
SAFETY DATA SHEET

Section 1: IDENTIFICATION of CHEMICAL PRODUCT and COMPANY

Product Name:	REPAIR INJECTION
Product Code:	50430 (10 mL)
Recommended Use:	An anabolic agent to be used as an aid in bone and tissue repair in dogs and horses.
Company Identification:	Jurox Pty Limited
Address:	85 Gardiner Street Rutherford NSW 2320 Australia
Customer Centre:	1800 02 3312
National Poisons Information Centre:	13 1126 (Australia-wide)
Emergency Telephone Number:	1800 02 3312 (9 a.m. – 5 p.m.)

Section 2: HAZARDS IDENTIFICATION

GHS Hazard Classifications:	Acute Aquatic Hazard Category 2 Carcinogen Category 2[†] Chronic Aquatic Hazard Category 2 Reproductive Toxicity Category 1B Reproductive Toxicity Category 2
------------------------------------	---

GHS Pictograms*:

Health hazard



Aquatic pollutant

Signal Word*: **Danger****Hazard Statements*:** Suspected of causing cancer[†]
Suspected of damaging fertility or the unborn child.
Toxic to aquatic life with long lasting effects.
([†] after long-term abuse only, see toxicology section)**Precautionary Statements*:** **Prevention**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid release to the environment.
Use personal protective equipment as required.**Response**
IF exposed or concerned: Get medical advice/attention.
Collect spillage.**Storage**
Store locked up.**Disposal**
Dispose of contents / container in accordance with label.

* N.B.: These statements are determined by Work Health and Safety regulations and may not reflect Signal Headings and First Aid and Safety statements on product labelling, which are determined by a competent authority during assessment for registration.

Section 3: COMPOSITION / INFORMATION on INGREDIENTS

INGREDIENT	CAS No.	CONTENT
Nandrolone decanoate	360-70-3	8%
17alpha-hydroxyprogesterone caproate	630-56-8	8%
Oestradiol dipropionate	113-38-2	0.2%
Vegetable oils		>60%

Section 4: FIRST AID MEASURES

- First Aid Measures:** 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 product container or label at hand.
- Inhalation:** If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
- Ingestion:** If swallowed, immediately give a glass of water. First aid is not generally required. If in doubt, contact a doctor or the National Poisons Centre on 13 1126.
- Skin:** If skin or hair contact occurs: Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
- Eye:** If eye contact occurs, rinse cautiously with water for at least 20 minutes. Continue rinsing. If eye irritation persists, get medical advice.
- Injection:** Treat as for needlestick injury. Wash area well and disinfect. If other symptoms become evident, seek medical advice.
- Advice to Doctor:** Treat as for androgen / anabolic steroid intoxication.

Section 5: FIRE FIGHTING MEASURES

- Flash Point:** Combustible.
- Hazardous Combustion Products:** If involved in a fire may emit toxic 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 boots and breathing apparatus.
- HAZCHEM Code:** None specified.

Section 6: ACCIDENTAL RELEASE MEASURES

- Spills and Disposal:** Slippery when spilt. Due to the nature of the packaging, large spills are unlikely to occur. In the event of a large spill, wear appropriate protective clothing. Exclude non-essential people from the area and remove all ignition sources. Use dry clean up procedures and avoid generating dust. Ventilate area and wash spill site after pick-up complete. Dispose of waste safely.
- Protective Clothing:** For appropriate personal protective equipment see section 8.
- Environmental Precautions:** Prevent from entering drains, waterways or sewers. If contamination of drains and waterways occurs, advise Emergency Services.

Section 7: HANDLING AND STORAGE

- Handling:** This is a Schedule 4 (Prescription Animal Remedy) product, available only to or through a veterinarian. Handle this product with care to avoid exposure, taking all recommended precautions. Avoid contact with skin and eyes. Wash hands after use.
- Storage:** Keep out of reach of children. Store below 30°C (room temperature) in a dry place. Protect from light. Store locked up, 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. Do not handle until all safety precautions have been read and understood.
- Protective Equipment:** Safety glasses with eye side shields or chemical goggles. Chemical protective gloves, e.g. PVC. Safety footwear or safety gumboots, e.g. rubber.
- Engineering Controls:** Handle in a well-ventilated area.
- Hygiene Precautions:** Do not drink, eat or smoke when handling this product. Wash hands after use. Care must be taken to avoid self-injection.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Pale yellow oily liquid.	Lower flammability limits:	Not applicable.
Odour:	Not available.	Vapour Pressure:	Not available.
Odour threshold:	Not available.	Vapour density:	Not available.
pH:	Not available.	Relative density:	Not applicable.
Melting Point:	Not available.	Specific Gravity:	~0.96.
Boiling Point:	Not applicable.	Solubility in Water:	Immiscible.
Flash Point:	>200°C (vegetable oils).	Partition coefficient:	Not available.
Evaporation Rate:	Not available.	Auto-ignition temperature:	Not available.
Flammability:	Not applicable.	Decomposition temperature:	Not available.
Upper flammability limits:	Not applicable.	Viscosity:	Not applicable.

Section 10: STABILITY AND REACTIVITY

- Stability:** When stored appropriately this product should show no significant degradation within the expiry period shown on the label.
- Hazardous Polymerisation:** Not known to occur.
- Materials to Avoid:** Avoid oxidising agents.

Section 11: TOXICOLOGICAL INFORMATION

Inhalation:	The material is not classified as toxic by inhalation.
Ingestion:	The material is not classified as toxic by ingestion.
Skin:	The material is not classified as toxic by skin contact.
Eye:	The material is not classified as an eye irritant.
Chronic Effects:	Repeated intake of progesterones may produce headache, nausea, vomiting, diarrhoea, inflammation of the mouth cavity with ulcers, swelling, weight change, fever, fatigue, increased or decreased sleep, mental depression, allergic rashes including hives and itching, acne, sensitivity to light, pigmented skin, hair loss, excessive hair growth, clotting and vein inflammation, obstructive jaundice, and precipitation of porphyria. Other symptoms may include menstrual disorders, breast changes, effects on the cervix, Candida infections of the vagina, decreased sex drive, and inhibition of sperm production.
Mutagenicity:	Not known to be mutagenic.
Carcinogenicity:	Anabolic steroids may be carcinogenic. They can stimulate growth of sex-hormone dependent tissue, primarily the prostate gland in men. Precocious prostatic cancer has been described after long-term anabolic steroid abuse.
Reproductive Toxicity:	Exposure to anabolic steroids during the first trimester may produce mild masculinization of the external genitalia of the female foetus or defects in the male. Exposure to female sex hormones during the first trimester has also been associated with various birth defects of the cardiovascular system and bones. 17ALPHA-HYDROXYPROGESTERONE CAPROATE: Paternal effects, effects on fertility.
Injection:	Nandrolone decanoate: LD ₅₀ (mouse), intraperitoneal: > 566mg/kg Oestradiol dipropionate: LD ₅₀ (mouse), subcutaneous: > 1000mg/kg

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Ingredient	Persistence: Water/Soil	Persistence: Air	Bioaccumulation	Mobility
Nandrolone decanoate	HIGH	No data available	LOW	LOW
17alpha-hydroxyprogesterone caproate	HIGH	No data available	LOW	LOW
Oestradiol dipropionate	HIGH	No data available	LOW	LOW

Section 13: DISPOSAL INFORMATION

Product Disposal:	Dispose of product only by using according to label or at an approved landfill.
Container Disposal:	Wrap with paper and place in garbage.

Section 14: TRANSPORT INFORMATION

Dangerous Goods Classification:	Not classified as a Dangerous Good according to the criteria of the Australian Dangerous Goods (ADG) Code.
HAZCHEM Code:	None specified.

Section 15: REGULATORY INFORMATION

Poisons Schedule:	S4
APVMA Registration Nos:	50151

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 do 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.

This SDS **supersedes the version created on 1 July 2013.**

Legend

Carcinogen: a substance or a mixture which induce cancer or increase its incidence.

CAS No.: a unique number assigned to a chemical by the Chemical Abstracts Service.

Flashpoint: the lowest temperature (corrected to a standard pressure of 101.3 kPa) at which the application of an ignition source causes the vapours of a liquid to ignite under specified test conditions.

GHS: the '*Globally Harmonized System of Classification and Labelling of Chemicals, 3rd Revised Edition*', published by the United Nations.

LD₅₀: means the median lethal dose, being a statistically derived single dose of a substance that can be expected to cause death in 50% of animals.

Mutagen: an agent giving rise to an increased occurrence of mutations in populations of cells and / or organisms.

PVC: Polyvinyl chloride.

References

ACToR database, United States EPA, <http://actor.epa.gov/actor/faces/ACToRHome.jsp>, entries for Nandrolone decanoate and Nandrolone.

ChemIDplus, entries for Nandrolone decanoate (RN: 360-70-3) and Estradiol dipropionate (RN: 113-38-2).

HSDB, <http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB>, entries for NANDROLONE (CASRN: 434-22-0) and 17ALPHA-HYDROXYPROGESTERONE (CASRN: 68-96-2).

VSDB (Veterinary Substances Database, <http://sitem.herts.ac.uk/aeru/vsdb/>), entry for nandrolone.

END OF SDS