

ISSUED: 5 December 2016

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**SAFETY DATA SHEET**

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**Section 1: IDENTIFICATION of CHEMICAL PRODUCT and COMPANY**

<b>Product Identifier:</b>	<b>Anaplex Anabolic Hormone and Vitamin Complex Tablets</b>
<b>Product Code:</b>	61150 (100s)
<b>Recommended Use:</b>	Anabolic hormone and vitamin complex tablets for use as a supplement in post-surgical convalescence, geriatrics, and for stimulating erythropoietic activity in dogs and cats.
<b>Restrictions on Use:</b>	For animal treatment only.
<b>Company Identification:</b>	Jurox Pty Limited
<b>Address:</b>	85 Gardiner Street, Rutherford, NSW 2320, Australia
<b>Email:</b>	jenq@jurox.com.au
<b>Customer Centre:</b>	1800 023 312
<b>National Poisons Information Centre:</b>	13 1126 (Australia-wide)
<b>Emergency Telephone Number:</b>	1800 023 312 (9am – 5pm, Monday to Friday)

**Section 2: HAZARDS IDENTIFICATION**

**Hazard Classifications:** This product has been assessed according to GHS and is classified as follows:

GHS Category	Hazard code	Hazard Statement
Skin Sensitizer Category 1	H317	May cause an allergic skin reaction
Reproductive Toxicity Category 2	H361	Suspected of damaging fertility or the unborn child

**Signal word: WARNING**

**GHS Pictograms:**



Health hazard    Exclamation mark

**Precautionary statements:**Prevention

- P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P261 Avoid breathing dust  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves.  
P281 Use personal protective equipment as required.

Response

- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
P363 Wash contaminated clothing before reuse.  
P308 + P313 IF exposed or concerned: Get medical advice/attention.

Storage

- P405 Store locked up.

Disposal

- P501 Dispose of unused product and empty container by wrapping with paper and putting in garbage.

**Section 3: COMPOSITION / INFORMATION on INGREDIENTS**

INGREDIENT	CAS No.	CONTENT
Calcium phosphate dibasic	7757-93-9	58%
Magnesium phosphate	7757-87-1	15%
Ascorbic acid (Vitamin C)	50-81-7	6%
Norethandrolone	52-78-8	< 2%
Nicotinamide (Vitamin B3)	98-92-0	< 2%
Di-isopropylamine dichloroacetate	660-27-5	< 2%
Methionine	63-68-3	< 2%
Retinyl acetate (Vitamin A)	127-47-9	< 1%
Thiamine hydrochloride (Vitamin B1)	67-03-8	< 1%
Calcium pantothenate (Vitamin B5)	137-08-6	< 1%
DL-alpha tocopherol acetate (Vitamin E)	58-95-7	< 1%
Thioctic acid	62-46-4	< 1%
Riboflavin (Vitamin B2)	83-88-5	< 1%
Pyridoxine hydrochloride (Vitamin B6)	58-56-0	< 1%
Cholecalciferol (Vitamin D3)	67-97-0	< 0.1%
Other ingredients not contributing to the hazards	-	10 - 20%

## Section 4: FIRST AID MEASURES

**General Information:** Consult the National Poisons Centre on 13 1126 or a doctor immediately in every case of suspected chemical poisoning. Never give fluids or induce vomiting if a patient is unconscious or convulsing regardless of cause of injury. If medical advice/attention is needed, have this SDS, product container or label at hand.

**Symptoms and Effects of Exposure:** None known.

**Inhalation:** If irritation occurs, contact a Poisons Information Centre, or call a doctor. Remove source of contamination or move victim to fresh air. If breathing is difficult, oxygen may be beneficial if administered by trained personnel, preferably on a doctor's advice.

**Ingestion:** If swallowed do NOT induce vomiting. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.

**Skin:** If skin contact occurs, wash affected area thoroughly with plenty of soap and water. If skin irritation or rash occurs, get medical advice/attention.

**Eye:** If eye contact occurs, rinse cautiously with water for at least 20 minutes. Continue rinsing. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. If eye irritation persists, get medical advice/attention.

**Recommended First Aid Facilities:** Ready access to running water and soap is required. Accessible eyewash is required.

**Advice to Doctor:** Contains norethandrolone which is an anabolic-androgenic steroid. Treat symptomatically.

## Section 5: FIRE FIGHTING MEASURES

**Flash Point:** No data. Not flammable. Not combustible.

**Hazardous Combustion Products:** If involved in a fire, may emit noxious and irritant fumes.

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

**Protective Equipment:** Protective gloves and breathing apparatus.

**HAZCHEM Code:** None specified.

## Section 6: ACCIDENTAL RELEASE MEASURES

**Spills and Disposal:** This product is sold in small packages, and the accidental release from one of these is not usually a cause for concern. For small spills, clean up spilled product then wipe area and put empty container in garbage. Although no special protective clothing is normally necessary because of occasional minor contact with this product, it is good practice to wear impermeable gloves when handling chemical products. For large spills, exclude non-essential people from the area. Prevent spillage from entering drains or water courses and call emergency services.

**Protective Clothing:** For appropriate personal protective equipment see section 8.

**Environmental Precautions:** Prevent from entering drains, waterways or sewers. If spill does enter waterways contact local authority.

**Section 7: HANDLING AND STORAGE**

**Handling:** Avoid contact with skin, eyes and inhalation of dusts. Use personal protective equipment as required. Do not eat, drink or smoke while handling product.

**Storage:** Keep out of reach of children. Store below 30°C (room temperature), away from foodstuffs.

**Other Information:** Always read the label before use. See label for further information on handling and storage.

**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**This SDS describes personal protective measures relating to long term industrial and manufacturing exposure and emergency situations, such as accidents and spills. See product label for personal protective measures during normal use of the marketed product.**

**Exposure Limits:** No exposure limits have been assigned for this product. Known exposure limits for ingredients are as follows:

## Australian Exposure Standards

INGREDIENT	TWA	STEL
Magnesium phosphate	2 mg/m <sup>3</sup>	Not available

## Emergency Limits

INGREDIENT	TEEL-1	TEEL-2	TEEL-3
Nicotinamide	5.6 mg/m <sup>3</sup>	62 mg/m <sup>3</sup>	690 mg/m <sup>3</sup>

**Engineering Controls:** No special ventilation requirements are normally necessary for this product. However make sure that the work environment remains clean and that dusts are minimised.

**Personal Protective Equipment (PPE):**

Eye protection: Protective glasses or goggles are recommended when bulk quantities of this product are being handled.

Skin protection: When handling bulk quantities, prevent skin contact by wearing chemical protective gloves e.g. PVC.

Respiratory protection: Not required for the normal use of this product.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Yellow, half-scored round tablets	<b>Upper / Lower Flammability or Explosive Limits:</b>	Not available
<b>Odour:</b>	Not available	<b>Vapour Pressure:</b>	Not applicable
<b>Odour Threshold:</b>	Not available	<b>Vapour Density:</b>	Not applicable
<b>pH:</b>	Not applicable	<b>Relative Density:</b>	Not applicable
<b>Melting Point / Freezing point:</b>	Not available	<b>Solubility in Water:</b>	Immiscible
<b>Initial Boiling Point and Boiling Range:</b>	Not applicable	<b>Partition Coefficient:</b>	Not available
<b>Flashpoint:</b>	Not available	<b>Auto-Ignition Temperature:</b>	Not available
<b>Evaporation Rate:</b>	Not applicable	<b>Decomposition Temperature:</b>	Not available
		<b>Viscosity:</b>	Not applicable

**Section 10: STABILITY AND REACTIVITY**

**Reactivity:** This product is unlikely to react or polymerise under normal storage conditions.

**Stability:** When stored appropriately this product should show no significant degradation within the expiry period shown on the label.

**Conditions to Avoid:** Elevated temperatures and/or direct sunlight.

**Incompatible Materials:** Oxidising agents.

**Hazardous Decomposition Products:** No data available.

**Section 11: TOXICOLOGICAL INFORMATION**

**Signs & Symptoms of Exposure:** None known.

**Medical Conditions Generally Aggravated by Exposure:** None known.

**Acute Toxicity:**

Ingestion: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be acutely toxic by the oral route.

Calcium phosphate dibasic: Oral LD<sub>50</sub>: 3986 mg/kg (rat);  
Magnesium phosphate: No data;  
Ascorbic acid (Vitamin C): Oral LD<sub>50</sub>: 3367 mg/kg (mouse), 11900 mg/kg (rat);  
Norethandrolone: No data;  
Nicotinamide (Vitamin B3): Oral LD<sub>50</sub>: 2500 mg/kg (mouse), 3500 mg/kg (rat);  
Di-isopropylamine dichloroacetate: Oral LD<sub>50</sub>: 1700 mg/kg (mouse);  
Methionine: Oral LD<sub>50</sub>: 3600 mg/kg (rat);  
Retinyl acetate (Vitamin A): Oral LD<sub>50</sub>: 4100 mg/kg (mouse), > 2000 mg/kg (rat);  
Thiamine hydrochloride (Vitamin B1): Oral LD<sub>50</sub>: 3710 mg/kg (rat);  
Calcium pantothenate (Vitamin B5): Oral LD<sub>50</sub>: 10000 mg/kg (rat, mouse);  
DL-alpha tocopherol acetate (Vitamin E): Oral LD<sub>50</sub>: > 16000 mg/kg (rat);  
Thioctic acid: No data;  
Riboflavin (Vitamin B2): Oral LD<sub>50</sub>: > 10000 mg/kg (rat);  
Pyridoxine hydrochloride (Vitamin B6): Oral LD<sub>50</sub>: 4000 mg/kg (rat);  
Cholecalciferol (Vitamin D3): Oral LD<sub>50</sub>: 42 mg/kg (rat).

Inhalation: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be acutely toxic by the inhalation route.

Calcium phosphate dibasic: No data;  
Magnesium phosphate: No data;  
Ascorbic acid (Vitamin C): No data;  
Norethandrolone: No data;  
Nicotinamide (Vitamin B3): No data;  
Di-isopropylamine dichloroacetate: No data;  
Methionine: No data;  
Retinyl acetate (Vitamin A): No data;  
Thiamine hydrochloride (Vitamin B1): No data;  
Calcium pantothenate (Vitamin B5): No data;  
DL-alpha tocopherol acetate (Vitamin E): No data;  
Thioctic acid: No data;  
Riboflavin (Vitamin B2): No data;  
Pyridoxine hydrochloride (Vitamin B6): No data;  
Cholecalciferol (Vitamin D3): No data.

**Dermal:** No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be acutely toxic by the dermal route.

Calcium phosphate dibasic: Dermal LD<sub>50</sub>: > 7940 mg/kg (rabbit);  
Magnesium phosphate: No data;  
Ascorbic acid (Vitamin C): No data;  
Norethandrolone: No data;  
Nicotinamide (Vitamin B3): No data;  
Di-isopropylamine dichloroacetate: No data;  
Methionine: No data;  
Retinyl acetate (Vitamin A): No data;  
Thiamine hydrochloride (Vitamin B1): No data;  
Calcium pantothenate (Vitamin B5): No data;  
DL-alpha tocopherol acetate (Vitamin E): No data;  
Thioctic acid: No data;  
Riboflavin (Vitamin B2): No data;  
Pyridoxine hydrochloride (Vitamin B6): No data;  
Cholecalciferol (Vitamin D3): No data.

**Skin Corrosion / Irritation:** No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be a skin irritant.

**Serious Eye Damage / Irritation:** No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be an eye irritant.

**Respiratory or Skin Sensitisation:** No data for the mixture is available. Based on available data for the ingredients, the mixture is classified as a **Skin Sensitizer Category 1**.

**Germ Cell Mutagenicity:** No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be mutagenic.

**Carcinogenicity:** No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be carcinogenic.

**Reproductive Toxicity:** No data for the mixture is available. Based on available data for the ingredients, the mixture is classified as **Reproductive Toxicity Category 2**. Based on the results of animal studies, exposure to ascorbic acid (vitamin C), retinol acetate (vitamin A) or norethandrolone may result in toxic effects to the development of the foetus.

**STOT: Single exposure:** No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be a specific target organ toxicant after single exposure.

**STOT: Repeat exposure:** No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be a specific target organ toxicant after repeat exposure.

**Aspiration hazard:** No data available.

**Section 12: ECOLOGICAL INFORMATION**

**Ecotoxicity:** No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be toxic to the environment.

Fish

Calcium phosphate dibasic: No data;  
Magnesium phosphate: No data;  
Ascorbic acid (Vitamin C): LC<sub>50</sub> (96h): 1.2 mg/L;  
Norethandrolone: No data;  
Nicotinamide (Vitamin B3): LC<sub>50</sub> (96h): 1274 mg/L;  
Di-isopropylamine dichloroacetate: No data;  
Methionine: LC<sub>50</sub> (96h): 152 mg/L;  
Retinyl acetate (Vitamin A): LC<sub>50</sub> (96h) 0.014 mg/L;  
Thiamine hydrochloride (Vitamin B1): LC<sub>50</sub> (96h) 49762 mg/L;  
Calcium pantothenate (Vitamin B5): LC<sub>50</sub> (96h): 21.1 mg/L;  
DL-alpha tocopherol acetate (Vitamin E): LC<sub>50</sub> (96h): 0.00223 mg/L;  
Thioctic acid: LC<sub>50</sub> (96h) 33.3 mg/L;  
Riboflavin (Vitamin B2): LC<sub>50</sub> (96h): 42620 mg/L;  
Pyridoxine hydrochloride (Vitamin B6): LC<sub>50</sub> (96h): 221.4 mg/L;  
Cholecalciferol (Vitamin D3): No data.

Crustacea

Calcium phosphate dibasic: No data;  
Magnesium phosphate: No data;  
Ascorbic acid (Vitamin C): No data;  
Norethandrolone: No data;  
Nicotinamide (Vitamin B3): EC<sub>50</sub> (384h): 289 mg/L;  
Di-isopropylamine dichloroacetate: No data;  
Methionine: No data;  
Retinyl acetate (Vitamin A): EC<sub>50</sub> (48h) 46 mg/L;  
Thiamine hydrochloride (Vitamin B1): No data;  
Calcium pantothenate (Vitamin B5): EC<sub>50</sub> (384h): 40525 mg/L;  
DL-alpha tocopherol acetate (Vitamin E): No data;  
Thioctic acid: EC<sub>50</sub> (384h): 8.3 mg/L;  
Riboflavin (Vitamin B2): No data;  
Pyridoxine (Vitamin B6): EC<sub>50</sub> (384h): 107.4 mg/L;  
Cholecalciferol (Vitamin D3): EC<sub>50</sub> (384h): 0.04872 mg/L.

Algae and other aquatic plants

Calcium phosphate dibasic: No data;  
Magnesium phosphate: No data;  
Ascorbic acid (Vitamin C): EC<sub>50</sub> (96h): 140 mg/L;  
Norethandrolone: No data;  
Nicotinamide (Vitamin B3): EC<sub>50</sub> (96h): 8934 mg/L, NOEC (72h): 560 mg/L;  
Di-isopropylamine dichloroacetate: No data;  
Methionine: EC<sub>50</sub> (96h): 4696 mg/L;  
Retinyl acetate (Vitamin A): EC<sub>50</sub> (96h): 0.0014 mg/L, NOEC (72h): 0.05 mg/L;  
Thiamine hydrochloride (Vitamin B1): No data;  
Calcium pantothenate (Vitamin B5): EC<sub>50</sub> (96h): 65.9 mg/L;  
DL-alpha tocopherol acetate (Vitamin E): EC<sub>50</sub> (96h): 0.0057 mg/L;  
Thioctic acid: EC<sub>50</sub> (96h): 59.1 mg/L;  
Riboflavin (Vitamin B2): No data;  
Pyridoxine hydrochloride (Vitamin B6): EC<sub>50</sub> (96h): 15487 mg/L;  
Cholecalciferol (Vitamin D3): No data.



Ingredient	Persistence: Water/Soil	Persistence: Air	Bioaccumulation potential	Mobility in soil
Calcium phosphate dibasic	No data	No data	No data	No data
Magnesium phosphate	No data	No data	No data	No data
Ascorbic acid	LOW	LOW	LOW (LogKOW : -1.85)	LOW (KOC = 10)
Norethandrolone	No data	No data	No data	No data
Nicotinamide	HIGH	HIGH	LOW (LogKOW = -0.37)	LOW (KOC = 51.56)
Di-isopropylamine dichloroacetate	No data	No data	No data	No data
Methionine	LOW	LOW	LOW (LogKOW = -1.87)	LOW (KOC = 9.356)
Retinyl acetate	HIGH	HIGH	LOW (LogKOW = 8.6303)	LOW (KOC = 190700)
Thiamine hydrochloride	HIGH	HIGH	LOW (LogKOW = -1.777)	LOW (KOC = 87.51)
Calcium pantothenate	LOW	LOW	LOW (LogKOW = -1.694)	LOW (KOC = 10)
DL-alpha tocopherol acetate (Vitamin E)	HIGH	HIGH	LOW (LogKOW = 12.179)	LOW (KOC = 51280000)
Thioctic acid	LOW	LOW	LOW (LogKOW = 3.3972)	LOW (KOC = 89.07)
Riboflavin	HIGH	HIGH	LOW (LogKOW = -1.46)	LOW (KOC = 325.8)
Pyridoxine hydrochloride	LOW	LOW	LOW (LogKOW = -0.557)	LOW (KOC = 10)
Cholecalciferol	HIGH	HIGH	LOW (LogKOW = 10.239)	LOW (KOC = 1515000)

### Section 13: DISPOSAL INFORMATION

**Product Disposal:** Dispose of product only by using according to label or at an approved landfill.

**Container Disposal:** Dispose of container by wrapping with paper and putting in garbage.

### Section 14: TRANSPORT INFORMATION

**Dangerous Goods Classification:** Not classed as a Dangerous Good for transport purposes by road, sea or air.

### Section 15: REGULATORY INFORMATION

**Poison Schedule (SUSMP):** S4

**APVMA Registration No:** 36178

**AICS:** All of the significant ingredients in this formulation are compliant with NICNAS regulations.

**Section 16: OTHER INFORMATION**

This information is based on data believed by Jurox Pty Limited to be accurate at the time of writing but is subject to change without notice. It is given in good faith, but no warranty expressed or implied is made as to its accuracy, completeness otherwise and no assumption of liability from howsoever arising is made by Jurox Pty Limited by reason of the provision of this information. Every person dealing with the materials referred to herein does so at his/her own risk absolutely and must make independent determinations of suitability and completeness of information from all sources to ensure their proper use.

**Legend:**

<b>ADG</b>	Australian Code for the Transport of Dangerous Goods by Road & Rail, 7 <sup>th</sup> Edition.
<b>ADI</b>	Acceptable Daily Intake.
<b>AICS</b>	Australian Inventory of Chemical Substances.
<b>APVMA</b>	Australian Pesticides and Veterinary Medicines Authority.
<b>CAS No.</b>	Chemical Abstracts Service Registry Number.
<b>EC<sub>50</sub></b>	The median effect concentration, being a statistically derived concentration of a substance that can be expected to cause an adverse reaction in 50% of organisms or a 50% reduction in growth or in the growth rate of organisms.
<b>GHS</b>	Globally Harmonized System of Classification and Labelling of Chemicals.
<b>Hazchem Code</b>	Emergency action code of numbers and letters that provide information to emergency services especially firefighters.
<b>KOC</b>	Soil-Water Partition Coefficient. The ratio of a chemical's concentration that is adsorbed in the soil to the concentration of chemical in solution.
<b>KOW</b>	Octanol Water Partition Coefficient. The ratio of a compound's concentration in a known volume of n-octanol to its concentration in a known volume of water after the octanol and water have reached equilibrium.
<b>LC<sub>50</sub></b>	The median lethal concentration, being a statistically derived single dose of a substance that can be expected to cause death in 50% of animals.
<b>LD<sub>50</sub></b>	The median lethal dose, being a statistically derived single dose of a substance that can be expected to cause death in 50% of animals.
<b>NICNAS</b>	National Industrial Chemicals Notification and Assessment Scheme.
<b>NOEC</b>	No-observable-effect-concentration.
<b>PPE</b>	Personal Protective Equipment.
<b>PVC</b>	Polyvinyl Chloride.
<b>SDS</b>	Safety Data Sheet.
<b>STEL</b>	Short term exposure limit.
<b>STOT</b>	Specific Target Organ Toxicity.
<b>STOT – SE</b>	Specific target organ toxicity – single exposure
<b>SUSMP</b>	Standard for the Uniform Scheduling of Medicines and Poisons.
<b>TEELs</b>	Temporary Emergency Exposure Limits. Guidelines designed to predict the response of members of the general public to different concentrations of a chemical during an emergency response incident.
<b>TEEL-1</b>	The airborne concentration of a substance above which it is predicted that the general population, including susceptible individuals, could experience notable discomfort, irritation, or certain asymptomatic, nonsensory effects. However, these effects are not disabling and are transient and reversible upon cessation of exposure.
<b>TEEL-2</b>	The airborne concentration of a substance above which it is predicted that the general population, including susceptible individuals, could experience irreversible or other serious, long-lasting, adverse health effects or an impaired ability to escape.
<b>TEEL-3</b>	The airborne concentration of a substance above which it is predicted that the general population, including susceptible individuals, could experience life-threatening adverse health effects or death.
<b>TWA</b>	Time-Weighted Average. The average exposure over a specified period, usually a nominal eight hours.

**References:**

ChemID Plus

EPA New Zealand Chemical Classification and Information Database (CCID)

HSDB (Hazardous Substances Data Bank)

**This version issued:** 5 December 2016 and is valid for 5 years from this date.

**Supersedes:** This SDS supersedes the version issued on 10 June 2014.

**Revision History:**

Date of Revision	Reason
5 December 2016	Reclassification of substance to GHS classification and update of SDS to comply with SWA Code of Practice.

**END OF SDS**