

# SAFETY DATA SHEET

## SECTION 1 IDENTIFICATION

**Product Name:** ACTIVIRON PASTE  
**Company Product Code:** VAL0150, VAL0151,  
**Other Names:** NONE  
**Pack Size/Container Type:** 60ml and 900ml - packed in a recyclable, white HDPE drum  
**Recommended Use/Restrictions:** Oral iron supplement for horses  
**Company:** Zoo Pets Pty Ltd  
**Address:** 4/3 Terrace Road, North Richmond NSW 2754  
PO Box 506, Cherrybrook NSW 2126  
W: www.valueplus.net.au E: info@zoopets.com.au  
**Telephone Number:** +61 (0)2 4571 4211 (Mon-Fri 9:00am – 5:00pm)  
**Fax Number:** +61 (0)2 4571 4928  
**Emergency Telephone Number:** Poisons Information Centre 13 11 26

## SECTION 2 HAZARDS IDENTIFICATION

**Hazard Classification:** Non-dangerous goods according to Model WHS Regulations and the ADG Code  
**Signal Word:** None  
**Statement of Hazardous Nature:** Non-hazardous chemical  
**Precautionary Statement:** **KEEP OUT OF REACH OF CHILDREN**  
Non-hazardous chemical.  
Does not contain any restricted animal materials.

## SECTION 3 COMPOSITION AND INFORMATION ON INGREDIENTS

### INGREDIENTS

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Proportion (%)</u>	<u>EINECS/ELINC</u>
Ferric Sodium EDTA	15708-41-5	>15%	
Elemental iron in Ferric sodium EDTA-15.2%		Equal to ≈20mg/ml of Activiron paste	
MCT Oil	None allocated	>65%	
Pasting agents	Mix of components*	>15%	
Colour	8028-89-5		

\*The identity and concentration of individual components of this mixture is proprietary information and is regarded to be a trade secret pursuant to Section 1910.1200 of Title 29 of the Code of Federal Regulations.

## SECTION 4 FIRST AID MEASURES

Description of necessary measures according to routes of exposure.

**Eye:** Flush eyes with water for a minimum of 15 minutes. Seek medical attention promptly if Irritation persists or if any loss of vision occurs. Removal of contact lenses after eye injury should be undertaken by skilled personnel.

**Skin:** Remove contaminated clothing. Wash skin with water.  
Launder contaminated clothing before re-use. In the event of irritation, seek medical attention.

**Inhalation:** Remove affected person to fresh air.  
Treat unconsciousness by placing person in the coma position. Apply artificial respiration if breathing stops.

**Ingestion:** Toxicity of iron supplements is dose/body weight dependent  
Symptoms range from mild GIT upset to organ failure and death.  
If poisoning is suspected, **immediately contact a Poisons information Centre, Emergency Department or Doctor.**

## SECTION 5 FIRE FIGHTING MEASURES

**Suitable extinguishing media:** Foam, fine water spray, water fog, dry chemical or carbon dioxide may be used  
**Hazards from combustion products:** Burning can produce carbon monoxide and/or carbon dioxide

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## SECTION 6 ACCIDENTAL RELEASE MEASURES

<b>Minor spills:</b>	Paste can be scraped/shovelled up and disposed of as directed by local waste management authority. Avoid personal contact, including inhalation
<b>Major spills:</b>	Remove all personnel not involved in clean-up. Paste can be scraped/shovelled up and disposed of as directed by local waste management authority Residual can be removed with standard floor washing
<b>Personal Protective</b>	Refer Section 8 of this SDS

## SECTION 7 HANDLING AND STORAGE

<b>Handling:</b>	Use in well-ventilated areas Avoid personal contact, including inhalation Wear protective clothing Remove and wash clothing contaminated with material
<b>Storage:</b>	Store in original, clearly labelled containers Store in cool, dry, well-ventilated area
<b>Incompatibilities:</b>	Not to be stored with oxidising agents (Class 5.1)

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

<b>Occupational Exposure Limits:</b>	Not available
<b>Biological Limits/Values:</b>	No biological limit allocated
<b><u>Engineering Controls:</u></b> <b>Ventilation:</b>	Local exhaust ventilation and/or mechanical (general) exhaust is recommended where vapours are likely to be generated
<b>Special Consideration for Repair and/or maintenance of contaminated equipment</b>	No specific requirements Observe GMP
<b><u>Clean-up Procedure:</u></b>	For managing spills, refer Section 6 of this SDS Dispose of all waste containers and used drums in accordance with local authority guidelines
<b><u>Personal Protection:</u></b>	
<b>Personal Hygiene</b>	Protective clothing (gloves, overalls, boots etc) should be worn to prevent skin contact. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.
<b>Skin protection:</b>	Avoid skin contact by using approved chemical resistant gloves and aprons – PVC or Neoprene (AS 2161)
<b>Eye protection:</b>	Avoid eye contact by wearing chemical goggles with side-shields or face-shields

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(AS/NZ 1336) whenever exposed to vapour or mist or if there is a risk of splashing liquid in the eyes. Safety showers with eye wash should be provided in all areas where the product is handled

**Respiratory Protection:**

None should be needed if engineering, storage and handling controls are adequate to ensure that atmospheric contamination is kept below the National Standard. Where particulate concentrations are likely to approach or exceed the National Standard, an approved particulate respirator (AS/NZ 1716) must be worn. In suspected oxygen-deficient atmospheres such as empty vessels or confined spaces, use air-supplied hoods.

**Thermal Protection:**

None should be needed under normal conditions

**Smoking and other dusts:**

Smoking must be prohibited in all areas where this product is used. See flammability data above.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Paste
Appearance:	Thick, dark brown paste
Odour:	Caramel / honey
pH:	<b>6.5-6.9</b>
Vapour Pressure:	Not available.
Vapour Density:	Not available.
Boiling Point:	Not available.
Freezing/Melting Point:	Solid at room temperature.
Solubility in water:	Insoluble
Specific Gravity/Density:	1.18g/cm <sup>3</sup>

**Flammable Materials**

Flash Point:	Not available
Upper Flammable (explosive) limit:	<b>Not available</b>
Lower Flammable (explosive) limit:	<b>Not available</b>
Auto ignition temperature:	<b>Not available</b>

**Additional Properties**

Evaporation rate:	Not available
Molecular weight:	<b>Indeterminate - Mixture of components</b>
% Volatiles:	<b>&lt;0.1%</b>

## SECTION 10 STABILITY AND REACTIVITY

Chemical Stability:	Stable
Incompatible materials:	Refer Section 7 of this SDS
Conditions to avoid:	Refer Section 7 of this SDS
Hazardous decomposition products	Burning can produce carbon monoxide and/or carbon dioxide
Hazardous reactions:	Hazardous polymerization will not occur

## SECTION 11 TOXICOLOGICAL INFORMATION

**Acute effects**

Ingestion:	Ferric sodium EDTA oral LD50 values: 2710 to 10000 mg/kg body weight (equivalent to approximately 359 to 1326 mg iron/kg bw, respectively) in male and female Sprague Dawley rats <sup>1</sup> 794 mg/kg bw (approximately 105 mg iron/kg bw) in male and female Kunming mice <sup>2</sup>
<u>Toxicity in children</u>	<40 mg iron/kg bw Mild toxicity 40-60 mg iron/kg bw Moderate toxicity. <b>Requires immediate medical attention</b>

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>60 mg iron/kg bw Acute toxicity. **Requires immediate medical attention**<sup>3,4</sup>  
NB : 1 x 60mL syringe of Activiron contains 1200mg of elemental iron

**Eyes:** May cause transient irritation (tearing, redness) as experienced when foreign body comes in direct contact with eyes

**Skin:** May cause irritation in sensitive individuals

**Inhaled:** Not considered a hazard due to non-volatile nature of material  
Precautions to avoid dust inhalation should be taken

## Chronic effects

**Ingestion:** Regular consumption high doses can lead to toxicity  
Symptoms of toxicity include abdominal pain, nausea and vomiting  
Seek medical attention if these symptoms occur

**Eyes:** May cause transient irritation (tearing, redness) as experienced when foreign body comes in direct contact with eyes

**Skin:** May cause irritation in sensitive individuals

**Inhaled:** Not considered a hazard due to non-volatile nature of material.  
Precautions to avoid dust inhalation should be taken.

## SECTION 12 ECOLOGICAL INFORMATION

**Eco-toxicity:** No data available

**Persistence and Degradability:** **Biodegradable**

**Mobility:** None listed.

## SECTION 13 DISPOSAL CONSIDERATIONS

**Disposal Containers and Methods:** Syringe can be deposited in the appropriate recycling bin.

## SECTION 14 TRANSPORT INFORMATION

**HAZCHEM:** Not Applicable

**Marine Pollutant:** **No**

**Specific Precautions for user:** **Nil**

**Additional Transport Requirements:** **NIL**

## SECTION 15 TRANSPORT INFORMATION

**Poisons Schedule:** Not Scheduled

**Other:** NIL

## SECTION 16 OTHER INFORMATION

### Note

### References:

[1] Sichuan Provincial Sanitary and Anti-epidemic Station. Acute toxicity, mutagenicity and teratogenicity of NaFeEDTA in rats and mice [unpublished study]. Chengdu (China): Sichuan Provincial Sanitary and Anti-epidemic Station; 1993. [Translation provided by Junshi Chen, Beijing; Chinese Center for Disease Control and Prevention, Institute of Nutrition and Food Safety].

[2] Whittaker P, Ali SF, Imam SZ, Dunkel VC, 2002. Acute toxicity of carbonyl iron and sodium iron EDTA compared with ferrous sulphate in young rats. *Regul Toxicol Pharmacol* 36, 280-286.

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[3] Madiwale T, Liebelt E. Iron: not a benign therapeutic drug. *Curr Opin Pediatr.* 2006;18(2):174-179.  
doi:10.1097/01.mop.0000193275.62366.98

[4] <https://pch.health.wa.gov.au/For-health-professionals/Emergency-Department-Guidelines/Poisoning-Iron>

NOHSC: 2011 (2003)	National Code of Practice for the Preparation of Material Safety Data Sheets 2 <sup>nd</sup> Edition, April 2003, National Health and Safety Commission
NOHSC: 2011 (1994)	National Code of Practice for the Labelling of Workplace Substances, March 1994, Australian Government Publishing Services, Canberra
NES	National Occupational Exposure Standards for Workplace Atmospheric Contaminants (NES), Safe Work Australia
ADC Code	Australian Dangerous Goods Code 7 <sup>th</sup> Edition

**Date of Preparation / Revision:** MSDS Creation Date: 14/09/2020  
Revision Date: August, 2024

**This SDS contains only safety related information. For other data see product literature.**

**Acronyms/Abbreviations:**

<	less than
>	greater than
<b>AICS</b>	Australian Inventory of Chemical Substances
<b>ADG</b>	Australian Dangerous Goods Code
<b>CAS</b>	Chemical Abstracts Service (Registry Number)
<b>CO2</b>	Carbon Dioxide
<b>COD</b>	Chemical Oxygen Demand
<b>ERMA</b>	Environmental Risk Management Authority
<b>HSNO</b>	Hazardous Substance and New Organism
<b>IATA</b>	International Air Transport Association
<b>IDLH</b>	Immediately Dangerous to Life and Health
<b>IMDG</b>	International Maritime Dangerous Goods Code
<b>LC50</b>	LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.
<b>LD50</b>	LD stands for "Lethal Dose". LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals
<b>Misc</b>	miscible
<b>N/A</b>	Not Applicable
<b>NIOSH</b>	National Institute for Occupational Safety and Health
<b>NOHSC</b>	National Occupational Health and Safety Commission
<b>OECD</b>	Organization for Economic Co-operation and Development
<b>PEL</b>	Permissible Exposure Limit
<b>RCP</b>	Reciprocal Calculation Procedure
<b>STEL</b>	Short Term Exposure Limit
<b>TLV</b>	Threshold Limit Value
<b>TWA</b>	Time Weighted Average
<b>UN</b>	United Nations (number)
<b>cm<sup>2</sup></b>	square centimetres
<b>deg C ( °C )</b>	degrees Celsius
<b>g</b>	gram
<b>g/cm<sup>3</sup></b>	grams per cubic centimetre
<b>g/l</b>	grams per litre
<b>immiscible</b>	liquids are insoluble in each other

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<b>kg</b>	kilogram
<b>kg/m<sup>3</sup></b>	kilograms per cubic metre
<b>ltr</b>	Litre
<b>m<sup>3</sup></b>	cubic metre
<b>mPa.s</b>	milli Pascal per second
<b>mbar</b>	millibar
<b>mg</b>	milligram
<b>mg/24H</b>	milligrams per 24 hours
<b>mg/kg</b>	milligrams per kilogram
<b>mg/m<sup>3</sup></b>	milligrams per cubic metre
<b>miscible</b>	liquids form one homogeneous liquid phase regardless of the amount of either component present
<b>mm</b>	millimetre
<b>ppb</b>	parts per billion
<b>ppm</b>	parts per million
<b>ppm/2h</b>	parts per million per 2 hours
<b>ppm/6h</b>	parts per million per 6 hours
<b>tne</b>	tonne
<b>ug/24H</b>	micrograms per 24 hours
<b>wt</b>	weight

This SDS summarises Zoo Pets Pty Ltd best knowledge of the health and safety hazard information of the selected substance and how to safely handle the selected substance in the workplace however Zoo Pets Pty Ltd expressly disclaims that the SDS is a representation or guarantee of the chemical specifications for the substance. Each user should read the SDS and consider the information in the context of how the selected substance will be handled and used in the workplace including its use in conjunction with other substances.

**END OF SDS**