

MATERIAL SAFETY DATA SHEET

HYDRACEL ADVANCED ELECTROLYTE REPLACER FOR HORSES

SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: HYDRACEL ADVANCED ELECTROLYTE REPLACER FOR HORSES
Other Names: HYDRACEL
Manufacturer's Product Code: VAL3100, VAL3103, VAL3106
Recommended Use: Electrolyte formula for horses designed to replace electrolyte ions.
Company: Zoo Pets Pty Ltd
Address: Unit 4, 3 Terrace Road, North Richmond NSW 2766
PO Box 335, Horsley Park NSW 2175
Telephone Number: +61 (0)2 4571 4211 (Business Hours Only)
Fax Number: +61 (0)2 4571 4928
Emergency Telephone Number: +61 (0)2 4571 4211 (Mon-Thur 9:00am – 5:00pm, Fri 9:00am – 4:30pm);
Answering machine after hours. General Information.

SECTION 2 HAZARDS IDENTIFICATION

Not hazardous according to the criteria of NOHSC Australia.

Risk Phrases: Not applicable
Safety Phrases: Not applicable
HSNO Hazard Classification: Not applicable

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENTS

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Proportion (%)</u>
Sodium Chloride	7647-14-5	56.5
Potassium Chloride	7447-40-7	30.6
Magnesium Oxide	1309-48-4	3.0
Betaine	107-43-7	1.6
Other Inert Ingredients		to 100%

SECTION 4 FIRST AID

First Aid Measures: Consult the National Poisons Centre on 131126 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, label or MSDS at hand.

Inhalation: Inhalation is not normally harmful. Remove to fresh air and monitor breathing. If breathing becomes difficult, consult a doctor and show a copy of this MSDS.

Ingestion: Swallowing small quantities is not normally harmful. Immediately rinse mouth with water. Seek medical advice.

Skin: A small amount of skin contact is not normally harmful. Remove contaminated clothing and wash skin thoroughly before eating or drinking. Wash with soap and water. Wash contaminated clothing before reuse.

Eye: Hold eyes open, flood with water for 15 minutes. Seek medical advice.

Advice to Doctor: Treat symptomatically.

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing Media: Use extinguishing media suited to the fire environment.

Hazards from Combustion Products: Moderately combustible. Advise Fire Brigade of the nature of the hazard.

Special Protective Precautions and Equipment for Fire Fighters: In fire, spray water on decomposing mass. Fight upwind if outdoors. Wear self contained breathing apparatus in enclosed spaces.

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SECTION 6 ACCIDENTAL RELEASE MEASURES

Emergency Procedures:	No special requirements
Methods and Materials for Containment and Clean Up:	Sweep up, avoid producing dust. All sweepings, including broken packages must be safely disposed of. Wash down with large quantities of water. Avoid contaminating sewers and watercourses.

SECTION 7 HANDLING AND STORAGE

Precautions for Safe Handling:	Avoid contact with skin and eyes. When handling this product, wash hands before eating, drinking, smoking or using the toilet. See section 8 for details of personal protection measures.
Conditions for Safe Storage (Including Any Incompatibles):	Keep outer containers tightly closed and out of reach of children. Store in a cool, dry, shaded place away from strong acids, oxidising agents, foodstuffs, herbicides and fungicides. Adhere to storage requirements as listed on label.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:	No exposure limits have been assigned to this product.
Biological Limit Values:	No biological limits have been assigned to this product.
Engineering Controls:	Ensure ventilation is adequate to maintain airborne dust concentrations below occupational exposure standards.
Personal Protection:	Observe good industrial hygiene practices. Wear appropriate protective clothing: long sleeve shirt, trousers, glasses, gloves, dust mask when handling. If there is risk of inhalation hazard, wear a particulate respirator, conforming to AS1716-1982.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Powder – light brown colour
Odour:	Not applicable
Vapour Pressure:	Not determined
Vapour Density:	Not determined
Boiling Point:	Not determined
Melting Point:	Not determined
Solubility in Water:	Partially Soluble
Specific Gravity:	Not determined
Flash Point:	Not applicable
pH:	9.5 – 10.5 at 25°(5g in 100ml Distilled Water)
Lower Explosion Limit:	Not applicable
Upper Explosion Limit:	Not applicable
Ignition Temperature:	Not applicable

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability:	Product is not likely to react or decompose under normal storage conditions. May decompose under extreme heat (for example, in case of fire).
Conditions to Avoid:	Avoid conditions of extreme heat (fire). Avoid contact with strong acids, alkalis and their associated carbonates.
Incompatible Materials:	Strong oxidising agents; strong acids; strong alkalis. Sodium chloride component may react violently with Bromium trifluoride and Lithium. Potassium chloride component is incompatible with silver salts and concentrated sulphuric acid. Contact with hot nitric acid may cause toxic nitrosyl chloride. Contact with other strong acids may produce irritating hydrogen chloride gas.

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Hazardous Decomposition Products: Upon thermal decomposition, may emit smoke and toxic/corrosive gases including Hydrogen Chloride, Sodium Oxide (Na₂O), Potassium oxides, Sulphur Oxides.

Hazardous Reactions: No hazardous reactions such as polymerization known. See also above "Incompatible Materials".

SECTION 11 TOXICOLOGICAL INFORMATION

Considered to be practically non harmful by all exposure routes. Nevertheless, as with any premix, ingestion, inhalation of dust and prolonged or repeated skin contact should be avoided by good standards of industrial hygiene. Supersensitive individuals with skin or eye problems, kidney or asthmatic conditions should be precluded from exposure to this product.

Health Effects:

Acute:

Sodium Chloride: LD50 oral (rat): 3000mg/kg
Lowest Toxic Dose (human): 8.2g/kg

Potassium Chloride: LD50 oral (rat): 3000mg/kg
LDL₀ (human): 2600mg/kg

Other components: Data unknown

Inhalation: Inhalation of dust may cause respiratory irritation.

Ingestion: Virtually non-toxic by ingestion. Ingestion of excessive amounts may result in irritation of the gastrointestinal tract, nausea and vomiting.

Skin: May cause irritation if in contact with skin. Possible skin rash after prolonged contact.

Eye: May cause irritation, lachrimation, redness and pain.

Chronic Effects: No information found to indicate that this product is a chronic health hazard. Repeated or prolonged ingestion of large amounts of salts can lead to a rise in blood pressure and resulting systemic effects such as oedema.

Toxicity to Other Domestic Species: No animal should be given very large amounts of salts. Do not administer to horses with high blood pressure levels; do not mix with Alkaline Salts.

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity: No environmental toxicity expected with normal use volumes.
Aquatic toxicity (Sodium Chloride): TLM 96>1000 ppm
Limits for other ingredients unknown.

Persistence and Degradability: Data not available

Mobility: Data not available

SECTION 13 DISPOSAL CONSIDERATIONS

Product Disposal: Data not available

Container Disposal: Dispose of in accordance with Local, State and Federal EPA waste regulations.
Plastic pail packaging is suitable for re-use (triple rinse with water prior to re-use).

Special Precautions for Land Fill or Incineration: Data not available

SECTION 14 TRANSPORT INFORMATION

Dangerous Goods Classification: Not classified as dangerous goods. No special transport conditions.

UN Number: Not applicable

UN Proper Shipping Name: Not applicable

Class and Subsidiary Risk: Not applicable

Packing Group: Not applicable

Special Precautions for User: Not applicable

Hazchem Code: Not applicable

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SECTION 15 REGULATORY INFORMATION

Poisons Schedule:	Not scheduled
EPG:	Not applicable
AICS Name:	Not applicable
NZ Toxic Substance:	Not applicable
HSNO Hazard Classification:	Not applicable
ERMA Approval Code:	Not applicable

SECTION 16 OTHER INFORMATION

This product has been manufactured to GMP (Good Manufacturing Practices) standards in a fully licensed facility and is Australian owned and made.

Contact Point:	Product Manager, Zoo Pets Pty Ltd
Phone:	+61 (0)2 4571 4211 (Business Hours Only)
Fax:	+61 (0)2 4571 4928

This MSDS is prepared in accordance to the "National Code of Practice for the Preparation of Material Safety Data Sheets" 2nd Edition [NOHSC:2011(2003)].

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

Acronyms:

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

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kg/m³	kilograms per cubic metre
ltr	Litre
m³	cubic metre
mPa.s	milli Pascal per second
mbar	millibar
mg	milligram
mg/24H	milligrams per 24 hours
mg/kg	milligrams per kilogram
mg/m³	milligrams per cubic metre
miscible	liquids form one homogeneous liquid phase regardless of the amount of either component present
mm	millimetre
ppb	parts per billion
ppm	parts per million
ppm/2h	parts per million per 2 hours
ppm/6h	parts per million per 6 hours
tne	tonne
ug/24H	micrograms per 24 hours
wt	weight

This MSDS summarises Zoo Pets P/L 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 P/L expressly disclaims that the MSDS is a representation or guarantee of the chemical specifications for the substance. Each user should read the MSDS 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 MSDS