

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

Product Name: New Hytrol - Path & Drive Weedkiller
Product Number(s): P2215 (200g), P2216 (400g), P2232 (1kg), P2233 (2.5kg)

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

Path and drive 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

1.4 Emergency telephone number

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

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

Chronic Category 2: H400, H411

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP):



Hazard pictogram: GHS09: Environment
Signal words: Warning
Hazard statements: H400: Very toxic to aquatic life
H411: Toxic to aquatic life with long-term effects
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 in a safe way
Supplemental: EUH 401: To avoid risks to human health and the environment, comply with the instructions for use

2.3 Other hazards

Not available

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

Not available

3.2 Mixtures

Name	No.	Classification	% Wt.
Metamitron WG	CAS No: 41394-05-02 EINECS No: 255-349-3	H302 Acute Tox. 4; H400 Aquatic Acute 1	10-20%
Glyphosate WG	CAS No: 40465-66-5 EINECS No: 609-830-3	H411 Aquatic Chronic 2	1-10%

Section 4: First Aid Measures

4.1 Description of First Aid Measures

Eye Contact: If substance has got into the eyes, immediately wash out with plenty of water for at least 10 minutes maintaining eyelids open. Protect unharmed eye. Take care not to wash the chemical from one eye into the other. Obtain medical attention immediately. (Show this Safety Data Sheet)

Skin Contact: Remove contaminated clothing immediately. If skin contamination occurs wash immediately with plenty of clean water for at least 10 minutes. Obtain medical attention immediately. (Show this Safety Data Sheet)

Ingestion: Obtain medical attention immediately. (Show this Safety Data Sheet)

Inhalation: Move to fresh air. Seek medical attention accordingly if breathing is difficult. (Show this Safety Data Sheet)

4.2 Most important symptoms and effects, both acute and delayed

Not available

4.3 Indication of any immediate medical attention and special treatment needed

Not available

Section 5: Firefighting Measures

5.1 Extinguishing media

Extinguish with carbon dioxide, dry chemical, foam or water spray

5.2 Special hazards arising from the substance or mixture

May give off toxic fumes in a fire

5.3 Advice for firefighters

Chemical protection suit, suitable gloves for fire-fighters, boots and self-contained breathing apparatus

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear appropriate protective clothing (see Section 8)

6.2 Environmental precautions

Do not allow product to enter drains or water courses

6.3 Methods and material for containment and cleaning up

Surface water drains within close vicinity of the spill should be covered. Spills should be immediately swept up and placed in labelled containers. Dispose of according to local regulations

6.4 Reference to other sections

Refer to Section 8

Section 7: Handling and Storage

7.1 Precautions for safe handling

When using, do not eat, drink or smoke. Wear suitable protective clothing, gloves and face protection. Wash hands before breaks and at end of work

7.2 Conditions for safe storage, including any incompatibilities

Store in original packaging in a dry, cool and well-ventilated place to which children do not have access. Keep away from food, drink and animal feedstuff

7.3 Specific end use(s)

Not Available

Section 8: Exposure Controls/Personal Protection

8.1 Control Parameters

Metamitron: No data available

Glyphosate: No data available

8.2 Exposure Controls

Engineering Control

The usual precautionary measures for handling chemicals should be observed

Measures:

Hygiene Measures:

When using do not eat, drink or smoke. Shower or bathe at the end of working

Respiratory Protection:

Wear suitable respiratory equipment

Skin and Body:

Wear suitable protective clothing

Hands:

Wear chemical resistant gloves

Eyes:

Wear suitable eye/face protection

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance:

Solid, Granulated

Odour:

Slight Odour

pH:

No data available

Relative Density:

N/A

Melting Point/Range:

Glyphosate: >190°C

Metamitron: No data available

Flash Point:

No data available

Auto Ignition Temp.:

No data available

Flammability:

Not flammable

Explosive Properties:

Not explosive

Oxidising Properties:

No data available

Vapour Pressure:

No data available

Bulk Density:

No data available

Solubility:

Water: Dispersible

Fat/Solvent : N/A

Partition Coefficient:

Glyphosate: ($P = 4.5 \times 10^{-4}$; $\text{Log } P = -3.3$) (n-Octanol/water)

Metamitron: ($\text{Log } P_{ow} 0.71$)

Viscosity:

Not applicable

9.2 Other information

Not Available

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

Avoid contact with other chemicals and strong oxidising agents. Do not mix, store or apply this product or spray solutions of this product in galvanised or unlined steel (except stainless steel) containers or spray tanks

10.6 Hazardous decomposition products

Combustion of the product emits toxic fumes

Section 11: Toxicological Information

11.1 Information on toxicological effects

Metamitron

Acute Toxicity:

- Oral, Rat LD₅₀ (mg/kg): 300 - 2000 female
- Dermal, Rat LD₅₀ (mg/kg): > 2000
- Inhalation, Rat LC50 (mg/l/4h): Not available

Skin Corrosion/Irritation:

Not irritant

Serious Eye Damage/Irritation:

Not irritant

Respiratory or Skin Sensitisation:

Non Sensitizer

Germ Cell Mutagenicity:

Not mutagenic (Metamitron)

Carcinogenicity:

Not carcinogenic (Metamitron)

Reproductive Toxicity:

Not considered to be toxic for the reproductive system (Metamitron)

STOT-single exposure:

Not available

STOT-repeated exposure:

Not available

Aspiration Hazard:

Not available

Glyphosate

Acute Toxicity:

- LD₅₀, Oral, Rat: > 5000mg/kg
- LD₅₀, Dermal, Rat: > 2000mg/kg

Skin Contact:

There may be mild irritation at the site of contact

Eye Contact:

There may be irritation and redness

Ingestion:

There may be irritation of the throat. Nausea and stomach pain may occur

Inhalation:

There may be irritation of the throat, with a feeling of tightness in the chest

Section 12: Ecological Information

Metamitron

12.1 Toxicity

Acute Toxicity:

- 96 H-LC ₅₀ - Carp (mg/l):	52.1
- 48 H-EC ₅₀ - Daphnia magna (mg/l):	> 100
- 72 H-EC ₅₀ - Algae (mg/l):	2.90 (growth rate)
- Bees LD ₅₀ (µg):	Not toxic to bees (Metamitron)
- LD ₅₀ Birds (mg/kg):	Japanese quail 1302-1358 (Metamitron)
Long-term exposure:	No data available

12.2 Persistence & Degradability

(Metamitron: Soil) Half-life time (t_{1/2}) : 2-45 days

12.3 Bioaccumulative Potential

No data available

12.4 Mobility in Soil

(Metamitron) Low mobility

12.5 Results of PBT and vPvB Assessment

Not Available

12.6 Other Adverse Effects

None known

Glyphosate

12.1 Toxicity

Ecotoxicity Values:

- 96 H-LC ₅₀ - Rainbow Trout (<i>Oncorhynchus mykiss</i>) (mg/l):	> 100
- 48 H-EC ₅₀ - Daphnids (<i>Daphnia magna</i>) (mg/l):	> 100
- 72 H-EC ₅₀ - Algae (<i>Desmodesmus subspicatus</i>) (mg/l):	91.6
- 72 H-EC ₅₀ - Duckweed (<i>Lemna gibba</i>) (mg/l):	28
- 14d LD ₅₀ -Earthworms (<i>Eisenia fetida</i>) (mg/kg.dry soil):	> 1000
- 48 H-LD ₅₀ Honeybees (<i>Apis mellifera</i>) (µg/bee):	> 100 (oral)

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 100mg/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

12.3 Bioaccumulative Potential

Glyphosate: log K_{ow} = -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 a PBT substance

12.6 Other Adverse Effects

No data available

Section 13: Disposal Considerations**13.1 Waste treatment methods**

Product Disposal: Dispose of according to local and national regulations

Container Disposal: Dispose of according to local and national regulations

Section 14: Transport Information**14.1 UN number**

3082

14.2 UN Proper shipping Name

Environmentally Hazardous Substance, Liquid, N.O.S. (Metamitron)

14.3 Transport Hazard Class(es)

Class 9: Miscellaneous dangerous substance and articles

14.4 Packing Group

III

14.5 Environmental Hazards

Environmentally Hazardous Substance/Marine Pollutant

14.6 Special Precautions for User

EMS F-A, S-F

Emergency Action Code •3Z

Hazard No. (ADR) 90

Tunnel Restriction Code (E)

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

Not applicable

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

No data available

15.2 Chemical safety assessment

No data available

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

H302 Harmful if swallowed

H400 Very toxic to aquatic life

H411 Toxic to aquatic life with long lasting effects

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.