SAFETY DATA SHEET
GOLTIX UNO® HERBICIDE

Section 1: Identification of the Substance and Supplier

Product name: GOLTIX UNO SC HERBICIDE
Chemical name: 4-amino-3-methyl-6-phenyl-1,2,4-triazin-5-one

Supplier: ADAMA NEW ZEALAND LIMITED
Level 1/19 Elms Street, Wakatu Estate, Stoke, Nelson, New Zealand
P.O. Box 1799, Nelson New Zealand.
Telephone +64 3 543 8275 Fax: +64 3 543 8274
Emergency Telephone: 0800 POISON (0800 764 766)

Section 2: Hazards Identification

Hazard Classifications: 6.1C, 6.9B, 9.1B, 9.2A, 9.3C
Most important hazards: TOXICITY

Warning –
May be fatal if swallowed, inhaled or absorbed through the skin.
Presumed to/may cause organ damage from repeated oral exposure at high doses.
Avoid skin and eye contact and inhalation of vapour and spray mist.

ECOTOXICITY Toxic to aquatic life with long lasting effects. Harmful to terrestrial vertebrates. Avoid contamination of any water supply with product or empty container.

Section 3: Composition/information on Ingredients

Information on hazardous ingredients *

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No.</th>
<th>%</th>
<th>EINECS,</th>
</tr>
</thead>
<tbody>
<tr>
<td>350g/L Metamitron</td>
<td>41394-05-2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>150g/L Ethofumesate</td>
<td>26225-79-6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4-amino-3-methyl-6-phenyl-1,2,4-triazin-5-one</td>
<td></td>
<td>30.7</td>
<td>255-349-3</td>
</tr>
<tr>
<td>Ethofumesate (ISO)</td>
<td></td>
<td>13.2</td>
<td>247-525-3</td>
</tr>
<tr>
<td>Propane-1,2-diol</td>
<td></td>
<td>1 – 5</td>
<td>200-338-0</td>
</tr>
<tr>
<td>Organic phosphoric ester</td>
<td></td>
<td>1&lt;5</td>
<td></td>
</tr>
</tbody>
</table>

For complete wording of the R-Phrases, refer to point 16.

Section 4: First-Aid Measures

Inhaled: Remove person from danger area.
Eye: Wash thoroughly for several minutes using copious water. Seek medical help if necessary.
Swallowed: Give copious water to drink – consult doctor immediately. Keep Data Sheet available.
Skin: Wash thoroughly using copious water- remove contaminated clothing immediately. If skin irritation occurs (redness etc..) consult doctor.

Section 5: Fire-Fighting Measures

Extinguishing Media and methods: SMALL FIRE: Use DRY chemical powder.
LARGE FIRE: Use water spray, fog or foam.
Do not use water jet.

Recommended Protective Clothing: Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Hazchem code: 2X

Hazardous thermal (de)composition products Carbon oxides (CO, CO2) sulphur oxides (SO2, SO3...).
Section 6: Accidental Release Measures

Personal Precautions: Ensure suitable personal protection during removal of spillages. This means wearing eye protection, chemically resistant gloves, boots and overalls. Ensure sufficient supply of air. Avoid inhalation and contact with eyes or skin.

Environmental Precautions: Washings must be prevented from entering surface water drains or waterways. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities...

Procedure for Spill:
1. Keep all bystanders away.
2. Wear full length clothing and PVC gloves.
3. Reposition any leaking containers so as to minimise further leakage.
4. Dam and absorb spill with an absorbent material (e.g. sand, soil, diatomaceous earth or vermiculite).
5. Shovel the absorbed spill into drums.
6. Decontaminate the spill area with detergent and water and rinse with the smallest volume of water practicable.

Procedure for Disposal: Disposal of the absorbed material will depend upon the extent of the spill. Contaminated material must be disposed of in accordance with all local authority requirements.
- For quantities up to 50 L of product bury in a secure approved landfill site.
- For quantities greater than 50 L seek advice from the manufacturer (use emergency contact number below) before attempting disposal. Contain in a secure location until disposal method is established.

Section 7: Handling and Storage

Handling: Keep out of reach of children. Do not eat, drink or smoke while using. Ensure good ventilation. When mixing or applying wear appropriate protective clothing including cotton overalls buttoned to the neck and wrist, impervious, elbow-length gloves, and eye protection. Remove protective clothing and wash hands, arms and face with soap and water before meals and after work.

Storage: Only store at temperatures from -5ºC to 35ºC Effects with light as well as warmth. Store in the original, unopened container in a cool, dry place, out of direct sunlight and away from stockfeed or foodstuffs. As a Class 9 Substance with Ecotoxicity Classifications, storage of GOLTIX UNO Herbicide must be carried out in such a manner as to prevent contamination of waterways. It is recommended that The New Zealand Standard for the Management of Agrichemicals (NZS 8409:2004) is followed as a means of meeting the secondary containment provisions of the HSNO Emergency Management Regulations.

Section 8: Exposure Controls/Personal Protection

Industrial Hygiene: In workplace ensure good ventilation. This can be achieved by local suction or general air extraction. If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here. Keep containers closed when not in use. Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower. Wash hands thoroughly after handling. Wash clothing before re-using.

Hygiene measures: When handling do not eat, drink or smoke. Wash hands thoroughly after handling. Wash clothing separately before re-use.

WEL-TWA: Propane-1, 2-diol 150 ppm (474 mg/m³) (total, vapor and particulates), 10 mg/m³ (particulates)

Personal protective equipment:
Respiratory system: If fumes build up, use suitable breathing mask
Skin and body: When mixing or applying wear appropriate protective clothing including cotton overalls buttoned to the neck and wrist, impervious, elbow-length gloves, and eye protection.
SAFETY DATA SHEET
GOLTIX UNO® HERBICIDE

Remove protective clothing and wash hands, arms and face with soap and water before meals and after work.

Eyes:
Safety goggles or face shield.

Section 9: Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid, viscous</td>
</tr>
<tr>
<td>Colour</td>
<td>White, Beige</td>
</tr>
<tr>
<td>Odour</td>
<td>slightly</td>
</tr>
<tr>
<td>1 % pH value</td>
<td>6.42 (CIPAC MT 75)</td>
</tr>
<tr>
<td>Boiling point</td>
<td>n.v.</td>
</tr>
<tr>
<td>Melting Point</td>
<td>n.v.</td>
</tr>
<tr>
<td>Density (g/ml)</td>
<td>1.14 (20°C)</td>
</tr>
<tr>
<td>Flash Point (°C)</td>
<td>&gt; 104 (DIN EN 227 19)</td>
</tr>
<tr>
<td>Flammability (solid/gas)</td>
<td>n.g.</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No</td>
</tr>
<tr>
<td>Minimum limit of explosion</td>
<td>n.a.</td>
</tr>
<tr>
<td>Maximum limit of explosion</td>
<td>n.a.</td>
</tr>
<tr>
<td>Density (g/ml)</td>
<td>1.14 (20°C)</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>Dispersion</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>log Pow 0.85 (21°C)*, log Pow 2.69 ** (OECD 107)</td>
</tr>
<tr>
<td>Vapour density (air=1)</td>
<td>2.3 - 6 hPa (20°C)</td>
</tr>
<tr>
<td>Auto Flammability</td>
<td>485°C (EEC A14, DIN 51794)</td>
</tr>
<tr>
<td>Viscosity</td>
<td>134.1 mPas/20°C, 116.9 mm2/s20°C (OECD 114)</td>
</tr>
<tr>
<td>Surface tension</td>
<td>39.3 mN/m (90%, 20°C) (EEC A5)</td>
</tr>
</tbody>
</table>

** Ethofumesate (ISO)
* Metamitron

Section 10: Stability and Reactivity

Stability of the substance: Stable under standard conditions, when handled and stored correctly
Conditions to avoid: Protect from frost
Materials to avoid: Avoid contact with other chemicals.
Avoid contact with strong oxidizing agents,

Hazardous Decomposition Products: Oxides of carbon, oxides of nitrogen & oxides of sulphur

Section 11: Toxicological Information

<table>
<thead>
<tr>
<th>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rat Oral LD₅₀ [mg/kg]</td>
<td>&gt;2000 (OECD 401)</td>
</tr>
<tr>
<td>Rat dermal LD₅₀ [mg/kg]</td>
<td>&gt;4000 (OECD 402)</td>
</tr>
<tr>
<td>Rat inhalation LC₅₀ mg/l/4h</td>
<td>n.v.</td>
</tr>
<tr>
<td>Dermal irritation (rat)</td>
<td>Not irritant (OECD 404)</td>
</tr>
<tr>
<td>Eye irritation (rat)</td>
<td>Mild irritant (OECD 405)</td>
</tr>
<tr>
<td>Sensitization</td>
<td>Non Sensitizer (OECD 406)</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Non carcinogenic</td>
</tr>
<tr>
<td>Mutagenicity</td>
<td>Not mutagenic</td>
</tr>
<tr>
<td>Reproduction toxicity</td>
<td>NOAL 50 ppm*, Rat</td>
</tr>
<tr>
<td>Narcosis</td>
<td>n.g.</td>
</tr>
<tr>
<td>** &lt;= 1000 mg/kg No indications of such an effect.</td>
<td></td>
</tr>
<tr>
<td>** Ethofumesate (ISO)</td>
<td></td>
</tr>
<tr>
<td>* Metamitron</td>
<td></td>
</tr>
</tbody>
</table>

Section 12: Ecological Information

Water hazard class (Germany): 3
Self-classification: Yes (VwVwS)
Persistence and degradability: Not readily biodegradable*
Behaviour in sewage plants: EC50 = 2188 mg/l
Aquatic toxicity: n.v.
Section 13: Disposal Considerations

Container Disposal: Ensure container is empty. Triple rinse empty container and add rinsate to spray tank. Recycle empty container through Agrecovery (0800 247 326, www.agrecovery.co.nz). Otherwise crush or puncture and bury in a suitable landfill. DO NOT reuse this container for any other purpose.

Product disposal: Dispose of this product only by using according to the label, or at an approved landfill or other approved facility.

Section 14: Transport Information

UN Number 3082
Proper shipping name Environmentally hazardous substance, Liquid, N.O.S, (METAMITRON & ETHOFUMESATE)
DG Class 9
Packing Group III
Hazchem Code 2X
Marine Pollutant YES
IER Guide page 47
National transport regulations: Do not carry this product on a passenger service vehicle.

Segregation: Check the land transport Rule Dangerous Goods 1999, Rule 45001 for additional information. Sea transport may require additional segregation. Refer: NZS5433; Sea Segregation, or the International Maritime Dangerous Goods Code for details.

Section 15: Regulatory Information

New Zealand Regulatory Information:

NZFSA Approval: Registered pursuant to the ACVM Act 1997, No. P8475
See www.nzfsa.govt.nz/acvm for registration conditions
Approved pursuant to the HSNO Act 1996, Approval No. HSR100598
See www.ermanz.govt.nz for approval controls

HSNO Classifications: Classifications 6.1C, 6.9B, 9.1B, 9.2A, 9.3C

APPROVED HANDLER: This product must be under the control of an approved handler during use.
TRACKING: This product must be tracked – see current version of NZS8409 Management of Agrichemicals.
RECORD KEEPING: Records of use must be kept as described in NZS8409 Management of Agrichemicals.
Section 16: Other Information

Note: This product is a registered agricultural chemical and must be therefore be used in accordance with the container label directions. A comprehensive package of toxicological and environmental data for the active ingredients of this product has been submitted to the Government health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.

The information contained in the Safety Data sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as a warranty or as a specification. The information relates only to the product specified and may not be suitable for combinations with other materials or in processes other than those specifically described herein.

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History:
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