

SAFETY DATA SHEET

Section 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: EQUILIQ
Synonyms: Equimol, AGR Industries Equine Supplement

Product Use: Nutritional supplement for horses.

Supplier: AGR Industries
160 Musgrave Road
Coopers Plains QLD 4108
AUSTRALIA

Telephone: (07) 3255 6333
Facsimile: (07) 3255 6433

Section 2 HAZARDS IDENTIFICATION

GHS Classification: Not a dangerous substance according to GHS

GHS Label Elements Pictogram: NONE
Signal Word: NONE
Hazard Statements: NONE
Precautionary Statements: NONE

Other Hazards: NONE

Section 3 COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS	Proportion
Molasses	-	85 to 95 %
Biotin	58-85-5	Max. 2 mg/kg
Cobalt Sulfate Heptahydrate	10026-24-1	Max. 2 ug/kg
Copper Sulfate Pentahydrate	7758-99-8	Max. 400 mg/kg
Ferrous Sulfate Heptahydrate	7782-63-0	Max. 4000 mg/kg
Phosphoric Acid	7664-38-2	Max. 1 %
Potassium Iodide	7681-11-0	Max. 5 ug/kg
Sodium Selenite	10102-18-8	Max. 2 ug/kg
Vitamin A (as Acetate)	127-47-9	Max. 2 mg/kg
Vitamin E (as Acetate)	7695-91-2	Max. 80 mg/kg
Zinc Sulfate Monohydrate	7733-02-0	Max. 1000 mg/kg
Remaining Non-Hazardous Ingredients	-	to 100 %

Section 4 FIRST AID MEASURES

Description of First Aid Measures

General: Consult a physician. Show this safety data sheet to the doctor in attendance.

If Inhaled: Remove from source of mist, fumes, or combustion products.
Lay patient down quietly and keep warm and rested.
Remove any prostheses and loosen any clothing which may affect breathing.
If breathing has stopped or is laboured, give assisted respiration.
Seek medical advice.

In Case of Skin Contact: Remove contaminated clothing and wash off with soap and plenty of water.

In Case of Eye Contact: Hold eyes open and rinse thoroughly with plenty of water for at least 15 minutes.
Consult a doctor immediately.
Removal of contact lenses should only be undertaken by skilled personnel.

If Swallowed: Never give anything by mouth to an unconscious person.
If swallowed, immediately rinse mouth with water (provided person is conscious).
DO NOT INDUCE VOMITING.
If vomiting occurs, place victim's face downwards with head lower than hips.
Give quantities of water or milk.
Seek medical advice.

Most Important Symptoms and Effects, Both Acute and Delayed

The most important known symptoms and effects of the ingredients are described in Section 11.

Indication of Any Immediate Medical Attention and Special Treatment Needed

No data available.

Further Information

Advice to Doctor: Treat symptomatically; Attention for diabetics- product contains sugars.

Section 5 FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing media suitable for surrounding areas.
There is no restriction on the type of extinguishing media which may be used.

Special Hazards Arising from the Mixture

This product is non-flammable. However, following evaporation of aqueous component under fire conditions, the remaining non-aqueous component may decompose and/or burn. Produces melting, flowing, burning liquid with dense, acrid black smoke.

Under fire conditions, this product may decompose and produce irritating or noxious fumes and gases, including oxides of sulphur and carbon monoxide and carbon dioxide.

Advice for Fire Fighters

Use water delivered as a fine spray to control the fire and cool the adjacent area.

Cool fire exposed containers with water spray.

Avoid spraying water onto liquid pools: slippery when spilt.

Do not approach containers suspected to be hot: product has high heat capacity.

Further Information

No data available.

Section 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Slippery when spilt. For personal protection, see Section 8.

Environmental Precautions

Do not allow product to enter drains, sewers, or local waterways.

Methods and Materials for Containment and Cleaning Up

Dam and absorb with dry earth, sand, bentonite, diatomite or zeolite. Shovel up and dispose of to waste disposal site approved of by Local Authority by-laws.

Reference to Other Sections

For disposal, see Section 13.

Section 7 HANDLING AND STORAGE

Precautions for Safe Handling

Product is considered stable.

Wash hands after handling.

Do not eat, drink or smoke when handling.

Conditions for Safe Storage, Including any Incompatibilities

Store in lined steel, polyethylene or polypropylene containers appropriate for high density and high viscosity liquids. Taps and fittings may be of plastic, steel or brass construction. However, avoid aluminium or galvanized containers and fittings.

Product may react with aluminium or zinc and cause corrosion and/or potentially harmful or adverse emissions.

Product may be temporarily stored or transported in mild steel vessels.

Store away from sources of heat or ignition and away from oxidizing agents.

Specific End Uses

Apart from the uses mentioned in Section 1, no other specific uses are noted or recommended.

Section 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters – Occupational Exposure Limits

No exposure limits have been assigned to this product.

Exposure Controls - Appropriate Engineering Controls

No special controls for handling small quantities.

General good industrial hygiene and safe work practice.

Exposure Controls - Personal Protective Equipment

No special equipment for handling small quantities.

OTHERWISE:

Eye/Face Protection: Safety glasses approved under appropriate Standards such as AS/NZS 1337 - Eye Protectors for Industrial Applications.
Eye wash unit.
Contact lenses may pose a special hazard, as they may absorb and concentrate irritants.

Skin Protection: Impervious gloves such as rubber, PVC or nitrile.
Barrier cream.

Body Protection: Suitable protective work wear, e.g. long-sleeved safety clothes or coveralls and safety boots.

Respiratory Protection: Respiratory protection is not required. Where protection from nuisance levels of mists or aerosols is desired, use type P2 dust/mist/fume masks approved under appropriate Standards such as AS/NZS 1716 - Respiratory Protective Devices.

Section 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Dark brown liquid
Odour	Molasses, liquorice
Odour Threshold	No data
pH	3 to 6
Melting / Freezing Point	Less than -15°C
Initial Boiling Point	Greater than 100°C
Boiling Range	No data
Flash Point	No data
Evaporation Rate	No data
Flammability	No data
Upper / Lower Flammability Limits	No data
Explosive Limits	No data
Vapour Pressure	No data
Vapour Density	No data
Relative Density	1.34 (water = 1)
Water Solubility	Fully miscible
Partition Coefficient: <i>n</i> -Octanol:Water	No data
Autoignition Temperature	No data
Decomposition Temperature	Greater than 65°C
Viscosity	Greater than 300cP at 25°C

Section 10 CHEMICAL STABILITY / REACTIVITY

Reactivity	Na data
Chemical Stability	Product is considered stable under normal conditions.
Possibility of Hazardous Reactions	No data
Conditions to Avoid	No data
Incompatible Materials	Strong oxidizers, aluminium, zinc, brass, galvanized fittings.
Hazardous Decomposition Products	In the event of fire, may produce dense, acrid black smoke. Combustion products may include carbon monoxide (CO) and carbon dioxide (CO ₂).

Section 11 TOXICOLOGICAL INFORMATION

Toxicological information of ingredients (listed in Section 3):

Acute Toxicity

Molasses	Biotin	Cobalt Sulfate Heptahydrate	Copper Sulfate Pentahydrate	Ferrous Sulfate Heptahydrate	Phosphoric Acid
Rat LD50(oral) >50000mg/kg (Based on sugars concentration; Behavioural: coma, cyanosis diarrhoea)	No data	Rat LD50(oral) 582mg/kg	Rat LD50(oral) 300mg/kg	Mouse LC50(oral) 1520mg/kg Mouse LD50(IV) 51mg/kg	No data

Potassium Iodide	Sodium Selenite	Vitamin A	Vitamin E	Zinc Sulfate Monohydrate
Mouse LC50(oral) 1000mg/kg	Mouse LD50(oral) 7.08mg/kg Mouse LD50(IV) 5mg/kg	Rat LD50(oral) >2000mg/kg	Rat LD50(oral) >10000mg/kg	No data

Skin Corrosion / Irritation

Molasses	Biotin	Cobalt Sulfate Heptahydrate	Copper Sulfate Pentahydrate	Ferrous Sulfate Heptahydrate	Phosphoric Acid
No data	No data	No data	No data	No data	No data

Potassium Iodide	Sodium Selenite	Vitamin A	Vitamin E	Zinc Sulfate Monohydrate
Rabbit Irritating	No data	No data	Rabbit Not irritating	No data

Serious Eye Damage / Eye Irritation

Molasses	Biotin	Cobalt Sulfate Heptahydrate	Copper Sulfate Pentahydrate	Ferrous Sulfate Heptahydrate	Phosphoric Acid
No data	No data	No data	No data	No data	No data

Potassium Iodide	Sodium Selenite	Vitamin A	Vitamin E	Zinc Sulfate Monohydrate
Rabbit Irritating	No data	Rabbit Not irritating	Rabbit Not irritating	No data

Respiratory or Skin Sensitization

Molasses	Biotin	Cobalt Sulfate Heptahydrate	Copper Sulfate Pentahydrate	Ferrous Sulfate Heptahydrate	Phosphoric Acid
No data	No data	No data	Prolonged exposure may cause allergic reactions in sensitive individuals	No data	No data

Potassium Iodide	Sodium Selenite	Vitamin A	Vitamin E	Zinc Sulfate Monohydrate
Prolonged exposure may cause allergic reactions in sensitive individuals	No data	Guinea pig No skin sensitization	No data	No data

Germ Cell Mutagenicity

Molasses	Biotin	Cobalt Sulfate Heptahydrate	Copper Sulfate Pentahydrate	Ferrous Sulfate Heptahydrate	Phosphoric Acid
No data	No data	Hamster Embryo Micronucleus test	No data	No data	No data

Potassium Iodide	Sodium Selenite	Vitamin A	Vitamin E	Zinc Sulfate Monohydrate
No data	Mutagenic effects in the laboratory	Negative Ames test	Mouse micronucleus test Negative	No data

Carcinogenicity

Molasses	Biotin	Cobalt Sulfate Heptahydrate	Copper Sulfate Pentahydrate	Ferrous Sulfate Heptahydrate	Phosphoric Acid
No data	No confirmed human carcinogenicity by IARC	IARC Group 2B 6 Possible human carcinogen	No confirmed human carcinogenicity by IARC	No confirmed human carcinogenicity by IARC	No confirmed human carcinogenicity by IARC

Potassium Iodide	Sodium Selenite	Vitamin A	Vitamin E	Zinc Sulfate Monohydrate
No confirmed human carcinogenicity by IARC	Not classifiable based on IARC, ACGIH, or NTP classification	Rat(oral) Carcinogenic No confirmed human carcinogenicity by IARC	No confirmed human carcinogenicity by IARC	No confirmed human carcinogenicity by IARC

Reproductive Toxicity

Molasses	Biotin	Cobalt Sulfate Heptahydrate	Copper Sulfate Pentahydrate	Ferrous Sulfate Heptahydrate	Phosphoric Acid
No data	No data	Presumed human reproductive toxicant	No data	No data	No data

Potassium Iodide	Sodium Selenite	Vitamin A	Vitamin E	Zinc Sulfate Monohydrate
Excessive exposure during pregnancy may produce fetal hypothyroidism	No data	Damage to fetus possible Presumed human reproductive toxicant	No data	No data

Specific Target Organ Toxicity – Single Exposure

Molasses	Biotin	Cobalt Sulfate Heptahydrate	Copper Sulfate Pentahydrate	Ferrous Sulfate Heptahydrate	Phosphoric Acid
No data	No data	No data	No data	No data	No data

Potassium Iodide	Sodium Selenite	Vitamin A	Vitamin E	Zinc Sulfate Monohydrate
No data	No data	No data	No data	No data

Specific Target Organ Toxicity – Repeated Exposure

Molasses	Biotin	Cobalt Sulfate Heptahydrate	Copper Sulfate Pentahydrate	Ferrous Sulfate Heptahydrate	Phosphoric Acid
No data	No data	No data	No data	No data	No data

Potassium Iodide	Sodium Selenite	Vitamin A	Vitamin E	Zinc Sulfate Monohydrate
No data	No data	No data	No data	No data

Aspiration Hazard

Molasses	Biotin	Cobalt Sulfate Heptahydrate	Copper Sulfate Pentahydrate	Ferrous Sulfate Heptahydrate	Phosphoric Acid
No data	No data	No data	No data	No data	No data

Potassium Iodide	Sodium Selenite	Vitamin A	Vitamin E	Zinc Sulfate Monohydrate
No data	No data	No data	No data	No data

Additional Information

Molasses	Biotin	Cobalt Sulfate Heptahydrate	Copper Sulfate Pentahydrate	Ferrous Sulfate Heptahydrate	Phosphoric Acid
Hyperglycemia risk for diabetics	Toxicological properties have not been thoroughly investigated	Toxicological properties have not been thoroughly investigated	Toxicological properties have not been thoroughly investigated	Toxicological properties have not been thoroughly investigated	High concentrations will injure mucous membranes, respiratory tract, skin and eyes due to high acidity

Potassium Iodide	Sodium Selenite	Vitamin A	Vitamin E	Zinc Sulfate Monohydrate
Prolonged exposure to iodides may produce iodism in sensitive individuals	Salivation, tremors, alopecia, vomiting, dermatitis	Acute intoxication may occur with exposure to high concentrations Congenital abnormalities may occur after exposure to high concentrations during pregnancy	Rat Repeated Gavage NOEL 500mg/kg	Toxicological properties have not been thoroughly investigated

Section 12 ECOLOGICAL INFORMATION

Ecological information of ingredients (listed in Section 3):

Toxicity

Molasses	Biotin	Cobalt Sulfate Heptahydrate	Copper Sulfate Pentahydrate	Ferrous Sulfate Heptahydrate	Phosphoric Acid
No data	No data	No data	Daphnia EC50 48h 0.024mg/l	No data	No data

Potassium Iodide	Sodium Selenite	Vitamin A	Vitamin E	Zinc Sulfate Monohydrate
Daphnia EC50 24h 2.7mg/l Oncorhynchus mykiss LC50 96h 2190mg/l	Daphnia LC50 48h 0.25mg/l Oncorhynchus mykiss LC50 96h 2.76mg/l	No data	Daphnia LC50 48h >500 mg/l Trout LC50 96h 100mg/l	Fish LC50 96h 1 to 10mg/l

Persistence and Degradability

Molasses	Biotin	Cobalt Sulfate Heptahydrate	Copper Sulfate Pentahydrate	Ferrous Sulfate Heptahydrate	Phosphoric Acid
No data	No data	Not readily biodegradable	No data	No data	No data

Potassium Iodide	Sodium Selenite	Vitamin A	Vitamin E	Zinc Sulfate Monohydrate
No data	No data	Biodegradable	Biodegradable	No data

Bioaccumulative Potential

Molasses	Biotin	Cobalt Sulfate Heptahydrate	Copper Sulfate Pentahydrate	Ferrous Sulfate Heptahydrate	Phosphoric Acid
No data	No data	No data	No data	No data	No data

Potassium Iodide	Sodium Selenite	Vitamin A	Vitamin E	Zinc Sulfate Monohydrate
No data	Lepomis macrochirus 120d 10ug/l; BCF 1850	No data	No data	No data

Mobility in Soil

Molasses	Biotin	Cobalt Sulfate Heptahydrate	Copper Sulfate Pentahydrate	Ferrous Sulfate Heptahydrate	Phosphoric Acid
No data	No data	No data	No data	No data	No data

Potassium Iodide	Sodium Selenite	Vitamin A	Vitamin E	Zinc Sulfate Monohydrate
No data	No data	No data	No data	No data

Results of PBT and vPvB Assessment

Molasses	Biotin	Cobalt Sulfate Heptahydrate	Copper Sulfate Pentahydrate	Ferrous Sulfate Heptahydrate	Phosphoric Acid
No data	No data	No data	No data	No data	No data

Potassium Iodide	Sodium Selenite	Vitamin A	Vitamin E	Zinc Sulfate Monohydrate
No data	No data	No data	No data	No data

Other Adverse Effects

Molasses	Biotin	Cobalt Sulfate Heptahydrate	Copper Sulfate Pentahydrate	Ferrous Sulfate Heptahydrate	Phosphoric Acid
No data	No data	Very toxic to aquatic life	Very toxic to aquatic life	No data	High concentrations will injure aquatic life due to acidity

Potassium Iodide	Sodium Selenite	Vitamin A	Vitamin E	Zinc Sulfate Monohydrate
No data	Very toxic to aquatic life	No data	No data	Very toxic to aquatic life

Section 13 DISPOSAL CONSIDERATIONS

Recycle where possible.

Offer surplus or unusable or waste material to a licenced Composter or Waste Management Company for disposal.

Section 14 TRANSPORT INFORMATION

UN Number: NONE
UN Proper Shipping Name: NONE
Transport Hazard Classes: NONE (ADG7)
Packaging Group: NONE

Section 15 REGULATORY INFORMATION

Standard for the Uniform Scheduling of Drugs and Poisons: NONE

Section 16 OTHER INFORMATION

SDS Document Title: Safety Data Sheet-EQUILIQ_V2_14Sept2014
SDS Version: 2
Date of issue: 14 September 2014

This document supersedes and replaces all previous Versions and revisions of the SDS.

Poisons Information Centre: 13 11 26

In case of Emergency, phone: 000