

**Section 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Product Name: Hytrol - Xtra Strength Weedkiller  
Product Number(s): P4422 (1L), P2209 (500ml)

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Weedkiller

**1.3 Details of the supplier of the safety data sheet**

Hygeia Chemicals Limited, Carrowmoneash, Oranmore, Co. Galway  
Tel: 091-794722 Fax: 091-794738 email: [services@hygeia.ie](mailto:services@hygeia.ie)

**1.4 Emergency telephone number**

National Poisons Information Centre (Tel: 01-8379964) (Fax: 01-8368476)

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**Section 2: Hazards Identification****2.1 Classification according to Regulation (EC) 1272/2008 [EU-GHS/CLP]**

Not classified

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008 (CLP):**

**Hazard pictogram:** Not Classified

**Signal words:** Not Classified

**Hazard statements:** EUH401: To avoid risks to human health and the environment, comply with the instructions for use

**Precautionary statements:** P101: If medical advice is needed, have product container or label at hand

P102: Keep out of reach of children

P103: Read label before use

P501: Dispose of contents/container to an approved waste disposal plant, except for empty triple rinsed containers, which may be disposed of as non-hazardous waste

**2.3 Other hazards**

Not available

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**Section 3: Composition/information on ingredients****3.1 Substances**

Not available

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## 3.2 Mixtures

Name	No.	Classification	% Wt.
Glyphosate	CAS No: 38641-94-0	Aquatic Chronic 2: H411	10-20%
Isopropylamine Salt	EINECS No: 254-056-8		

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## Section 4: First Aid Measures

### 4.1 Description of First Aid Measures

**Skin Contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. Consult a doctor if irritation develops

**Eye Contact:** Bathe the eye with running water for 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Transfer to hospital for specialist examination

**Ingestion:** Wash out mouth with water. Do not induce vomiting. Drink several glasses of water or milk. If vomiting occurs, rinse mouth and drink fluids again. Consult a doctor

**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Light cases: Keep person under surveillance. Get medical attention immediately if symptoms develop. Serious cases: Get medical attention immediately or call for an ambulance

### 4.2 Most important symptoms and effects, both acute and delayed

**Skin Contact:** There may be mild irritation at the site of contact

**Eye Contact:** There may be irritation and redness

**Ingestion:** Ingestion of similar formulations has been reported to produce gastrointestinal discomfort with nausea, vomiting and diarrhoea. Ingestion of large quantities of a similar product has been reported to result in hypotension and lung oedema

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest

### 4.3 Indication of any immediate medical attention and special treatment needed

**Immediate/Special Treatment:** Immediate medical attention is required in case of eye contact. The irritating effects of this product can be treated as usual against effects of acids or acid fumes. Possible mucosal damage may contraindicate the use of gastric lavage

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## Section 5: Firefighting Measures

### 5.1 Extinguishing media

Dry chemical or carbon dioxide for small fires, water spray or foam for large fires. Avoid heavy hose streams. Use water spray to cool containers

### 5.2 Special hazards arising from the substance or mixture

**Exposure Hazards:** In combustion emits toxic fumes. The essential breakdown products are carbon monoxide, carbon dioxide, phosphorus pentoxide and nitrogen oxides

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes. Contaminated fire extinguishing water should not be discharged into drains

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## Section 6: Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

In the case of large spills, (10 tonnes or more) alert the appropriate authorities. Refer to Section 8 of SDS for personal protection details. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid. Avoid and reduce mist formation as much as possible

### 6.2 Environmental precautions

Do not discharge into drains or rivers. Contain the spill using bunding. Wash waters must be prevented from entering surface water drains. Accidental release into water courses must be alerted to the appropriate regulatory body

### 6.3 Methods and material for containment and cleaning up

Surface water drains within close vicinity of the spill should be covered. Spills on the floor or other impervious surface should be absorbed onto an absorptive material such as universal binder, attapulgate, bentonite or other absorbent clays. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Rinse the area with water and industrial detergent. Absorb wash liquid onto absorbent and transfer to suitable containers. Large spills which soak into the ground should be dug up and placed in suitable containers. Spills in water should be contained as much as possible by isolation of the contaminated water. The contaminated water must be collected and removed for treatment or disposal. Refer to Section 13 of SDS for suitable method of disposal

### 6.4 Reference to other sections

Refer to Section 8 of SDS. Refer to Section 13 of SDS

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## Section 7: Handling and Storage

### 7.1 Precautions for safe handling

Avoid direct contact with the substance. Material should be handled by mechanical means as much as possible. Ensure there is sufficient ventilation of the area. Clean protective clothing and protective equipment with soap and water after use. Collect all wash water and dispose of as hazardous waste. The product or its spray solutions should be mixed, stored or applied using only stainless steel, aluminium, fibreglass, plastic or plastic-lined containers

### 7.2 Conditions for safe storage, including any incompatibilities

Store in cool, well-ventilated area. Keep container tightly closed. The storage room should be constructed of incombustible material, closed, dry, ventilated and with impermeable floor. The room should only be used for storage of chemicals, and without access to unauthorised persons/children/animals. Food, drink, feed and seed should not be present. A hand wash station should be available

### 7.3 Specific end use(s)

This product is a registered pesticide, which may only be used for the applications it is registered for, in accordance with a label approved by the regulatory authorities

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## Section 8: Exposure Controls/Personal Protection

### 8.1 Control Parameters

**Workplace Exposure Limits:** No data available

#### Glyphosate (ISO)

<u>Type</u>	<u>Exposure</u>	<u>Value</u>	<u>Population</u>	<u>Effect</u>
DNEL	-	0.32 mg/kg.bw/day	-	Systemic
PNEC	-	0.028 mg/l	Aquatic	-

### 8.2 Exposure Controls

<b>Engineering Measures:</b>	When used in a closed system, personal protection equipment will not be required. The following is meant for other situations, when the use of a closed system is not possible, or when it is necessary to open the system. Consider the need to render equipment or piping system non-hazardous before opening
<b>Respiratory Protection:</b>	The product is not likely to present an airborne exposure concern during normal handling, but in the event of a discharge of the material which produces a heavy vapour or mist, workers should put on officially approved face mask or respiratory protection. Respiratory protection with universal filter type, including particle filter
<b>Hand Protection:</b>	Wear heavy duty natural rubber gloves. The breakthrough time of these gloves for the product is unknown, but it is expected that they will give adequate protection. Replace gloves frequently and limit work done manually
<b>Eye Protection:</b>	Safety glasses. Ensure eye bath is to hand
<b>Skin Protection:</b>	Waterproof pants and apron of chemical resistant material or coveralls with PE coating will be sufficient for short term exposure. Coveralls must be discarded after use if contaminated. In cases of prolonged exposure, barrier laminate coveralls may be required
<b>Environmental:</b>	Refer to specific Member State legislation for requirements under community environmental legislation

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## Section 9: Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

<b>Physical State:</b>	Liquid
<b>Colour:</b>	Colourless
<b>Odour:</b>	Slight amine-like odour
<b>Specific Gravity:</b>	1.080 g/ml @ 20°C
<b>Oxidising:</b>	Non-oxidising (by EC criteria)
<b>Solubility in Water:</b>	Miscible
<b>Viscosity:</b>	24.6 mPa.s @ 25°C 11.9 mPa.s @ 45°C (based on 360g/l Glyphosate)
<b>Boiling Point/Range °C:</b>	> 100
<b>Melting Point/Range °C:</b>	< 0
<b>Flash Point °C:</b>	> 100
<b>pH:</b>	4-6 (typical)

## 9.2 Other information

No data available

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## Section 10: Stability and Reactivity

### 10.1 Reactivity

Stable under recommended transport or storage conditions

### 10.2 Chemical stability

Stable under normal conditions

### 10.3 Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below

### 10.4 Conditions to avoid

Avoid heat

### 10.5 Incompatible materials

Do not mix, store or apply this product or spray solutions of this product in galvanised or unlined steel containers or spray tanks. Stainless steel may be used. This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture with air. This gas mixture could flash or explode if ignited, causing serious personal injury

### 10.6 Hazardous decomposition products

In combustion emits toxic fumes. See Sub-section 5.2

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## Section 11: Toxicological Information

### 11.1 Information on toxicological effects

#### Glyphosate Isopropylamine Salt

**Acute Oral Toxicity:** (LD<sub>50</sub>) Rat: > 2000mg/kg

**Acute Dermal Toxicity:** (LD<sub>50</sub>) Rat: > 4000mg/kg

**Skin Contact:** There may be mild irritation at the site of contact

**Eye Contact:** There may be irritation and redness

**Ingestion:** Ingestion of similar formulations has been reported to produce gastrointestinal discomfort with nausea, vomiting and diarrhoea. Ingestion of large quantities of a similar product has been reported to result in hypotension and lung oedema

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest

**Delayed/Immediate Effects:** No data available

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## Section 12: Ecological Information

### 12.1 Toxicity

Ecotoxicity:

- 96H LC<sub>50</sub> - Rainbow Trout (*Oncorhynchus mykiss*): > 1000 mg/l

- 48H EC<sub>50</sub> - Daphnids (*Daphnia magna*): > 1000 mg/l

- 72H IC<sub>50</sub> - Green Algae (*Pseudokirchneriella subcapitata*): 189 mg/l

## 12.2 Persistence & Degradability

Glyphosate is not readily biodegradable. It undergoes slow degradation in the environment and in waste water treatment plants. No adverse effects are found at concentrations up to 100 mg/l in waste water treatment plants. Degradation is mainly microbiological and aerobic, but anaerobic degradation does also occur. Degradation half lives in the environment vary much with the circumstances, but are usually around 3-30 days in aerobic soil and water. The product contains minor amounts of not readily biodegradable ingredients, which may not be degradable in waste water treatment plants

## 12.3 Bioaccumulative Potential

Glyphosate: log Kow = -3.3. Glyphosate is not expected to bioaccumulate. In several studies on bioaccumulation of Glyphosate, both in marine and freshwater systems, only low bioaccumulation factors were found

## 12.4 Mobility in Soil

In the environment Glyphosate is not mobile, but is rapidly deactivated by adsorption to clay particles. Glyphosate binds strongly to soil

## 12.5 Results of PBT and vPvB Assessment

This product is not identified as PBT substance

## 12.6 Other Adverse Effects

No data available

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## Section 13: Disposal Considerations

### 13.1 Waste treatment methods

**Product Disposal:** Waste that cannot be reused or chemically reprocessed can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems

**Container Disposal:** Triple rinse (or equivalent) and offer for recycling or reconditioning. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials. Alternatively, packaging can be delivered to a licensed service for disposal of hazardous waste  
N.B. The user's attention is drawn to the possible existence of regional or national regulations regarding disposal

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## Section 14: Transport Information

### 14.1 UN number

N/A

### 14.2 UN Proper shipping Name

NOT CLASSIFIED AS DANGEROUS IN THE MEANING OF TRANSPORT REGULATIONS

### 14.3 Transport Hazard Class(es)

N/A

### 14.4 Packing Group

N/A

### 14.5 Environmental Hazards

**Environmentally Hazardous:** No      **Marine Pollutant:** No

### 14.6 Special Precautions for User

Do not discharge to the environment

### 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

The product is not transported in bulk tankers

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**Section 15: Regulatory Information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

All ingredients in this product are covered by EU chemical legislation

**15.2 Chemical safety assessment**

A chemical safety assessment has not been carried out for this substance

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**Section 16: Other Information****Text of Phrases mentioned in Sections 2 and 3:****H-Statements**

**H411** Toxic to aquatic life with long lasting effects

**EUH401** To avoid risks to human health and the environment, comply with the instructions for use

*The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, release and is not to be considered a warranty of quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text*