, limitation and disposal of pesticide waste on the farm' GIFAP, 1987.

**Container:**

Empty containers should be washed and discarded. Empty containers should not be used for other purposes. Disposal should be in accordance with local, state or national legislation.

---

**14. TRANSPORT INFORMATION**

UN No. : 2922 (IMDG):  
UN Packing. Group : III  
Class – primary: 8 Corrosive  
- subsidiary: 6.1 Toxic substance

**Sea**

Class – primary: 8 Corrosive  
- subsidiary: 6.1 Toxic substance  
Proper Shipping Name : CORROSIVE LIQUID, TOXIC, N.O.S. (Contains Paraquat Dichloride, 28%)  
Marine Pollutant : No

**Road/Rail**

Class – primary: 8 Corrosive  
- subsidiary: 6.1 Toxic substance  
Proper Shipping Name : CORROSIVE LIQUID, TOXIC, N.O.S. (Contains Paraquat Dichloride, 28%)

---

**15. REGULATORY INFORMATION**

This product is covered by the control of Pesticides Regulations, 1986. It has therefore been labelled in accordance with these Regulations. Users should ensure that they comply with any relevant local, state or national legislation.

**Hazard Symbol:**            **T     TOXIC**  
                                     **N     DANGEROUS FOR THE ENVIRONMENT**

**Risk Phrases:**

R21/22: Harmful in contact with skin and if swallowed  
R36/37/38: Irritating to eyes, respiratory system and skin.  
R 48/25 Toxic: danger of serious damage to health by prolonged exposure if swallowed  
R50/53: Very toxic to aquatic organism, may cause long term adverse effects in the environment

**Safety Phrases:**

S2 Keep out of reach of children  
S13 Keep away from food, drink and animal feeding stuffs  
S20/21 When using do not eat drink or smoke  
S35 This material and its container must be disposed of in a safe way  
S36/37 Wear suitable protective clothing and gloves  
S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible)  
S57 Use appropriate containment to avoid environmental contamination

---

**16.**

**ADDITIONAL 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).

Read the label before you buy: Use pesticides safely.

Date of MSDS Review : 06.06.04 Supersedes MSDS Dated : 25.03.04

This MSDS is based on information supplied by the Manufacturers

The information in this data sheet is to the best of our knowledge true and accurate, but all instructions, recommendations and suggestions are made without guarantee. Since the conditions of use are beyond their control, Nomix Enviro Ltd and its subsidiaries disclaim any liability for loss or damage suffered from use of this information. Furthermore no liability is accepted if use of any product in accordance with these instructions, recommendations and suggestions infringes any patent.

© Nomix Enviro Limited 2004