## SECTION 1 – IDENTIFICATION, CONTACTS

<table>
<thead>
<tr>
<th>Bayer Australia Ltd</th>
<th>Emergency Telephone Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>875 Pacific Highway</td>
<td>1800 033 111</td>
</tr>
<tr>
<td>Pymble NSW 2073</td>
<td>24 hour Emergency Service Australia Wide, Toll Free</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Contact Point (for non-emergency calls)</strong></td>
</tr>
<tr>
<td></td>
<td>Animal Health Division</td>
</tr>
<tr>
<td></td>
<td>(02) 9391 6000</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Full Product Name</th>
<th>HIDEJECT VITAMIN A, D3 AND E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other Names</td>
<td>n/a</td>
</tr>
<tr>
<td>Product Use</td>
<td>As an aid in the prevention of milk fever and to increase the animal's resistance to infection at parturition in cows, ewes, and sows.</td>
</tr>
<tr>
<td>Creation Date</td>
<td>1st February 2013</td>
</tr>
<tr>
<td>Revision Date</td>
<td>8 December 2016</td>
</tr>
</tbody>
</table>
## SECTION 2 – HAZARD IDENTIFICATION

<table>
<thead>
<tr>
<th>Hazard Classification</th>
<th>HAZARDOUS SUBSTANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHS-Classification</td>
<td>Acute toxicity – Inhalation, Category 3</td>
</tr>
<tr>
<td></td>
<td>Specific target organ toxicity (repeated exposure), Category 1</td>
</tr>
</tbody>
</table>

| Signal Word | Danger |

| Hazard Statements | H331 Toxic if inhaled  
|                  | H335 Causes damage to organs through prolonged or repeated exposure if swallowed. |

| Precautionary statements | Prevention: P261 Avoid breathing vapours/spray. Wash hands thoroughly after handling. 270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.  
|                          | Response: P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P312 Call a POISON CENTER or doctor/physician if you feel unwell. P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. P330 Rinse mouth.  
|                          | Storage: P405 Store locked up.  
|                          | Disposal: P501 Dispose of contents/container in accordance with local regulations. |

## SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

| Hazardous Components | Retinol palmitate  
|                     | Concentration [Weight percent] < 2  
|                     | CAS-No.: 79-81-2  
|                     | GHS Classification: Reproductive toxicity (Category 1B)  

|                      | Cholecalciferol  
|                      | Concentration [Weight percent] < 2  
|                      | CAS-No.: 67-97-0  
|                      | GHS Classification:  
|                      | Acute toxicity, Oral (Category 3)  
|                      | Acute toxicity, Inhalation (Category 2)  
|                      | Acute toxicity, Dermal (Category 3)  
|                      | Specific target organ toxicity - repeated exposure, Oral (Category 1) |
### SECTION 4 – FIRST AID MEASURES

<table>
<thead>
<tr>
<th>Label Regulated First Aid Statement</th>
<th>If poisoning occurs contact a doctor or the Poisons Information Centre. Phone Australia 13 11 26.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scheduled Poisons</td>
<td>This product is not scheduled.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Move affected person to fresh air and keep at rest until recovered and seek medical attention.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>If sprayed on skin, wash thoroughly. If sprayed in mouth rinse mouth immediately with water. Seek medical attention in event of irritation.</td>
</tr>
<tr>
<td>Eye contact</td>
<td>If in eyes, hold eyes open, flood with water for at least 15 minutes and seek medical advice.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>If swallowed, do not induce vomiting. Give a glass of water. Seek medical attention.</td>
</tr>
<tr>
<td>Advice to doctor</td>
<td>Place patients with vitamin D toxicity on a low-calcium diet. Consider oral calcium disodium edetate to increase faecal excretion of calcium. In cases of severe hypercalcemia, patients may require hydration, diuretics, steroids or calcitonin.</td>
</tr>
</tbody>
</table>

### SECTION 5 – FIRE FIGHTING MEASURES

<table>
<thead>
<tr>
<th>Flammability</th>
<th>Combustible.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extinguishing Media</td>
<td>Foam, dry chemical powder, BCF (where permitted), carbon dioxide, water spray or fog.</td>
</tr>
<tr>
<td>Fire and Explosion Hazards</td>
<td>Slight fire hazard when exposed to heat or flame. Heating may cause expansion or decomposition leading to violent rupture of containers. Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result.</td>
</tr>
<tr>
<td>Hazardous Combustion Products</td>
<td>On combustion, may emit toxic fumes of carbon monoxide and acrid smoke. Combustion products include carbon dioxide (CO₂), other pyrolysis products typical of burning organic material.</td>
</tr>
<tr>
<td>Fire Fighting</td>
<td>Wear self-contained breathing apparatus and protective gloves. In well ventilated areas wear full face mask with a combination filter. (Offers no protection from carbon monoxide). In enclosed premises: respirator with independent air supply DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from protected location. If safe, remove containers from path of the fire.</td>
</tr>
</tbody>
</table>
**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Method of Containment and Clean up Procedures: In the event of a major spill, prevent the spillage from entering drains or waterways. No smoking or ignition sources. Increase ventilation. Wear breathing apparatus and protective gloves. Stop leak if safe to do so. Contain the spill using sand, soil or vermiculite. Collect and seal in properly labelled drums for disposal. After a spill, wash the area, preventing the run-off entering the drain.</td>
</tr>
</tbody>
</table>

**SECTION 7 – HANDLING AND STORAGE**

<table>
<thead>
<tr>
<th>Safe Handling</th>
<th>Avoid eye and skin contact. Avoid inhalation of fumes. Wear protective clothing to minimize eye and skin contact, when there is risk of exposure. Use in a well-ventilated area. Do not smoke, eat or drink while handling or using the product. Observe good personal hygiene by washing hands before and after use.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage</td>
<td>Store below 25°C (Air conditioning) in the closed, original container, in a dry, well-ventilated area. Protect from sunlight. Containers should always be kept closed in storage and stored in original labeled container. Keep out of reach of children.</td>
</tr>
</tbody>
</table>

**SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION**

<table>
<thead>
<tr>
<th>Exposure Limits</th>
<th>Exposure limits have not been established by NOHSC for this formulation.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ventilation</td>
<td>Natural ventilation should be adequate under normal use conditions. If the air concentration of vapour or mist is high, the process should be modified to reduce the problem. Keep containers closed when not in use.</td>
</tr>
<tr>
<td>Eye Protection</td>
<td>Avoid contact with eyes. Wear protective eyewear. After each day’s use, wash goggles.</td>
</tr>
<tr>
<td>Skin Protection</td>
<td>Avoid contact with skin. No skin protection is required under normal conditions of use. Under other conditions of use wear rubber gloves. Wash hands before breaks and at end of work</td>
</tr>
<tr>
<td>Respirator</td>
<td>Do not inhale vapour. No respirator is required under normal conditions of use.</td>
</tr>
</tbody>
</table>

**SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>Clear golden/yellow coloured liquid</td>
</tr>
<tr>
<td>pH</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility</td>
<td>Not available</td>
</tr>
</tbody>
</table>
### SECTION 10 – STABILITY & REACTIVITY

<table>
<thead>
<tr>
<th>Chemical Stability</th>
<th>Stable under normal ambient and anticipated storage conditions of temperature and pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conditions to Avoid</td>
<td>Keep away from extreme heat and open flames.</td>
</tr>
<tr>
<td>Incompatible Materials</td>
<td>No particular incompatibilities</td>
</tr>
<tr>
<td>Hazardous Decomposition</td>
<td>Fire decomposition products from this product may form toxic fumes in confined spaces.</td>
</tr>
<tr>
<td>Hazardous Reactions</td>
<td>This product will not spontaneously polymerise.</td>
</tr>
</tbody>
</table>

### SECTION 11 – TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Reproductive Effects</th>
<th>Retinol palmitate: Exposure to the material for prolonged periods may cause physical defects in the developing embryo (teratogenesis). Cholecalciferol: fetotoxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mutagenicity</td>
<td>None of the ingredients of the formulation have been shown to produce mutagenic effects.</td>
</tr>
<tr>
<td>Carcinogenic Effects</td>
<td>None of the ingredients of the formulation have been shown to produce carcinogenic effects.</td>
</tr>
</tbody>
</table>
| Health Hazard Information | **ACUTE**  
No adverse health effects are expected, if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms that may arise if the product is mishandled are:  
**Ingestion:** Harmful: danger of serious damage to health by prolonged exposure if swallowed.  
**Eye:** May be an eye irritant.  
**Skin:** Contact with skin may result in irritation.  
**Inhalation:** Toxic by inhalation.  
**CHRONIC**  
Ingestion - Causes damage to organs through prolonged or repeated exposure in the case of excessive overdose.  
**Retinol palmitate**  
Oral (rat) LD50: >2000 mg/kg  
Skin (rabbit): irritating  
Eye (rabbit): non-irritating  
**Cholecalciferol**  
Oral (rat) LD50: 42 mg/kg  
Oral (mouse) LD50: 42.5 mg/kg  
Intraperitoneal (mouse) LD50: 136 mg/kg  
Oral (dog) LD50: 80 mg/kg  
**Dl-alpha-tocopherol acetate**  
Oral (mouse) LD50: >49700 mg/kg  
Eye (rabbit): non-irritating  
Skin (rabbit): non-irritating |
SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity

Retinol Palmitate
Daphnia magna: LC0 (48hrs): 15mg/L. LC50 (48hrs): 35.34 mg/L.
LC100 (48hrs):125mg/L

Cholecalciferol
No data available

DL-Alpha-Tocopherol
No data available

SECTION 13 – DISPOSAL INFORMATION

After Intended Use | Dispose of empty container by wrapping with paper and placing in garbage.
After spill or accident | Dispose of sealed containers at an approved local waste disposal site.

SECTION 14 – TRANSPORT INFORMATION

| UN No | Not classified |
| UN Proper Shipping Name | Not classified |
| Class & Subsidiary Risk | Not classified |
| Packaging Group | Not classified |
| Hazchem Code | Not classified |

SECTION 15 – REGULATORY INFORMATION

| Poisons Schedule | Not scheduled |
| APVMA Registration | The product is registered by the APVMA. |
| Registration Number | 35995 |
| Labelling | All necessary directions, precautions and warnings for normal use of the product are included on the product label. |
# SECTION 16 – OTHER INFORMATION

<table>
<thead>
<tr>
<th>Summary of Changes</th>
<th>GHS Update</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acronyms</td>
<td>ADG Code Australian Code for the Transport of Dangerous Goods by Road and Rail</td>
</tr>
<tr>
<td></td>
<td>APVMA Australian Pesticides and Veterinary Medicines Authority</td>
</tr>
<tr>
<td></td>
<td>CAS Chemical Abstracts Service Registry Number</td>
</tr>
<tr>
<td></td>
<td>GHS Globally Harmonized System of Classification and Labelling of Chemicals</td>
</tr>
<tr>
<td></td>
<td>HDPE High density polyethylene</td>
</tr>
<tr>
<td></td>
<td>LDPE Low density polyethylene</td>
</tr>
<tr>
<td></td>
<td>OECD Organisation for Economic Co-operation and Development</td>
</tr>
<tr>
<td></td>
<td>STOT Specific Target Organ Toxicity</td>
</tr>
<tr>
<td></td>
<td>SUSDP Standard for the Uniform Scheduling of Drugs and Poisons</td>
</tr>
<tr>
<td></td>
<td>TWA Time Weighted Average – average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day working week.</td>
</tr>
<tr>
<td><strong>UN Number</strong></td>
<td>United Nations number</td>
</tr>
</tbody>
</table>

**Disclaimer**

This Safety Data Sheet has been developed according to the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Third revised edition. United Nations, 2009. The data, information and recommendations herein ("information") are represented in good faith and believed to be correct as of the date hereof. The purpose of this Safety Data Sheet is to describe product in terms of their safety requirements. Bayer Australia Limited makes no representation of merchantability, fitness for a particular purpose or application, or of any other nature with respect to the information or the product to which the information refers ("the product"). The information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use of the product. The physical data shown herein are typical values based on material tested. These values should not be construed as a guaranteed analysis of any specific lot or as guaranteed specification for the product or specific lots thereof. Due care should be taken to make sure that the use or disposal of this product and / or its packaging is in compliance with relevant Federal, State and Local Government regulations.

**END OF SDS**