

SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Contact information

General

Manufacturer & Distributor:
Parnell Technologies Pty Ltd
Unit 4, Century Estate
476 Gardeners Road, NSW 2015
Australia

Distributor (USA & Canada):
Parnell U.S.1, Inc.
7015 College Blvd, Level 6
Overland Park, KS 66211
USA

Distributor (New Zealand):
Parnell NZ Co.
Auckland International Airport
Manukau 2150
New Zealand

Emergency telephone number

+61 2 9667 4411 (business hours)

+1-800-887-2763 (24 hours)

0800 446 282 (business hours) (Toll free within NZ)

Product identifier

Gonabreed Injection

Relevant identified uses of the substance or mixture and uses advised against

Active pharmaceutical ingredient: For the treatment of cystic ovaries and use in cattle synchronization protocols.

Note

The pharmacological, toxicological, and ecological properties of this material and/ or its ingredients have not been fully characterized and it should only be handled by technically qualified individuals. Exposure by any route should be minimized. Exercise due care: wear suitable protective clothing, gloves, and eye/face protections.

SECTION 2 - HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to GHS Regulation

Acute Toxicity Oral- Category 4 – H302 Harmful if swallowed

Acute Toxicity Oral- Category 4 – H332 Harmful if inhaled

Label elements

Hazard Pictogram



Signal word

Warning

SECTION 2 - HAZARDS IDENTIFICATION Continued...
Hazard statements

H302+H332: Harmful if swallowed or inhaled

Precautionary statements

- P261 Avoid breathing mist or vapours
- P264 wash skin thoroughly after handling
- P301+P312 if swallowed: call a poison centre or doctor if you feel unwell
- if inhaled: Remove person to fresh air and keep comfortable for breathing. Call
- P304+P340+P312: a poison centre or doctor if you feel unwell.
- P501 Dispose contents/ container as per applicable regulations.

Other Hazards

No data available.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS
Substance / Mixture: Mixture

Chemical name	CAS-No.	Concentration (% w/w)
Gonadorelin (as Acetate)	33515-09-2	< 0.1
Benzyl Alcohol	100-51-6	< 2
Sodium Chloride	7647-14-5	<1
Sodium di-Hydrogen Phosphate.2H ₂ O	13472-35-0	<1
Di-Sodium Hydrogen Phosphate.12H ₂ O	10039-32-4	<1

SECTION 4 - FIRST AID MEASURES
Description of first aid measures

Immediate Medical Attention Needed If you feel unwell, seek medical advice.

Eye Contact If easy to do, remove contact lenses, if worn. Immediately flush eyes with copious quantities of water for at least 15 minutes. If irritation occurs or persists, notify medical personnel and supervisor.

Skin Contact Wash exposed area with soap and water and remove contaminated clothing/shoes. If irritation occurs or persists, notify medical personnel and supervisor.

Inhalation Immediately move exposed subject to fresh air. If not breathing, give artificial respiration. If breathing is laboured, administer oxygen. Immediately notify medical personnel and supervisor.

SECTION 4 - FIRST AID MEASURES Continued...

Ingestion Do not induce vomiting unless directed by medical personnel. Do not give anything to drink unless directed by medical personnel. Never give anything by mouth to an unconscious person. Notify medical personnel and supervisor.

Protection of first aid responders Avoid contact with skin, eyes, and clothing. See Section 8 for Exposure Controls/Personal Protection recommendations.

Most important symptoms and effects, both acute and delayed Skin contact may provoke the following symptoms:
 Skin irritation
 Eye contact may provoke the following symptoms:
 Eye irritation
 Inhalation may provoke the following symptoms:
 Respiratory tract irritation
 Cough

Indication of immediate medical attention and special treatment needed, if necessary Medical conditions aggravated by exposure: None known or reported. Treat symptomatically and supportively.

SECTION 5 - FIREFIGHTING MEASURES

Extinguishing media Use water spray (fog), foam, dry powder, or carbon dioxide, as appropriate for local circumstances and the surrounding environment.

Specific hazards arising from the substance or mixture No information identified. May emit carbon monoxide, carbon dioxide, and oxides of sulfur and/or nitrogen, and/or other fluorine-, sulfur-, or nitrogen-containing compounds. Exposure to combustion products may be a hazard to health.

Flammability/Explosivity No information identified. High concentrations of finely divided organic particles can explode if ignited.

Unsuitable extinguishing media None known.

Special protective equipment for fire-fighters Wear full protective clothing and a NIOSH-approved (or equivalent) self-contained breathing apparatus with a full facepiece operated in the pressure demand or other positive pressure mode. Decontaminate all equipment after use.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures If substance is released or spilled, take proper precautions to minimize exposure by using appropriate personal protective equipment (see Section 8). Area should be adequately ventilated.

Environmental precautions Avoid emptying into drains and release to the environment, prevent further leakage or spillage if safe to do so.
Retain and dispose of contaminated wash water (see Section 12).

SECTION 6 - ACCIDENTAL RELEASE MEASURES Continued...

Methods and material for containment and cleaning up Surround spill with absorbents and place a damp cloth Add excess liquid to allow the material to enter solution. Capture remaining liquid onto spill absorbents. Place spilled materials into a leak-proof container suitable for disposal in. Local or national regulations may apply to the release and disposal of this material, as well as those materials and items employed in.
Keep in suitable, closed containers for disposal.
Wipe up with absorbent material (e.g. cloth, fleece). (see section 13).
Decontaminate the area.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling Follow recommendations for handling pharmaceutical agents (i.e., use of engineering controls and/or other personal protective equipment if needed). Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling.

Conditions for safe storage including any incompatibilities Store in a closed container.
Keep in properly labelled containers.
Store in accordance with the particular national regulations.

Materials to avoid None Known

Packaging material Unsuitable material: None known

Specific end use(s) No information identified.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Note Wash hands, face, and other potentially exposed areas immediately in the event of physical contact.

Control Parameters/Occupational Exposure Limit Values This mixture has no ingredients that have PEL, TLV, or other recommended exposure limit.

Biological limit values No biological exposure limits noted for the ingredient(s).

Exposure/Engineering controls Selection and use of containment devices and personal protective equipment should be based on a risk assessment of exposure potential.

Respiratory protection None Known.

Hand protection Wear nitrile or other impervious gloves if skin contact is possible.

Skin protection	Wear disposable coveralls appropriate to the task, booties, and safety glasses with side shields. Ensure gloves are protective against solvents in use. Protective garments (coveralls, disposable coveralls, lab coats) are not to be worn in common areas (e.g., cafeterias) or out-of-doors. Employees must be trained in proper gowning and de-gowning practices.
Eye/face protection	Wear safety glasses with side shields, chemical splash goggles, or full-face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face. An emergency eye wash station should be available.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION Continued...

Environmental Exposure Controls	Avoid release to the environment and operate within closed systems wherever practicable. Air and liquid emissions should be directed to appropriate pollution control devices. In case of spill, do not release to drains. Implement appropriate and effective emergency response procedures to prevent release or spread of contamination and to prevent inadvertent contact by personnel.
Other protective measures	Wash hands in the event of contact with this substance, especially before eating, drinking, or smoking. Protective equipment is not to be worn outside the work area (e.g., in common areas or out-of-doors). Decontaminate all protective equipment following use.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Clear liquid
Colour	Colourless solution
Odor	Benzyl alcohol
Odor threshold	No information identified.
pH	5.5 - 6.5
Melting point/freezing point	No information identified.
Initial boiling point and boiling range	No information identified.
Flash point	No information identified.
Evaporation rate	No information identified.
Flammability (solid, gas)	No information identified.
Upper/lower flammability or explosive limits	No information identified.
Vapor pressure	No information identified.
Vapor density	No information identified.

Relative density	No information identified.
Water solubility	No information identified.
Solvent solubility	No information identified.
Partition coefficient (<i>n</i>-octanol/water)	No information identified.
Auto-ignition temperature	No information identified.
Decomposition temperature	No information identified.
Viscosity	No information identified.
Explosive properties	No information identified.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES Continued...

Oxidizing properties	No information identified.
Other information	
Molecular formula	No information identified.
Molecular weight	No information identified.
Density	1.01 g/mL

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	Not classified as a reactivity hazard.
Chemical stability	No decomposition if stored and applied as directed. Stable under normal conditions.
Possibility of hazardous reactions	Stable under recommended storage conditions. No hazards to be specially mentioned. None known.
Conditions to avoid	No information identified.
Incompatible materials	No information identified.
Hazardous decomposition products	No information identified.

SECTION 11 - TOXICOLOGICAL INFORMATION

Information on toxicological effects

Route of entry May be exposed *via* ingestion, inhalation, or skin contact.

Acute toxicity
Product/Mixture: No data available

Components/Ingredients:

Gonadorelin

Acute toxicity LD₅₀ Oral - Rat - > 3000 mg/kg

Inhalation: No data available
 Dermal: No data available

Skin corrosion/irritation No data available
Serious eye damage/eye irritation No data available

Respiratory or skin sensitization No data available
Germ cell mutagenicity No data available
Carcinogenicity No data available
Reproductive toxicity No data available.
Specific target organ toxicity - single exposure No data available.

SECTION 11 - TOXICOLOGICAL INFORMATION Continued...

Specific target organ toxicity - repeated exposure No data available.
Aspiration hazard No data available

Benzyl Alcohol

Acute oral toxicity LD₅₀ Oral - Rat - male - 1.620 mg/kg
 LC₅₀ Inhalation - 4 h - > 4,178 mg/l - dust/mist
 Dermal: No data available

Skin corrosion/irritation Skin - Rabbit
 Result: No skin irritation - 4 h
Serious eye damage/eye irritation Eyes - Rabbit
 Result: irritating

Respiratory or skin sensitization Maximization Test
 Result: negative

Germ cell mutagenicity Test Type: Micronucleus test
 Species: Mouse
 Cell type: Red blood cells (erythrocytes)
 Application Route: Intraperitoneal
 Result: negative

Carcinogenicity No data available

Reproductive toxicity No data available

Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard No data available

Sodium chloride:

Acute oral toxicity	LD ₅₀ (Rat): > 3,550 mg/kg Remarks: Excessive exposure may cause: Nausea and/or vomiting.
Acute inhalation toxicity	LC ₅₀ (Rat): > 42 mg/l Exposure time: 1 h Test atmosphere: dust/mist
Acute dermal toxicity	LD ₅₀ (Rabbit): 10,000 mg/kg
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available

SECTION 11 - TOXICOLOGICAL INFORMATION Continued...

Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
Sodium di-Hydrogen Phosphate	
Acute toxicity	No data available Inhalation: No data available Dermal: No data available
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available.
Specific target organ toxicity - single exposure	No data available.

Specific target organ toxicity - repeated exposure	No data available.
Aspiration hazard	No data available
Di-Sodium Hydrogen Phosphate	
Acute oral toxicity	LD ₅₀ Oral - Rat - female - > 2.000 mg/kg LC ₅₀ Inhalation - Rat - male and female - 4 h - > 0,83 mg/l - dust/mist LD ₅₀ Dermal - Rat - male and female - > 2.000 mg/kg
Skin corrosion/irritation	Skin - Rabbit Result: No skin irritation - 24 h
Serious eye damage/eye irritation	Eyes - Rabbit Result: No eye irritation - 30 s

SECTION 11 - TOXICOLOGICAL INFORMATION Continued...

Respiratory or skin sensitization	Local lymph node assay (LLNA) – Mouse Result: negative
Germ cell mutagenicity	Test Type: Micronucleus test Test system: Human lymphocytes Metabolic activation: with and without metabolic activation Result: negative Test Type: In vitro mammalian cell gene mutation test Test system: mouse lymphoma cells Metabolic activation: with and without metabolic activation Result: negative Test Type: Chromosome aberration test in vitro Test system: Human lymphocytes Metabolic activation: with and without metabolic activation Result: negative
Carcinogenicity	No data available
Reproductive toxicity	No data available.
Specific target organ toxicity - single exposure	No data available.
Specific target organ toxicity - repeated exposure	No data available.
Aspiration hazard	No data available

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity
Product/Mixture: No data available

Components/Ingredients:
Gonadorelin

Toxicity to fish	No data available
Toxicity to daphnia and other aquatic invertebrates	No data available
Toxicity to algae/aquatic plants	No data available
Toxicity to fish (Chronic toxicity)	No data available
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	No data available
Persistence and degradability	No data available
Bio accumulative potential	No data available

SECTION 12 - ECOLOGICAL INFORMATION Continued...

Benzyl Alcohol

Toxicity to fish	Static test LC ₅₀ - Pimephales promelas (fathead minnow) - 460 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	Immobilization EC ₅₀ - Daphnia magna (Water flea) - 230 mg/l - 48 h
Toxicity to algae/aquatic plants	static test ErC ₅₀ - Pseudokirchneriella subcapitata (green algae) - 700 mg/l - 72 h
Toxicity to daphnia and other aquatic invertebrates (Chronic Toxicity)	semi-static test NOEC - Daphnia magna (Water flea) - 51 mg/l - 21 d
Toxicity to microorganisms	No data available
Persistence and degradability	Aerobic - Exposure time 14 d Result: 92 - 96 % - Readily biodegradable.
Biochemical Oxygen Demand (BOD)	1.550 mg/g
Theoretical oxygen demand	2.515 mg/g
Ratio BOD/ThBOD	62 %
Bio accumulative potential	No data available

Sodium chloride:

Toxicity to fish	LC ₅₀ (Lepomis macrochirus (Bluegill sunfish)): 5,840 mg/l Exposure time: 96 h Test Type: flow-through test Method: OECD Test Guideline 203 LC ₅₀ (Pimephales promelas (fathead minnow)): 10,610 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203
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Toxicity to daphnia and other aquatic invertebrates	EC ₅₀ (Daphnia magna (Water flea)): 1,900 mg/l Exposure time: 48 h Test Type: static test
Toxicity to algae/aquatic plants	EC ₅₀ (Other): 2,430 mg/l End point: Growth inhibition (cell density reduction) Exposure time: 120 h Test Type: static test Method: OECD Test Guideline 201
Toxicity to microorganisms	IC ₅₀ (activated sludge): > 1,000 mg/l Method: OECD 209 Test
Persistence and degradability	No data available
Bio accumulative potential	
Sodium di-Hydrogen Phosphate	
Toxicity to fish	No data available

SECTION 12 - ECOLOGICAL INFORMATION Continued...

Toxicity to daphnia and other aquatic invertebrates	No data available
Toxicity to algae/aquatic plants	No data available
Toxicity to microorganisms	No data available
Persistence and degradability	No data available
Bio accumulative potential	No data available
Di-Sodium Hydrogen Phosphate	
Toxicity to fish	Semi-static test LC ₅₀ - Oncorhynchus mykiss (rainbow trout) - > 100 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	Static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h
Toxicity to algae/aquatic plants	Static test ErC50 - Desmodesmus subspicatus (green algae) - > 100 mg/l - 72 h
Toxicity to microorganisms	static test EC50 - activated sludge - > 1.000 mg/l - 3 h
Persistence and degradability	No data available
Bio accumulative potential	No data available

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste treatment methods	Dispose of wastes in accordance to prescribed federal, state, and local guidelines, e.g., appropriately permitted chemical waste incinerator. Do not let down the drain or flush down the toilet. All waste containing the material should be properly labelled. Rinse waters resulting from spill cleanups should be discharged in an environmentally safe manner, e.g., appropriately permitted municipal or on- site wastewater treatment facility. Follow all applicable regional, national, and local laws.
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SECTION 14 - TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable

IATA-DGR

UN/ID No.	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable

SECTION 14 - TRANSPORT INFORMATION Continued...

Packing instruction (cargo aircraft)	:	Not applicable
Packing instruction (passenger aircraft)	:	Not applicable

IMDG-Code

UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
EmS Code	:	Not applicable
Marine pollutant	:	Not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

NZS 5433

UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Hazchem Code	:	Not applicable

49 CFR Road

Not regulated as a dangerous good

ADG

UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable

Subsidiary risk : Not applicable
Packing group : Not applicable
Labels : Not applicable
Hazchem Code : Not applicable

TDG

Not regulated as a dangerous good

SECTION 15 - REGULATORY INFORMATION

Safety, health, and environmental regulations/legislation specific for the substance or mixture This SDS generally complies with the requirements listed under current guidelines in the USA, Australia, New Zealand, and Canada.

Chemical safety assessment Not conducted.

The ingredients of this product are reported in the following inventories:

TSCA : Product contains substance(s) not listed on TSCA inventory.

SECTION 15 - REGULATORY INFORMATION Continued...

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SARA 311/312 Hazards:

No Hazards category to report.

Massachusetts Right to Know Components:

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right to Know Components:

No components are subject to the Pennsylvania Right to Know Act.

New Jersey Right to Know Components:

No components are subject to the New Jersey Right to Know Act.

California Prop. 65 Components:

Not listed.

Safety, health, and environmental regulations/legislation specific for the substance or mixture

Standard for the Uniform Scheduling of Medicines and Poisons No poison schedule number allocated (Please use the original publication of the SUSMP to check for specific uses, specific conditions or threshold limits that might apply for this chemical)

Prohibition/Licensing Requirements : There is no applicable prohibition, authorisation, and restricted use requirements, including for carcinogens referred to in Schedule

DSL

10 of the model WHS Act and Regulations.
: This product contains components that are not listed on the Canadian DSL nor NDSL.

HSNO Approval Number

Not applicable

HSW Controls

Certified handler certificate not required.

Tracking hazardous substance not required.

Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

SECTION 16 - OTHER INFORMATION

Full text of H phrases and GHS classifications No information identified.

Sources of data
Abbreviations

Information from published literature and internal company data.

ACGIH - American Conference of Governmental Industrial Hygienists; ADR/RID - European Agreement Concerning the International Carriage of Dangerous Goods by Road/Rail; AIHA - American Industrial Hygiene Association; CAS# - Chemical Abstract Services Number; CLP - Classification, Labelling, and Packaging of Substances and Mixtures; DNEL - Derived No Effect Level; DOT - Department of Transportation; EINECS - European Inventory of New and Existing Chemical Substances; ELINCS - European List of Notified Chemical Substances; EU - European Union; GHS - Globally Harmonized System of Classification and Labelling of Chemicals; IARC - International Agency for Research on Cancer; IDLH - Immediately Dangerous to Life or Health; IATA - International Air Transport Association; IMDG - International Maritime Dangerous Goods; LOEL - Lowest Observed Effect Level; LOAEL - Lowest Observed Adverse Effect Level; NIOSH - The National Institute for Occupational Safety and Health; NOEL - No Observed Effect Level; NOAEL - No Observed Adverse Effect Level; NTP - National Toxicology Program; OEL - Occupational Exposure Limit; OSHA - Occupational Safety and Health Administration; PBT - Persistent, Bio accumulative, and Toxic; PNEC - Predicted No Effect Concentration; SARA - Superfund Amendments and Reauthorization Act; STOT - Specific Target Organ Toxicity; STEL - Short Term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; vPvB - Very Persistent and Very Bio accumulative; WHMIS - Workplace Hazardous Materials Information System

Revision Date 13 Dec 2024

Disclaimer

The above information is based on data available to us and is believed to be correct. Since the information may be applied under conditions beyond our control and with which we may be unfamiliar, we do not assume any responsibility for the results of its use and all persons receiving it must make their own determination of the effects, properties and protections which pertain to their particular conditions.

No representation, warranty, or guarantee, express or implied (including a warranty of fitness or merchantability for a particular purpose), is made with respect to the materials, the accuracy of this information, the results to be obtained from the use thereof, or the hazards connected with the use of the material. Caution should be used in the handling and use of the material because it is a pharmaceutical product. The above information is offered in good faith and with the belief that it is accurate. As of the date of issuance, we are providing all information relevant to the foreseeable handling of the material. However, in the event of an adverse incident associated with this product, this Safety Data Sheet is not, and is not intended to be, a substitute for consultation with appropriately trained personnel.