



1. IDENTIFICATION OF SUBSTANCE & COMPANY

Product information

Product name Hideject
Other names NA
ACVM approval A005908
HSNO approval HSR002521
Approval description Animal Nutritional and Animal Care Products Group Standard 2006
UN number NA
Proper Shipping Name NA
DG class NA
Packaging group NA
Hazchem code 1T (recommended)

Uses For animal treatment only. Vitamin A, D3, and E sterile injection. 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.

Company Details

Company Bayer New Zealand Ltd
Address 3 Argus Place,
 Hillcrest,
 Auckland 0627
 New Zealand.
Telephone 0800 652 488
Facsimile 0800 229 838

Emergency Telephone Number: 0800 734 607

2. HAZARD IDENTIFICATION

Approval

This product has been approved under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002521, Animal Nutritional and Animal Care Products Group Standard 2006), and is classified as follows:

Classes	Hazard Statements
6.1E (oral)	May be harmful if swallowed.
6.5B	May cause an allergic skin reaction.
6.8B	Suspected of damaging fertility or the unborn child.
6.8C	May cause harm to breast-fed children.
6.9B	May cause damage to organs.
9.1D	Harmful to aquatic life.
9.3B	Toxic to terrestrial vertebrates.

SYMBOLS

DANGER





Other Classifications

ACVM registration number: A005908

There are no other Classifications that are known to apply.

Precautionary Statements

Keep out of reach of children.
Read label before use.
Wash hands thoroughly after handling.
Do not eat, drink or smoke when using this product.
Contaminated work clothing should not be allowed out of the workplace.
Use personal protective equipment as required.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe vapours.
Avoid contact during pregnancy/while nursing.
Avoid release to the environment.

Further precautionary statements can be found in Section 4 – First Aid.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS/ Identification	Concentration
Vitamin A palmitate	79-81-2	60,000iu/mL
Vitamin D3	67-97-0	500,000iu/mL
Vitamin E acetate	7695-91-2	25mg/mL
Benzyl alcohol	100-51-6	1-10%
Butylated hydroxytoluene	128-37-0	<5%
Butylated hydroxyanisole	25013-16-5	<5%
Ingredients not contributing to HSNO classes	Proprietary	balance

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

4. FIRST AID

General Information

You should call the National Poisons Centre if you feel that you may have been harmed or irritated by this product. The number is 0800 764 766 (0800 POISON) (24 hr emergency service). If medical advice is needed, have product container or label at hand. IF exposed or concerned: Get medical advice.

Recommended first aid facilities Ready access to running water is recommended. Accessible eyewash is recommended.

Exposure

Swallowed

Call a POISON CENTER or doctor/physician if you feel unwell.

Eye contact

If product gets in eyes, wash material from them with running water for several minutes. If symptoms persist, seek medical advice.

Skin contact

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Inhaled

Generally, inhalation of fumes is unlikely to result in adverse health effects. If coughing, dizziness or shortness of breath is experienced, remove the patient to fresh air immediately. If patient is unconscious, place in the recovery position (on the side) for transport and contact a doctor.

Injected

IF INJECTED: Immediately call a POISON CENTER or doctor/physician.

Advice to Doctor

Treat symptomatically



5. FIREFIGHTING MEASURES

Fire and explosion hazards:	There are no specific risks for fire/explosion for this chemical. It is not classed as flammable. This material can burn in a fire.
Suitable extinguishing substances:	Carbon dioxide, extinguishing powder, foam, fog sprays.
Unsuitable extinguishing substances:	Unknown.
Products of combustion:	Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Water. May form toxic mixtures in air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures.
Protective equipment:	Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat and eye protection.
Hazchem code:	1T (recommended)

6. ACCIDENTAL RELEASE MEASURES

Containment	If greater than 1000L is stored, secondary containment and emergency plans to manage any potential spills must be in place. In all cases design storage to prevent discharge to stormwater.
Emergency procedures	The container size will usually prevent a large spill. In the event of a large spillage (>100L) alert the fire brigade to location and give brief description of hazard. Stop the source of the leak, if safe to do so. Wear protective equipment to prevent skin, eye and respiratory exposure. Clear area of any unprotected personnel. Contain using sand, earth or vermiculite.
Clean-up method	Prevent by whatever means possible any spillage from entering drains, sewers, or water courses. (If this occurs contact your regional council immediately). Use absorbent (soil, sand or other inert material). Rags are not recommended for the clean-up of spills, as they may create fire or environmental hazard. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.
Disposal	Mop up and collect recoverable material into labelled containers for recycling or salvage. Recycle containers wherever possible. This material may be suitable for approved landfill. Dispose of only in accord with all regulations.
Precautions	Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation.

7. STORAGE & HANDLING

Storage	Avoid storage of harmful substances with food. Store out of reach of children. Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames. Avoid contact with incompatible substances as listed in Section 10.
Handling	Keep exposure to a minimum, and minimise the quantities kept in work areas. See section 8 with regard to personal protective equipment requirements. Avoid skin and eye contact and inhalation of vapour, mist or aerosols.



8. EXPOSURE CONTROLS / PERSONAL PROTECTIVE EQUIPMENT

Workplace Exposure Standards

A workplace exposure standard (WES) has not been established by WorkSafe NZ for this product. There is a general limit of 10mg/m³ for dusts and mists when limits have not otherwise been established.

NZ Workplace Exposure Stds (2013)	Ingredient	WES-TWA	WES-STEL
	Butylated hydroxytoluene	10mg/m ³	data unavailable

Engineering Controls

In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far below the WES as practicable by applying the hierarchy of control required by the Health and Safety in Employment Act 1992 (HSE). Exposure can be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify processes or increase ventilation.

Personal Protective Equipment

Eyes



Avoid contact with eyes. Use safety glasses and or chemical splash goggles if splashes are possible.

Skin



Avoid repeated or prolonged skin contact. Wear overalls, rubber boots and impervious gloves. Nitrile gloves are recommended. Replace frequently. Gloves should be checked for tears or holes before use. Remove protective clothing and wash exposed areas with soap and water prior to eating, drinking or smoking.

Respiratory

A respirator when airborne concentrations approach the WES (section 8). Use a respirator with an organic vapour cartridge and a particulate filter. If using a respirator, ensure that the cartridges are correct for the potential air contamination and are in good working order.

WES Additional Information

Not applicable

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance	clear pale yellow oily liquid
Odour	characteristic odour
pH	no data
Vapour pressure	no data
Viscosity	no data
Boiling point	no data
Volatile materials	no data
Freezing / melting point	no data
Solubility	no data
Specific gravity / density	no data
Flash point	non flammable
Danger of explosion	not explosive
Auto-ignition temperature	no data
Upper & lower flammable limits	no data
Corrosiveness	non corrosive

10. STABILITY & REACTIVITY



Safety Data Sheet

Hideject

Stability	Stable
Conditions to be avoided	Containers should be kept closed in order to avoid contamination. Keep from extreme heat and open flames.
Incompatible groups	Strong acids, bases, oxidisers.
Substance Specific Incompatibility	none known
Hazardous decomposition products	Carbon dioxide, carbon monoxide.
Hazardous reactions	none known

11. TOXICOLOGICAL INFORMATION

Summary

IF SWALLOWED: May be harmful if swallowed. May cause gastrointestinal irritation and gastrointestinal upset.

IF IN EYES: May cause transient stinging or redness if accidental eye contact occurs.

IF ON SKIN: may cause allergic dermatitis.

IF INHALED: may be harmful if dust/mist is inhaled. May cause irritation to the respiratory tract.

IF INJECTED: similar symptoms as if swallowed.

CHRONIC EXPOSURE: may impair fertility. May affect breastfed babies. Long term exposure may affect the kidney and heart.

Supporting Data

Acute	Oral	Using LD ₅₀ 's for ingredients, the calculated LD ₅₀ (oral, rat) for the mixture is between 2000 and 5000mg/kg. Data considered includes: Vitamin A palmitate 1510mg/kg (mouse) for Vitamin A, Vitamin D3 42mg/kg (rat), benzyl alcohol 1040 mg/kg bw (rabbit), Butylated hydroxytoluene 650mg/kg (mouse), Butylated hydroxyanisole 2000mg/kg (mouse).
	Dermal	No data available for the ingredients.
	Inhaled	No evidence of inhalation toxicity.
	Eye	The mixture is not considered to be an eye irritant. Vitamin D3 is an eye irritant but is present in <10%
Chronic	Skin Sensitisation	The mixture is not considered to be a skin irritant. The mixture is considered to be a contact sensitizer. Benzyl alcohol, Butylated hydroxytoluene, Butylated hydroxyanisole are all known contact sensitizers.
	Mutagenicity	No ingredient present at concentrations > 0.1% is considered a mutagen.
	Carcinogenicity	No ingredient present at concentrations > 0.1% is considered a carcinogen.
	Reproductive / Developmental	The mixture is considered to be a reproductive or developmental toxicant, Vitamin A is classed as a suspected reproductive toxicant. The teratogenicity of vitamin A in both high and low doses is well established in animals. However, it is uncertain whether vitamin A is teratogenic in man. Vitamin D3 passes into breast milk and may affect breastfed babies. Butylated hydroxytoluene has been shown in animal studies to affect pups during the lactation period (weight loss).
	Systemic	The mixture is considered to be a suspected target organ toxicant. Long- term administration of as little as 10,000 IU daily of Vitamin A may be sufficient to cause chronic hypervitaminosis A. The main symptoms of chronic intoxication include malaise, gastrointestinal complaints, changes in the skin and mucous membranes, headache, tenderness and pain in the bone and joints, and fever. Vitamin D3 may affect the kidneys and the heart.
	Aggravation of existing conditions	None known.

12. ECOLOGICAL DATA

Safety Data Sheet

Hideject



Summary

This mixture is considered harmful to the aquatic environment and toxic towards terrestrial vertebrates.

Supporting Data

Aquatic	Using EC ₅₀ 's for ingredients, the calculated EC ₅₀ for the mixture is between 10 mg/L and 100 mg/L. Data considered includes: benzyl alcohol 10 mg/l (96hr, Lepomis macrochirus), 55 mg/L (24hr, Daphnia magna); 50 mg/l (5mins, Photobacterium phosphoreum), butylated hydroxytoluene 1.44mg/L (48hr, Daphnia magna), butylated hydroxyanisole 1mg/L (48hr, rainbow trout).
Bioaccumulation	No evidence of bioaccumulation.
Degradability	Expected to degrade rapidly.
Soil	EPA has not classified the mixture as ecotoxic in the soil environment.
Terrestrial vertebrate	Using LD ₅₀ 's for ingredients, the calculated LD ₅₀ (oral, rat) for the mixture is between 50 and 500 mg/kg. See acute toxicity.
Terrestrial invertebrate	No evidence of toxicity towards terrestrial invertebrates.
Biocidal	no data
Environmental effect levels	No EELs are available for this mixture or ingredients

13. DISPOSAL CONSIDERATIONS

Restrictions	There are no product-specific restrictions, however, local council and resource consent conditions may apply, including requirements of trade waste consents.
Disposal method	Disposal of this product must comply with the requirements of the Resource Management Act for which approval should be sought from the Regional Authority. The substance must be treated and therefore rendered non-hazardous before discharge to the environment.
Contaminated packaging	Rinse containers with water before disposal. Preferably re-cycle container, otherwise send to landfill or similar.

14. TRANSPORT INFORMATION

There are no specific restrictions for this product (not a dangerous good).

UN number:	NA	Proper shipping name:	NA
Class(es):	NA	Packing group:	NA
Precautions:	NA	Hazchem code:	1T (recommended)



15. REGULATORY INFORMATION

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002521, Animal Nutritional and Animal Care Products Group Standard 2006.

Specific Workplace Controls (as per HSNO approval referenced to Controls Matrix)

Key workplace requirements are:

MSDS	To be available within 10 minutes in workplaces storing > any quantity.
Labelling	No removal of labels and/or decanting of product into other containers can occur.
Emergency plan	Required if > 1000L is stored.
Approved handler	Not required, but this substance must be secured, while not in use so that a person who should not have access to this substance, cannot access it. is handled or stored. (exemptions apply for veterinarians)
Tracking	Not required.
Bunding & secondary containment	Required if > 1000L is stored.
Signage	Required if > 10000L is stored.
Location test certificate	Not required.
Flammable zone	Not required.
Fire extinguisher	Not required.

Note: The above workplace requirements apply if only this particular substance is present. The complete set of controls for a location will depend on the classification and total quantities of other substances present in that location.

Other Legislation

In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health, Safety in Employment Act and Regulations, local Council Rules and Regional Council Plans.

ACVM registration number: A005908



16. OTHER INFORMATION

Abbreviations

Approval Code	Approval HSR002521, Animal Nutritional and Animal Care Products Group Standard 2006 Controls, EPA. www.epa.govt.nz
ACVM	Agricultural Compounds and Veterinary Medicines
ARTG	Australian Register of Therapeutic Goods
CAS Number	Unique Chemical Abstracts Service Registry Number
Ceiling	Ceiling Exposure Value: The maximum airborne concentration of a biological or chemical agent to which a worker may be exposed at any time.
Controls Matrix	List of default controls linking regulation numbers to Matrix code (e.g. T1, I16).
EC₅₀	Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a test population (e.g. daphnia, fish species)
ERMA	Environmental Risk Management Authority (now EPA)
EPA	Environmental Protection Agency (previously known as ERMA)
HAZCHEM Code	Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters
HSNO	Hazardous Substances and New Organisms (Act and Regulations)
IARC	International Agency for Research on Cancer
LEL	Lower Explosive Limit
LD₅₀	Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).
LC₅₀	Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population (usually rats)
MSDS (SDS)	Material Safety Data Sheet (or Safety Data Sheet)
STEL	Short Term Exposure Limit - The maximum airborne concentration of a chemical or biological agent to which a worker may be exposed in any 15 minute period, provided the TWA is not exceeded
TWA	Time Weighted Average – generally referred to WES averaged over typical work day (usually 8 hours)
UEL	Upper Explosive Limit
UN Number	United Nations Number
WES	Workplace Exposure Standard - The airborne concentration of a biological or chemical agent to which a worker may be exposed.

References

Data	Unless otherwise stated comes from the EPA HSNO chemical classification information database (CCID) http://www.epa.govt.nz/hs/compliance/chemicals.html for specific chemicals.
EPA Transfer Gazettes	Classifications and controls assigned for specific ingredients (consolidated gazette, 2004)
Controls Matrix	Part of the EPA New Zealand User Guide to the HSNO Control Regulations
WES 2013	The NZ Workplace Exposure Standards Effective from 2013, published by WorkSafe NZ and available on their web site – www.worksafe.govt.nz .
Other References:	Suppliers SDS

Review

Date	Reason for review
January 2013	Not applicable – new SDS
March 2015	review of formulation and classification, group standard allocation, transport requirements, some formatting OSH to WorkSafe.

Disclaimer

This MSDS was prepared by Datachem LTD and is based on our current state of knowledge, including information obtained from suppliers. The MSDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the MSDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The likely HSNO classifications, are based on our experience, EPA Guidelines and international classifications. This MSDS is copyright Datachem and must not be edited without the permission of the copyright holder or used for other than intended purpose. To contact the MSDS author, email info@datachem.co.nz or phone: (09) 940 30 80.

