Issue Date: 19/05/2020 Print Date: 20/05/2020





# **Troy Behave Equine Tryptophan and Vitamin Supplement Paste**

### **Troy Laboratories Pty Ltd**

Chemwatch Hazard Alert Code: 2

Chemwatch: 5401-41 Version No: 3.1.1.1

Safety Data Sheet according to WHS and ADG requirements

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

### **Product Identifier**

| Product name                  | Troy Behave Equine Tryptophan and Vitamin Supplement Paste |  |
|-------------------------------|--|--|
| Synonyms                      | APVMA number: 62502  |  |
| Other means of identification | Not Available  |  |
| Other means of identification | Not Available  |  |

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

Relevant identified uses Contains tryptophan and vitamin B1 which may assist in calming nervous or excitable horses. To be used as directed on product label.

### Details of the supplier of the safety data sheet

| Registered company name | Troy Laboratories Pty Ltd                          |  |
|-------------------------|--|--|
| Address                 | 37 Glendenning Road Glendenning NSW 2761 Australia |  |
| Telephone               | 2 8808 3600  |  |
| Fax                     | 02 9677 9300                                       |  |
| Website                 | www.Troylab.com.au                                 |  |
| Email                   | admin@troylab.com.au                               |  |

## Emergency telephone number

| Association / Organisation        | Troy Laboratories Pty Ltd                              |  |
|-----------------------------------|--|--|
| Emergency telephone numbers       | 8808 3600 (Office hours (8am – 4pm, Monday to Friday)) |  |
| Other emergency telephone numbers | Not Available  |  |

## **SECTION 2 HAZARDS IDENTIFICATION**

### Classification of the substance or mixture

| Poisons Schedule   | Not Applicable  |  |
|--------------------|---|--|
| Classification [1] | Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Germ cell mutagenicity Category 2                                 |  |
| Legend:            | 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI |  |

# Label elements

Hazard pictogram(s)





| SIGNAL WORD | WARNING |
|-------------|---------|
|-------------|---------|

## Hazard statement(s)

| H315 | Causes skin irritation.               |
|------|---------------------------------------|
| H319 | Causes serious eye irritation.        |
| H341 | Suspected of causing genetic defects. |

# Precautionary statement(s) Prevention

| P201  | Obtain special instructions before use.        |  |
|---|--|--|
| P281  | Use personal protective equipment as required. |  |
| P280 Wear protective gloves/protective clothing/eye protection/face protection. |  |  |

## Precautionary statement(s) Response

| P308+P313 | IF exposed or concerned: Get medical advice/attention. |
|-----------|--|
|-----------|--|

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| P321           | Specific treatment (see advice on this label).   |  |
|----------------|--|--|
| P362           | Take off contaminated clothing and wash before reuse.  |  |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |  |
| P337+P313      | If eye irritation persists: Get medical advice/attention.  |  |
| P302+P352      | IF ON SKIN: Wash with plenty of water.   |  |
| P332+P313      | If skin irritation occurs: Get medical advice/attention.   |  |

## Precautionary statement(s) Storage

P405 Store locked up.

### Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

### **SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

#### Substances

See section below for composition of Mixtures

### Mixtures

| CAS No        | %[weight] | Name                                       |
|---------------|-----------|--|
| 73-22-3       | 30-60     | l-tryptophan                               |
| 134-03-2      | 10-30     | sodium ascorbate                           |
| 98-92-0       | 1-10      | niacinamide                                |
| 67-03-8       | 1-10      | thiamine hydrochloride                     |
| 83-88-5       | 1-10      | riboflavin                                 |
| 58-56-0       | 1-10      | pyridoxine hydrochloride                   |
| Not Available | balance   | Ingredients determined not to be hazardous |

# **SECTION 4 FIRST AID MEASURES**

## Description of first aid measures

| Eye Contact  | If this product comes in contact with the eyes:  • Wash out immediately with fresh running water.  • Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.  • Seek medical attention without delay; if pain persists or recurs seek medical attention.  • Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. |  |
|--------------|---|--|
| Skin Contact | If skin contact occurs:  Immediately remove all contaminated clothing, including footwear.  Flush skin and hair with running water (and soap if available).  Seek medical attention in event of irritation.   |  |
| Inhalation   | <ul> <li>If dust is inhaled, remove from contaminated area.</li> <li>Encourage patient to blow nose to ensure clear passage of breathing.</li> <li>If irritation or discomfort persists seek medical attention.</li> </ul>  |  |
| Ingestion    | <ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>   |  |

## Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

citing from :

MARTINDALE: The Extra Pharmacopoeia, 27th Ed.

# **SECTION 5 FIREFIGHTING MEASURES**

### **Extinguishing media**

The product contains a substantial proportion of water, therefore there are no restrictions on the type of extinguishing media which may be used. Choice of extinguishing media should take into account surrounding areas

Though the material is non-combustible, evaporation of water from the mixture, caused by the heat of nearby fire, may produce floating layers of combustible substances.

In such an event consider:

- ▶ foam.
- dry chemical powder.
- carbon dioxide.

### Special hazards arising from the substrate or mixture

Fire Incompatibility None known.

# Advice for firefighters

Fire Fighting

- ▶ Alert Fire Brigade and tell them location and nature of hazard.
- ▶ Wear breathing apparatus plus protective gloves in the event of a fire.
- ▶ Prevent, by any means available, spillage from entering drains or water courses.

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|                       | <ul> <li>Use fire fighting procedures suitable for surrounding area.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> <li>Equipment should be thoroughly decontaminated after use.</li> </ul>   |
|-----------------------|--|
| Fire/Explosion Hazard | <ul> <li>Non combustible.</li> <li>Not considered to be a significant fire risk.</li> <li>Expansion or decomposition on heating may lead to violent rupture of containers.</li> <li>Decomposes on heating and may produce toxic fumes of carbon monoxide (CO).</li> <li>May emit acrid smoke.</li> <li>carbon dioxide (CO2)</li> <li>nitrogen oxides (NOx)</li> <li>other pyrolysis products typical of burning organic material.</li> <li>May emit poisonous fumes.</li> <li>May emit corrosive fumes.</li> </ul> |
| HAZCHEM               | Not Applicable   |

# **SECTION 6 ACCIDENTAL RELEASE MEASURES**

## Personal precautions, protective equipment and emergency procedures

See section 8

## **Environmental precautions**

See section 12

# Methods and material for containment and cleaning up

| wethous and material for containment and occurring up |  |  |
|---|--|--|
| Minor Spills  | <ul> <li>Clean up all spills immediately.</li> <li>Avoid contact with skin and eyes.</li> <li>Wear impervious gloves and safety goggles.</li> <li>Trowel up/scrape up.</li> <li>Place spilled material in clean, dry, sealed container.</li> <li>Flush spill area with water.</li> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> <li>Wipe up.</li> <li>Place in a suitable, labelled container for waste disposal.</li> </ul> |  |
| Major Spills  | Minor hazard.  Clear area of personnel.  Alert Fire Brigade and tell them location and nature of hazard.  Control personal contact with the substance, by using protective equipment as required.  Prevent spillage from entering drains or water ways.  Contain spill with sand, earth or vermiculite.  Collect recoverable product into labelled containers for recycling.  Absorb remaining product with sand, earth or vermiculite and place in appropriate containers for disposal.  Wash area and prevent runoff into drains or waterways.  If contamination of drains or waterways occurs, advise emergency services.                                       |  |

Personal Protective Equipment advice is contained in Section 8 of the SDS.

# **SECTION 7 HANDLING AND STORAGE**

# Precautions for safe handling

| Safe handling     | <ul> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> <li>DO NOT enter confined spaces until atmosphere has been checked.</li> <li>DO NOT allow material to contact humans, exposed food or food utensils.</li> <li>Avoid contact with incompatible materials.</li> <li>When handling, DO NOT eat, drink or smoke.</li> <li>Keep containers securely sealed when not in use.</li> <li>Avoid physical damage to containers.</li> <li>Always wash hands with soap and water after handling.</li> <li>Work clothes should be laundered separately. Launder contaminated clothing before re-use.</li> <li>Use good occupational work practice.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.</li> </ul> |
|-------------------|---|
| Other information | <ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry, well-ventilated area.</li> <li>Store away from incompatible materials and foodstuff containers.</li> <li>Protect containers against physical damage and check regularly for leaks.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul>   |

# Conditions for safe storage, including any incompatibilities

### Suitable container

- ► Glass container is suitable for laboratory quantities
- Polyethylene or polypropylene container.
   Packing as recommended by manufacturer.

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Storage incompatibility

- ▶ Check all containers are clearly labelled and free from leaks.
- ▶ Avoid strong acids, bases
- ► Avoid reaction with oxidising agents

### **SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

### **Control parameters**

### OCCUPATIONAL EXPOSURE LIMITS (OEL)

### INGREDIENT DATA

Not Available

### EMERGENCY LIMITS

| Ingredient               | Material name | TEEL-1        | TEEL-2       | TEEL-3                |  |
|--------------------------|---------------|---------------|--------------|-----------------------|--|
| niacinamide              | Nicotinamide  | 5.6 mg/m3     | 62 mg/m3     | 690 mg/m3             |  |
| Ingredient               | Original IDLH |               | Revised IDLH |                       |  |
| I-tryptophan             | Not Available | Not Available |              | Not Available         |  |
| sodium ascorbate         | Not Available | Not Available |              | Not Available         |  |
| niacinamide              | Not Available | Not Available |              | Not Available         |  |
| thiamine hydrochloride   | Not Available | Not Available |              | ailable Not Available |  |
| riboflavin               | Not Available | Not Available |              |                       |  |
| pyridoxine hydrochloride | Not Available | Not Available |              |                       |  |

#### OCCUPATIONAL EXPOSURE BANDING

| Ingredient               | Occupational Exposure Band Rating  | Occupational Exposure Band Limit |  |
|--------------------------|--|----------------------------------|--|
| sodium ascorbate         | D  | > 0.01 to ≤ 0.1 mg/m³            |  |
| niacinamide              | E  | ≤ 0.01 mg/m³                     |  |
| thiamine hydrochloride   | E  | ≤ 0.01 mg/m³                     |  |
| riboflavin               | E  | ≤ 0.01 mg/m³                     |  |
| pyridoxine hydrochloride | Е  | ≤ 0.01 mg/m³                     |  |
| Notes:                   | Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health. |                                  |  |

### MATERIAL DATA

### **Exposure controls**

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.

Employers may need to use multiple types of controls to prevent employee overexposure

Local exhaust ventilation usually required. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection. Supplied-air type respirator may be required in special circumstances. Correct fit is essential to ensure adequate protection. An approved self contained breathing apparatus (SCBA) may be required in some situations.

Provide adequate ventilation in warehouse or closed storage area. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

| Appropriate engineering |  |
|-------------------------|--|
| controls                |  |

| · ·   |                                 |
|---|---------------------------------|
| solvent, vapours, degreasing etc., evaporating from tank (in still air).  | 0.25-0.5 m/s<br>(50-100 f/min.) |
| aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation) | 0.5-1 m/s (100-200 f/min.)      |
| direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)  | 1-2.5 m/s (200-500 f/min.)      |
| grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion).  | 2.5-10 m/s<br>(500-2000 f/min.) |

Within each range the appropriate value depends on:

Type of Contaminant:

| Lower end of the range                                     | Upper end of the range           |
|--|----------------------------------|
| 1: Room air currents minimal or favourable to capture      | 1: Disturbing room air currents  |
| 2: Contaminants of low toxicity or of nuisance value only. | 2: Contaminants of high toxicity |
| 3: Intermittent, low production.                           | 3: High production, heavy use    |
| 4: Large hood or large air mass in motion                  | 4: Small hood-local control only |

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or

Air Speed:

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more when extraction systems are installed or used Personal protection Safety glasses with side shields. Chemical goggles ▶ Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption Eye and face protection and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent] Skin protection See Hand protection below ► Wear chemical protective gloves, e.g. PVC. ▶ Wear safety footwear or safety gumboots, e.g. Rubber NOTE: Hands/feet protection Fig. The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact. Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed. **Body protection** See Other protection below Overalls. ► P.V.C. apron Other protection ► Barrier cream. Skin cleansing cream.

#### Recommended material(s)

#### GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

### "Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

Eye wash unit.

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| Material       | СРІ |
|----------------|-----|
| BUTYL          | С   |
| NATURAL RUBBER | С   |
| NEOPRENE       | С   |
| PE/EVAL/PE     | С   |
| PVA            | С   |
| VITON          | С   |

- \* CPI Chemwatch Performance Index
- A: Best Selection
- B: Satisfactory; may degrade after 4 hours continuous immersion
- C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation.

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

### Respiratory protection

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

| Required minimum protection factor | Maximum gas/vapour concentration present in air p.p.m. (by volume) | Half-face<br>Respirator | Full-Face<br>Respirator |
|------------------------------------|--|-------------------------|-------------------------|
| up to 10                           | 1000   | A-AUS /<br>Class1 P2    | -                       |
| up to 50                           | 1000   | -                       | A-AUS /<br>Class 1 P2   |
| up to 50                           | 5000   | Airline *               | -                       |
| up to 100                          | 5000   | -                       | A-2 P2                  |
| up to 100                          | 10000  | -                       | A-3 P2                  |
| 100+                               |  |                         | Airline**               |

- \* Continuous Flow \*\* Continuous-flow or positive pressure demand A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)
  - Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
  - The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
  - Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

# **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

### Information on basic physical and chemical properties

|                 | <u>'</u>   |   |                |
|-----------------|--|---|----------------|
| Appearance      | Brown thick smooth paste with caramel odour; mixes with water. |   |                |
|                 |  |   |                |
| Physical state  | Non Slump Paste  | Relative density (Water = 1)            | 1.118          |
| Odour           | Not Available  | Partition coefficient n-octanol / water | Not Available  |
| Odour threshold | Not Available  | Auto-ignition temperature (°C)          | Not Applicable |

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| pH (as supplied)                             | Not Available  | Decomposition temperature        | Not Available  |
|--|----------------|----------------------------------|----------------|
| Melting point / freezing point (°C)          | Not Available  | Viscosity (cSt)                  | Not Available  |
| Initial boiling point and boiling range (°C) | Not Available  | Molecular weight (g/mol)         | Not Applicable |
| Flash point (°C)                             | Not Applicable | Taste                            | Not Available  |
| Evaporation rate                             | Not Available  | Explosive properties             | Not Available  |
| Flammability                                 | Not Applicable | Oxidising properties             | Not Available  |
| Upper Explosive Limit (%)                    | Not Applicable | Surface Tension (dyn/cm or mN/m) | Not Available  |
| Lower Explosive Limit (%)                    | Not Applicable | Volatile Component (%vol)        | Not Available  |
| Vapour pressure (kPa)                        | Not Available  | Gas group                        | Not Available  |
| Solubility in water                          | Miscible       | pH as a solution (1%)            | Not Available  |
| Vapour density (Air = 1)                     | Not Available  | VOC g/L                          | Not Available  |

# **SECTION 10 STABILITY AND REACTIVITY**

| Reactivity                         | See section 7  |  |
|------------------------------------|--|--|
| Chemical stability                 | <ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul> |  |
| Possibility of hazardous reactions | See section 7  |  |
| Conditions to avoid                | See section 7  |  |
| Incompatible materials             | tible materials See section 7  |  |
| Hazardous decomposition products   | See section 5  |  |

# **SECTION 11 TOXICOLOGICAL INFORMATION**

# Information on toxicological effects

| Inhaled                                    | The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.  Not normally a hazard due to non-volatile nature of product   |   |  |
|--|--|---|--|
| Ingestion                                  | The material has <b>NOT</b> been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. The material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality rather than those producing morbidity (disease, ill-health). Gastrointestinal tract discomfort may produce nausea and vomiting. In an occupational setting however, ingestion of insignificant quantities is not thought to be cause for concern. |   |  |
| Skin Contact                               | following direct contact, and/or produces significant inflan inflammation being present twenty-four hours or more after repeated exposure; this may result in a form of contact de and swelling (oedema) which may progress to blistering (may be intercellular oedema of the spongy layer of the sk The material may accentuate any pre-existing dermatitis open cuts, abraded or irritated skin should not be expose   | ed to this material<br>orasions, puncture wounds or lesions, may produce systemic injury with harmful effects   |  |
| Еуе  | Evidence exists, or practical experience predicts, that the material may cause eye irritation in a substantial number of individuals and/or may produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals. Repeated or prolonged eye contact may cause inflammation characterised by temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur.   |   |  |
| Chronic                                    | Exposure to the material may cause concerns for human the absence of toxic effects, or evidence of impaired fertil secondary non-specific consequence of other toxic effect.  On the basis, primarily, of animal experiments, concern he carcinogenic or mutagenic effects; in respect of the available satisfactory assessment.   | as been expressed by at least one classification body that the material may produce able information, however, there presently exists inadequate data for making a twith the material is capable either of inducing a sensitisation reaction in a significant |  |
| Troy Behave Equine                         | TOXICITY   | IRRITATION  |  |
| Tryptophan and Vitamin<br>Supplement Paste | Not Available  | Not Available   |  |
|  | TOXICITY   | IRRITATION  |  |
| l-tryptophan                               | Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup>  | Eye: no adverse effect observed (not irritating) <sup>[1]</sup>   |  |
|  |  | Skin: no adverse effect observed (not irritating) <sup>[1]</sup>  |  |

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| Respiratory or Skin<br>sensitisation  | ×   | STOT - Repeated Exposure   | ×  |
|---|---|--|--|
| Serious Eye Damage/Irritation   | <b>~</b>  | STOT - Single Exposure   | ×  |
| Skin Irritation/Corrosion   | <b>Y</b>  | Reproductivity   | ×  |
| Acute Toxicity  | ×   | Carcinogenicity  | ×  |
|   | irritating inhalation is an infrequent disorder with rates rela<br>Industrial bronchitis, on the other hand, is a disorder that or<br>particulate in nature) and is completely reversible after exp<br>production.  | occurs as result of exposure due to cosure ceases. The disorder is char  | high concentrations of irritating substance (often racterised by dyspnea, cough and mucus  |
| NIACINAMIDE & THIAMINE<br>HYDROCHLORIDE &<br>RIBOFLAVIN & PYRIDOXINE<br>HYDROCHLORIDE | Asthma-like symptoms may continue for months or even y condition known as reactive airways dysfunction syndrom compound. Key criteria for the diagnosis of RADS include onset of persistent asthma-like symptoms within minutes t spirometry, with the presence of moderate to severe brond lymphocytic inflammation, without eosinophilia, have also | e (RADS) which can occur following<br>the absence of preceding respirato<br>o hours of a documented exposure<br>chial hyperreactivity on methacholin<br>been included in the criteria for diag | g exposure to high levels of highly irritating<br>ry disease, in a non-atopic individual, with abrupt<br>to the irritant. A reversible airflow pattern, on<br>e challenge testing and the lack of minimal<br>gnosis of RADS. RADS (or asthma) following an |
| RIBOFLAVIN  | Hamster cell mutagen. * BASF MSDS   |  |  |
| NIACINAMIDE   | The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.  Mutation in microorganisms   |  |  |
| SODIUM ASCORBATE  | NOTE: Substance has been shown to be mutagenic in at least one assay, or belongs to a family of chemicals producing damage or change to cellular DNA.   |  |  |
| L-TRYPTOPHAN  | Human lymphocyte mutagen Reproductive effector in rat E   | Equivocal tumorigen by RTECS crite   | eria.  |
| Legend:   | Value obtained from Europe ECHA Registered Substarspecified data extracted from RTECS - Register of Toxic E   |  | ned from manufacturer's SDS. Unless otherwise  |
|   | Skin: no adverse effect observed (not irritating) <sup>[1]</sup>  |  |  |
| pyridoxine hydrochloride  | Oral (rat) LD50: 4000 mg/kg <sup>[2]</sup>  | 1  | ct observed (irritating) <sup>[1]</sup>  |
|   | TOXICITY  | IRRITATION   |  |
|   |   | Skin (rabit): non-ir   | ritant (Draize) *  |
| riboflavin  | Oral (rat) LD50: >10000 mg/kg <sup>[2]</sup>  | Eye (rabbit): non-ii   | rritant (Draize) *   |
|   | TOXICITY  | IRRITATION   |  |
|   |   | Skin: no adverse e   | effect observed (not irritating) <sup>[1]</sup>  |
| thiamine hydrochloride  | Oral (rat) LD50: 3710 mg/kg <sup>[2]</sup>  | Eye: adverse effec   | ct observed (irritating) <sup>[1]</sup>  |
|   | TOXICITY  | IRRITATION   |  |
|   | Oral (rat) LD50: >2500 mg/kg <sup>[1]</sup>   |  |  |
| niacinamide   | Dermal (rabbit) LD50: >2000 mg/kg <sup>[2]</sup>  | Not Available  |  |
|   | TOXICITY  | IRRITATION   |  |
|   |   | Skin: no adverse e   | effect observed (not irritating) <sup>[1]</sup>  |
| sodium ascorbate  | Oral (rat) LD50: 16300 mg/kg <sup>[2]</sup>   | 1  | ffect observed (not irritating) <sup>[1]</sup>   |
|   |   |  |  |

Legend:

X − Data either not available or does not fill the criteria for classification
 ✓ − Data available to make classification

# **SECTION 12 ECOLOGICAL INFORMATION**

# Toxicity

| Troy Behave Equine                         | ENDPOINT         | TEST DURATION (HR) | SPECIES                       | VALUE            | SOURCE           |
|--|------------------|--------------------|-------------------------------|------------------|------------------|
| Tryptophan and Vitamin<br>Supplement Paste | Not<br>Available | Not Available      | Not Available                 | Not<br>Available | Not<br>Available |
| l-tryptophan                               | ENDPOINT         | TEST DURATION (HR) | SPECIES                       | VALUE            | SOURC            |
|  | LC50             | 96                 | Fish                          | >850mg/L         | 2                |
|  | EC50             | 48                 | Crustacea                     | >100mg/L         | 2                |
|  | EC50             | 72                 | Algae or other aquatic plants | >84.8mg/L        | 2                |
|  | NOEC             | 72                 | Algae or other aquatic plants | 84.8mg/L         | 2                |
| sodium ascorbate                           | ENDPOINT         | TEST DURATION (HR) | SPECIES                       | VALUE            | SOURC            |
|  | LC50             | 96                 | Fish                          | 1-20mg/L         | 2                |

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|                          | EC50           | 48                                     | Crustacea   |                                      | 74mg/L        | 2      |
|--------------------------|----------------|--|---|--------------------------------------|---------------|--------|
|                          | EC50           | 72                                     | Algae or other aquatic plants   | 1                                    | >74mg/L       | 2      |
|                          | NOEC           | 72                                     | Algae or other aquatic plants   | 1                                    | >=74mg/L      | 2      |
|                          | ENDPOINT       | TEST DURATION (HR)                     | SPECIES   | VA                                   | LUE           | SOURCE |
|                          | LC50           | 96                                     | Fish  | >1-                                  | >1-mg/L       |        |
| niacinamide              | EC50           | 96                                     | Algae or other aquatic plants   | 893                                  | 8934.353mg/L  |        |
|                          | NOEC           | 24                                     | Crustacea   | 1-n                                  | ng/L          | 2      |
|                          | ENDPOINT       | TEST DURATION (HR)                     | SPECIES   | VAL                                  | .UE           | SOURCE |
|                          | LC50           | 96                                     | Fish  | 4976                                 | 49761.625mg/L |        |
| thiamine hydrochloride   | EC50           | 48                                     | Crustacea   | >100                                 | >100mg/L      |        |
|                          | EC50           | 72                                     | Algae or other aquatic plants   | >100                                 | >100mg/L      |        |
|                          | NOEC           | 48                                     | Crustacea   | 58m                                  | ıg/L          | 2      |
|                          | ENDPOINT       | TEST DURATION (HR)                     | SPECIES   | VAL                                  | UE            | SOURCE |
| riboflavin               | LC50           | 96                                     | Fish  | 42620.367mg/L                        |               | 3      |
|                          | ENDPOINT       | TEST DURATION (HR)                     | SPECIES   |                                      | VALUE         | SOURCE |
|                          | LC50           | 96                                     | Fish  | Fish >100mg/L                        |               | 2      |
| pyridoxine hydrochloride | EC50           | 48                                     | Crustacea   | Crustacea >100mg/L                   |               | 2      |
|                          | EC50           | 72                                     | Algae or other aquatic plants   | Algae or other aquatic plants 72mg/L |               | 2      |
|                          | EC10           | 72                                     | Algae or other aquatic plants   | i                                    | 3.3mg/L       | 2      |
| Legend:                  | V3.12 (QSAR) - | Aquatic Toxicity Data (Estimated) 4. U | AA Registered Substances - Ecotoxicological Inform<br>IS EPA, Ecotox database - Aquatic Toxicity Data 5<br>( (Japan) - Bioconcentration Data 8. Vendor Data |                                      |               |        |

## DO NOT discharge into sewer or waterways.

# Persistence and degradability

| Ingredient               | Persistence: Water/Soil | Persistence: Air |
|--------------------------|-------------------------|------------------|
| I-tryptophan             | HIGH                    | HIGH             |
| niacinamide              | HIGH                    | HIGH             |
| thiamine hydrochloride   | HIGH                    | HIGH             |
| riboflavin               | HIGH                    | HIGH             |
| pyridoxine hydrochloride | LOW                     | LOW              |

### **Bioaccumulative potential**

| Disabounidative potential |                        |  |
|---------------------------|------------------------|--|
| Ingredient                | Bioaccumulation        |  |
| I-tryptophan              | LOW (LogKOW = -1.06)   |  |
| niacinamide               | LOW (LogKOW = -0.37)   |  |
| thiamine hydrochloride    | LOW (LogKOW = -1.7773) |  |
| riboflavin                | LOW (LogKOW = -1.46)   |  |
| pyridoxine hydrochloride  | LOW (LogKOW = -0.557)  |  |

# Mobility in soil

| Ingredient               | Mobility          |
|--------------------------|-------------------|
| I-tryptophan             | LOW (KOC = 368.7) |
| niacinamide              | LOW (KOC = 51.56) |
| thiamine hydrochloride   | LOW (KOC = 87.51) |
| riboflavin               | LOW (KOC = 325.8) |
| pyridoxine hydrochloride | LOW (KOC = 10)    |

## **SECTION 13 DISPOSAL CONSIDERATIONS**

# Waste treatment methods

Product / Packaging disposal

- ▶ Recycle wherever possible or consult manufacturer for recycling options.
- ► Consult State Land Waste Authority for disposal.
- ▶ Bury or incinerate residue at an approved site.
- ▶ Recycle containers if possible, or dispose of in an authorised landfill.

## **SECTION 14 TRANSPORT INFORMATION**

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### **Labels Required**

| Marine Pollutant | NO             |
|------------------|----------------|
| HAZCHEM          | Not Applicable |

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

### **SECTION 15 REGULATORY INFORMATION**

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

L-TRYPTOPHAN IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule  $\bf 4$ 

SODIUM ASCORBATE IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

NIACINAMIDE IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule  ${\bf 3}$ 

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule  $\bf 4$ 

THIAMINE HYDROCHLORIDE IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

RIBOFLAVIN IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

PYRIDOXINE HYDROCHLORIDE IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4

# **National Inventory Status**

| National Inventory            | Status  |
|-------------------------------|---|
| Australia - AICS              | Yes   |
| Canada - DSL                  | Yes   |
| Canada - NDSL                 | No (I-tryptophan; sodium ascorbate; niacinamide; thiamine hydrochloride; riboflavin; pyridoxine hydrochloride)  |
| China - IECSC                 | No (thiamine hydrochloride)   |
| Europe - EINEC / ELINCS / NLP | Yes   |
| Japan - ENCS                  | No (sodium ascorbate; thiamine hydrochloride; pyridoxine hydrochloride)   |
| Korea - KECI                  | Yes   |
| New Zealand - NZIoC           | Yes   |
| Philippines - PICCS           | Yes   |
| USA - TSCA                    | Yes   |
| Taiwan - TCSI                 | Yes   |
| Mexico - INSQ                 | Yes   |
| Vietnam - NCI                 | Yes   |
| Russia - ARIPS                | No (I-tryptophan)   |
| Legend:                       | Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets) |

### **SECTION 16 OTHER INFORMATION**

| Revision Date | 19/05/2020 |
|---------------|------------|
| Initial Date  | 14/05/2020 |

## **SDS Version Summary**

| Version | Issue Date | Sections Updated            |
|---------|------------|-----------------------------|
| 3.1.1.1 | 19/05/2020 | Classification, Ingredients |

### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification

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committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

#### **Definitions and abbreviations**

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index

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TEL (+61 3) 9572 4700.