SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier

<table>
<thead>
<tr>
<th>Product name</th>
<th>Ausmectin Sheep Drench Broad Spectrum Oral Antiparasitic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other means of identification</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Relevant identified uses</th>
<th>For the treatment and control of ivermectin-sensitive strains of internal roundworms, (including benzimidazole, levamisole and morantel-resistant strains) nasal bot and itchmite in sheep. Oral drench for sheep. Dose as per directions on label.</th>
</tr>
</thead>
</table>

Details of the supplier of the safety data sheet

<table>
<thead>
<tr>
<th>Registered company name</th>
<th>International Animal Health Products Pty Ltd</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>18 Healey Circuit Huntingwood NSW 2148 Australia</td>
</tr>
<tr>
<td>Telephone</td>
<td>+61 2 9672 7944</td>
</tr>
<tr>
<td>Fax</td>
<td>+61 2 9672 7988</td>
</tr>
<tr>
<td>Website</td>
<td><a href="http://www.iahp.com.au">www.iahp.com.au</a></td>
</tr>
<tr>
<td>Email</td>
<td><a href="mailto:info@iahp.com.au">info@iahp.com.au</a></td>
</tr>
</tbody>
</table>

Emergency telephone number

<table>
<thead>
<tr>
<th>Association / Organisation</th>
<th>Not Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergency telephone numbers</td>
<td>+61 2 9672 7944</td>
</tr>
<tr>
<td>Other emergency telephone numbers</td>
<td>131 126 (Poisons Info. Centre Australia)</td>
</tr>
</tbody>
</table>

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

<table>
<thead>
<tr>
<th>Poisons Schedule</th>
<th>55</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classification</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

Label elements

<table>
<thead>
<tr>
<th>GHS label elements</th>
<th>Not Applicable</th>
</tr>
</thead>
</table>
Hazard statement(s)  
Not Applicable

Supplementary statement(s)  
Not Applicable

Precautionary statement(s) Prevention  
Not Applicable

Precautionary statement(s) Response  
Not Applicable

Precautionary statement(s) Storage  
Not Applicable

Precautionary statement(s) Disposal  
Not Applicable

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances  
See section below for composition of Mixtures

Mixtures

<table>
<thead>
<tr>
<th>CAS No</th>
<th>% [weight]</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Available</td>
<td>100</td>
<td>Ingredients determined not to be hazardous</td>
</tr>
</tbody>
</table>

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye Contact  
If this product comes in contact with eyes:  
- Wash out immediately with water.  
- If irritation continues, seek medical attention.  
- Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Skin Contact  
If skin or hair contact occurs:  
- Flush skin and hair with running water (and soap if available).  
- Seek medical attention in event of irritation.

Inhalation  
- If fumes, aerosols or combustion products are inhaled remove from contaminated area.  
- Other measures are usually unnecessary.

Ingestion  
- Immediately give a glass of water.  
- First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

Special hazards arising from the substrate or mixture

| Fire Incompatibility | None known. |

Advice for firefighters

| Fire Fighting | Alert Fire Brigade and tell them location and nature of hazard.  
- Wear breathing apparatus plus protective gloves in the event of a fire.  
- Prevent, by any means available, spillage from entering drains or water courses.  
- Use fire fighting procedures suitable for surrounding area.

Fire/Explosion Hazard  
- Non combustible.  
- Not considered a significant fire risk, however containers may burn.

Continued...
SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
See section 8

Environmental precautions
See section 12

Methods and material for containment and cleaning up

<table>
<thead>
<tr>
<th>Minor Spills</th>
<th>Major Spills</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clean up all spills immediately.</td>
<td>Minor hazard.</td>
</tr>
<tr>
<td>Avoid breathing vapours and contact with skin and eyes.</td>
<td>Clear area of personnel.</td>
</tr>
<tr>
<td>Control personal contact with the substance, by using protective equipment.</td>
<td>Alert Fire Brigade and tell them location and nature of hazard.</td>
</tr>
<tr>
<td>Contain and absorb spill with sand, earth, inert material or vermiculite.</td>
<td>Control personal contact with the substance, by using protective equipment as required.</td>
</tr>
</tbody>
</table>

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

<table>
<thead>
<tr>
<th>Safe handling</th>
</tr>
</thead>
</table>

- Limit all unnecessary personal contact.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- Avoid contact with incompatible materials.

| Other information |

- Store in original containers.
- Keep containers securely sealed.
- Store in a cool, dry, well-ventilated area.
- Store away from incompatible materials and foodstuff containers.

Conditions for safe storage, including any incompatibilities

<table>
<thead>
<tr>
<th>Suitable container</th>
</tr>
</thead>
</table>

- Check that containers are clearly labelled and free from leaks
- Packaging as recommended by manufacturer.

| 1L, 2.5L, 5L plastic backpacks. | 10L and 20L plastic cubes. |

Storage incompatibility

- Avoid contamination of water, foodstuffs, feed or seed.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

| OCCUPATIONAL EXPOSURE LIMITS (OEL) |

Not Available

| INGREDIENT DATA |

Not Available

| EMERGENCY LIMITS |

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Material name</th>
<th>TEEL-1</th>
<th>TEEL-2</th>
<th>TEEL-3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ausmectin Sheep Drench Broad Spectrum Oral Antiparasitic</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Original IDLH</th>
<th>Revised IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingredients determined not to be hazardous</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

Exposure controls

- None required when handling small quantities.
- OTHERWISE:
Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

The basic types of engineering controls are:

- Process controls which involve changing the way a job activity or process is done to reduce the risk.
- Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

### Personal protection

No special equipment for minor exposure i.e. when handling small quantities.

**OTHERWISE:**
- Safety glasses with side shields.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

### Skin protection

See Hand protection below

### Hands/feet protection

No special equipment needed when handling small quantities.

**OTHERWISE:** Wear chemical protective gloves, e.g. PVC.

### Body protection

See Other protection below

### Other protection

No special equipment needed when handling small quantities.

**OTHERWISE:**
- Overalls.
- Barrier cream.
- Eyewash unit.

### Thermal hazards

Not Available

### Recommended material(s)

**GLOVE SELECTION INDEX**

Glove selection is based on a modified presentation of the: "Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the computer-generated selection:

Ausmectin Sheep Drench Broad Spectrum Oral Antiparasitic

<table>
<thead>
<tr>
<th>Material</th>
<th>CPI</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUTYL</td>
<td>C</td>
</tr>
<tr>
<td>NATURAL RUBBER</td>
<td>C</td>
</tr>
<tr>
<td>NEOPRENE</td>
<td>C</td>
</tr>
<tr>
<td>PVA</td>
<td>C</td>
</tr>
<tr>
<td>VITON</td>
<td>C</td>
</tr>
</tbody>
</table>

* CPI - Chemwatch Performance Index
A: Best Selection
B: Satisfactory; may degrade after 4 hours continuous immersion
C: Poor to Dangerous Choice for other than short term immersion

**NOTE:** As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation.

* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Clear to slightly opaque liquid with a characteristic odour; mixes with water.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Physical state</th>
<th>Liquid</th>
<th>Relative density (Water = 1)</th>
<th>1.01-1.03</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odour</td>
<td>Not Available</td>
<td>Partition coefficient n-octanol / water</td>
<td>Not Available</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not Available</td>
<td>Auto-ignition temperature (°C)</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>pH (as supplied)</td>
<td>Not Available</td>
<td>Decomposition temperature</td>
<td>Not Available</td>
</tr>
</tbody>
</table>
Melting point / freezing point (°C) | Not Available
---|---
Initial boiling point and boiling range (°C) | Not Available
Flash point (°C) | Not Applicable
Evaporation rate | Not Available
Flammability | Not Applicable
Upper Explosive Limit (% | Not Applicable
Lower Explosive Limit (% | Not Applicable
Vapour pressure (kPa) | Not Available
Solubility in water (g/L) | Not Available
Vapour density (Air = 1 | Not Available
Viscosity (cSt) | Not Available
Molecular weight (g/mol) | Not Applicable
Taste | Not Available
Explosive properties | Not Available
Oxidising properties | Not Available
Surface Tension (dyn/cm or mN/m) | Not Available
Volatile Component (%vol) | Not Available
pH as a solution (1%) | Not Available
VOC g/L | Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity | See section 7
Chemical stability | Product is considered stable and hazardous polymerisation will not occur.
Possibility of hazardous reactions | See section 7
Conditions to avoid | See section 7
Incompatible materials | See section 7
Hazardous decomposition products | See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Inhaled | The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.

Not normally a hazard due to non-volatile nature of product

Ingestion | The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.

Skin Contact | The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.

Eye | Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).

Chronic | Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.

Ausmectin Sheep Drench Broad Spectrum Oral Antiparasitic

<table>
<thead>
<tr>
<th>TOXICITY</th>
<th>IRRITATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Available</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

Legend: 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. * Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

Acute Toxicity | Carcinogenicity
---|---
Skin Irritation/Corrosion | Reproductivity
Serious Eye Damage/Irritation | STOT - Single Exposure
SECTION 12 ECOLOGICAL INFORMATION

Toxicity

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Endpoint</th>
<th>Test Duration (hr)</th>
<th>Species</th>
<th>Value</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

Legend:

- Data available but does not fill the criteria for classification
- Data required to make classification available
- Data Not Available to make classification

Persistence and degradability

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Persistence: Water/Soil</th>
<th>Persistence: Air</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Data available for all ingredients</td>
<td>No Data available for all ingredients</td>
<td></td>
</tr>
</tbody>
</table>

Bioaccumulative potential

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Bioaccumulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Data available for all ingredients</td>
<td></td>
</tr>
</tbody>
</table>

Mobility in soil

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Mobility</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Data available for all ingredients</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Legislation addressing waste disposal requirements may differ by country, state and/or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. A Hierarchy of Controls seems to be common - the user should investigate:

- Reduction
- Reuse
- Recycling
- Disposal (if all else fails)

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.

- DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Where in doubt contact the responsible authority.
- Recycle wherever possible.
- Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
- Dispose of by: burial in a landfill specifically licenced to accept chemical and/or pharmaceutical wastes or incineration in a licenced apparatus (after admixture with suitable combustible material).
- Decontaminate empty containers.

SECTION 14 TRANSPORT INFORMATION

Labels Required

<table>
<thead>
<tr>
<th>Marine Pollutant</th>
<th>HAZCHEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture

<table>
<thead>
<tr>
<th>National Inventory</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia - AICS</td>
<td>Y</td>
</tr>
<tr>
<td>Canada - DSL</td>
<td>Y</td>
</tr>
<tr>
<td>Canada - NDSL</td>
<td>Y</td>
</tr>
<tr>
<td>China - IECSC</td>
<td>Y</td>
</tr>
<tr>
<td>Europe - EINEC / ELINCS / NLP</td>
<td>Y</td>
</tr>
<tr>
<td>Japan - ENCS</td>
<td>Y</td>
</tr>
<tr>
<td>Korea - KECI</td>
<td>Y</td>
</tr>
<tr>
<td>New Zealand - NZIoC</td>
<td>Y</td>
</tr>
<tr>
<td>Philippines - PICCS</td>
<td>Y</td>
</tr>
<tr>
<td>USA - TSCA</td>
<td>Y</td>
</tr>
</tbody>
</table>

Legend:

Y = All ingredients are on the inventory
N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing (see specific ingredients in brackets)

SECTION 16 OTHER INFORMATION

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at:

www.chemwatch.net

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Definitions and abbreviations

PC — TWA: Permissible Concentration-Time Weighted Average
PC — STEL: Permissible Concentration-Short Term Exposure Limit
IARC: International Agency for Research on Cancer
ACGIH: American Conference of Governmental Industrial Hygienists
STEL: Short Term Exposure Limit
TEEL: Temporary Emergency Exposure Limit,
IDLH: Immediately Dangerous to Life or Health Concentrations
OSF: Odour Safety Factor
NOAEL: No Observed Adverse Effect Level
LOAEL: Lowest Observed Adverse Effect Level
TLV: Threshold Limit Value
LOD: Limit Of Detection
OTV: Odour Threshold Value
BCF: BioConcentration Factors
BEI: Biological Exposure Index

end of SDS