

SAFETY DATA SHEET



HD PROTEIN SPOTTER

ABERFORD HOLDINGS PTY LTD

Catalogue number: PC496.05

Version No: 2.3

Issue date: 08/05/2023

Safety Data Sheet according to WHS and ADG requirements.

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

Product Identifier

| | |
|-------------------------|--------------------|
| Product name | HD PROTEIN SPOTTER |
| Product code | PC496.05 |
| Pack sizes | 5L |
| UN proper shipping name | ETHANOLAMINE |

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

| | |
|--------------------------|----------------------------------|
| Relevant identified uses | Spotter for protein-based stains |
|--------------------------|----------------------------------|

Details of the supplier of the safety data sheet

| | |
|-------------------------|--|
| Registered company name | ABERFORD HOLDINGS PTY LTD |
| Address | 194D Zillmere Road, Boondall, QLD, 4034 |
| Telephone | 1800 638 639 |
| Website | www.aberfordholdings.com.au |
| Email | enquiry@aberfordholdings.com.au |

Emergency telephone number

| | |
|-----------------------------------|----------------------------|
| Association / Organisation | Poisons Information Centre |
| Emergency telephone numbers | 13 1126 |
| Other emergency telephone numbers | Not Available |

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

| | |
|--------------------|---|
| Poisons Schedule | Not Applicable |
| GHS Classification | Skin Corrosion/Irritation Category 1, Serious Eye Damage Category 1. <i>Classification drawn from HCIS and ECHA C&L Inventory.</i> |

Label elements

| | |
|------------------|---|
| Hazard pictogram | A diamond-shaped hazard pictogram with a red border, showing a hand being corroded by a liquid dripping from a test tube. |
| SIGNAL WORD | DANGER |

Hazard statement(s)

| | |
|------|--|
| H314 | Causes severe skin burns and eye damage. |
|------|--|

Precautionary statement(s) Prevention

| | |
|------|--|
| P280 | Wear protective gloves and eye protection. |
| P260 | Do not breathe mists |
| P264 | Wash exposed skin thoroughly after handling. |

Precautionary statement(s) Response

| | |
|---------------------|--|
| P305+P310+P351+P338 | IF IN EYES: Immediately call a POISON CENTER or doctor. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P303+P310+P361+P353 | IF ON SKIN (or hair): Immediately call a POISON CENTER or doctor. Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| P310+P310+P330+P331 | IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. |
| P304+P310+P340 | IF INHALED: Immediately call a POISON CENTER or doctor. Remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| P363 | Wash contaminated clothing before reuse. |

Precautionary statement(s) Storage

| | |
|------|------------------|
| P405 | Store locked up. |
|------|------------------|

Precautionary statement(s) Disposal

| | |
|------|---|
| P501 | Dispose of contents/container in accordance with local regulations. |
|------|---|

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

| CAS No | %[weight] | Name |
|--------------|-----------|--|
| 141-43-5 | <10 | <u>monoethanolamine</u> |
| 1336-21-6 | <10 | <u>ammonia solution</u> |
| 111-76-2 | <10 | <u>ethylene glycol monobutyl ether</u> |
| 7320-34-5 | <10 | <u>tetrapotassium pyrophosphate</u> |
| 2235-54-3 | <10 | <u>ammonium lauryl sulfate</u> |
| Trade secret | <10 | <u>proprietary surfactant</u> |

SECTION 4 FIRST AID MEASURES

Description of first aid measures

| | |
|---------------------|--|
| Eye Contact | <p>If this product comes in contact with eyes:</p> <p>Obtain medical advice / attention without delay</p> <p>Immediately hold eyelids apart and flush the eye continuously with running water.</p> <p>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.</p> <p>Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.</p> <p>If necessary, transport to hospital or doctor without delay.</p> <p>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</p> |
| Skin Contact | <p>If skin contact occurs:</p> <p>Immediately remove all contaminated clothing, including footwear.</p> <p>Flush skin and hair with running water (and soap if available).</p> <p>Seek medical attention in event of irritation.</p> |
| Inhalation | <p>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</p> <p>Other measures are usually unnecessary.</p> |
| Ingestion | <p>Immediately give a glass of water.</p> <p>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</p> |

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

EYE:

Eye injuries require retraction of the eyelids to ensure thorough irrigation of the conjunctival cul-de-sacs. Irrigation should last at least 20-30 minutes. DO NOT use neutralising agents or any other additives. Several litres of saline are required.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

| | |
|----------------------------|--|
| 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 |
|----------------------------|--|

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 Use firefighting procedures suitable for surrounding area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use. Slight hazard when exposed to heat, flame and oxidisers. |
| Fire/Explosion Hazard | Non-combustible. Not considered to be a significant fire risk. Expansion or decomposition on heating may lead to violent rupture of containers. Decomposes on heating and may produce toxic fumes of carbon monoxide (CO), carbon dioxide (CO2) and other pyrolysis products typical of burning organic material May emit corrosive fumes. |
| HAZCHEM | 2R |

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

| | |
|---------------------|---|
| Minor Spills | Clean up all spills immediately. Avoid contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal. |
| Major Spills | Control personal contact with the substance, by using protective equipment as required. Prevent spillage from entering drains or water ways. Absorb on sand, dirt, vermiculite or similar absorbent material. Place into labelled drums and dispose of according to local government regulations. Immediately notify emergency services (Police or Fire Brigade) if the spill is too large for you to safely and effectively handle. |
| PPE | Personal Protective Equipment advice is contained in Section 8 of the SDS. |

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

| | |
|--------------------------|--|
| Safe handling | Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. DO NOT allow material to contact humans, exposed food or food utensils. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. |
| Other information | Store away from incompatible materials. |

Conditions for safe storage, including any incompatibilities.

| | |
|--------------------------------|---|
| Suitable container | Polyethylene or polypropylene container. Packing as recommended by manufacturer. Check all containers are clearly labelled and free from leaks. |
| Storage incompatibility | None known |

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA



| Source | Ingredient | Material name | TWA | STEL | Peak | Notes |
|------------------------------|---------------------------------|-----------------|---------------------|--------------------|---------------|---------------|
| Australia Exposure Standards | monoethanolamine | ethanolamine | 7.5 mg/m3 / 3 ppm | 15 mg/m3 / 6 ppm | Not Available | Not Available |
| Australia Exposure Standards | ethylene glycol monobutyl ether | 2-Butoxyethanol | 96.9 mg/m3 / 20 ppm | 242 mg/m3 / 50 ppm | Not Available | Sk |

EMERGENCY LIMITS

| Ingredient | Material name | TEEL-1 | TEEL-2 | TEEL-3 |
|---------------------------------|----------------------------|----------|-----------|-------------|
| monoethanolamine | ethanolamine | 6 ppm | 6 ppm | 1,000 ppm |
| ethylene glycol monobutyl ether | 2-Butoxyethanol | 20 ppm | 20 ppm | 700 ppm |
| potassium pyrophosphate | Tetrapotassium diphosphate | 61 mg/m3 | 680 mg/m3 | 1,200 mg/m3 |

| Ingredient | Original IDLH | Revised IDLH |
|---------------------------------|---------------|----------------|
| monoethanolamine | 1,000 ppm | 30 ppm |
| ethylene glycol monobutyl ether | 700 ppm | 700 [Unch] ppm |
| potassium pyrophosphate | Not available | Not available |

Exposure controls

| | |
|---|--|
| Appropriate engineering controls | Maintain adequate ventilation at all times. In most circumstances natural ventilation systems are adequate. If ventilation is poor, then the use of a local exhaust ventilation system is recommended. |
| Personal protection |   |
| Eye and face protection | Safety glasses with side shields OR Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. 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. |
| Skin protection | See Hand protection below |
| Hands/feet protection | Wear chemical protective gloves. Butyl is recommended for this application |
| Body protection | See Other protection below |
| Other protection | Overalls. P.V.C. apron. Barrier cream. Skin cleansing cream. Eye wash unit. |
| Thermal hazards | Not Available |

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | | | |
|---|-------------------|--|---------------|
| Appearance | Clear blue liquid | | |
| Physical state | Liquid | Relative density (Water = 1) | 1.0 |
| Odour | Ammoniacal | Partition coefficient n-octanol / water | Not Available |
| Odour threshold | Not Available | Auto-ignition temperature (°C) | Not Available |
| pH (as supplied) | 11.9 | 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 Available |
| 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 (g/L) | 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 | Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur. |
| Possibility of hazardous reactions | See section 7 |
| Conditions to avoid | See section 7 |
| Incompatible materials | See section 7 |
| Hazardous decomposition products | See section 5 |

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

| | |
|---------------------|---|
| Inhaled | Prolonged or regular minor exposure to the vapour may cause persistent irritation of the eyes, nose and upper respiratory tract. |
| Ingestion | The material has NOT 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. |
| Skin Contact | This material can cause severe skin burns. Skin contact is not thought to have harmful <u>health</u> effects (as classified under EC Directives). Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected. |
| Eye | If applied to the eyes, this material causes severe eye damage. |
| Chronic | No applicable data. |

Toxicological effects of ingredients

| | | |
|--|--------------------------------|---|
| monoethanolamine | Acute toxicity | Oral LD50 (rat) 1089 mg/kg Dermal LD50 (rat) 2504 mg/kg Inhalation LC50 >1300 mg/m3 6h |
| | Skin corrosion/irritation | Causes severe skin burns and eye damage. |
| | Eye damage/irritation | Causes serious eye damage |
| | Respiratory/skin sensitization | No sensitizing effect |
| | Germ cell mutagenicity | The substance was not genotoxic in a test with mammals |
| | Carcinogenicity | Not carcinogenic |
| | Reproductive toxicity | Not classified |
| | STOT (single exposure) | May cause respiratory irritation |
| | STOT (repeated exposure) | The substance may cause damage to the upper respiratory tract after repeated inhalation, as shown in animal studies |
| | Aspiration toxicity | No aspiration hazard expected |
| ethylene glycol monobutyl ether | Acute toxicity | Oral LD50 (guinea pig) 1414 mg/kg Dermal LD50 (guinea pig) >2000 mg/kg Inhalation LC0 >3.1 mg/l/641 ppm 1h |
| | Skin corrosion/irritation | Causes skin irritation. |
| | Eye damage/irritation | Causes serious eye irritation. |
| | Respiratory/skin sensitization | Not classified No study available. |
| | Germ cell mutagenicity | Not classified |
| | Carcinogenicity | Not classified |
| | Reproductive toxicity | Not classified |
| | STOT (single exposure) | High concentrations may cause central nervous system depression |
| | STOT (repeated exposure) | Based on repeated exposure toxicity values, not classified |
| | Aspiration toxicity | Based on physico-chemical values or lack of human evidence. Not classified |
| tetrapotassium pyrophosphate | Acute toxicity | Oral LD50 (rabbit) >1000 mg/kg Dermal LD50 (rabbit) >4640 mg/kg |
| | Skin corrosion/irritation | Causes skin irritation. Irritation is likely to be more severe if the skin is moist or wet |
| | Eye damage/irritation | Causes serious eye irritation |
| | Respiratory/skin sensitization | EU/CLP • Classification criteria not met |
| | Germ cell mutagenicity | EU/CLP • Classification criteria not met |
| | Carcinogenicity | Does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens |
| | Reproductive toxicity | EU/CLP • Classification criteria not met |
| | STOT (single exposure) | EU/CLP • Classification criteria not met |
| | STOT (repeated exposure) | EU/CLP • Classification criteria not met |
| | Aspiration toxicity | EU/CLP • Classification criteria not met |
| ammonium lauryl sulfate | Acute toxicity | no data available |
| | Skin corrosion/irritation | May cause skin irritation |
| | Eye damage/irritation | May cause eye irritation |
| | Respiratory/skin sensitization | no data available |
| | Germ cell mutagenicity | no data available |
| | Carcinogenicity | no data available |
| | Reproductive toxicity | no data available |
| | STOT (single exposure) | no data available |
| | STOT (repeated exposure) | no data available |
| | Aspiration toxicity | no data available |
| proprietary surfactant | Acute toxicity | Oral LD50 (rat) 2546 mg/kg Dermal LD50 (rat) 1844 mg/kg |
| | Skin corrosion/irritation | Causes skin irritation |
| | Eye damage/irritation | Causes serious eye irritation |
| | Respiratory/skin sensitization | Not a skin sensitizer based on components |
| | Germ cell mutagenicity | There is no data available |
| | Carcinogenicity | No components are listed as carcinogens by IARC, ACGIH, OSHA or NTP above the threshold of 0.1% |
| | Reproductive toxicity | There is no data available |
| | STOT (single exposure) | There is no data available |
| | STOT (repeated exposure) | There is no data available |
| | Aspiration toxicity | There is no data available |

| | | |
|------------------|--------------------------------|--|
| ammonia solution | Acute toxicity | Oral LD50 (rat) 350 mg/kg Inhalation (human) 400 - 700 ppm causes severe irritation. 2000 - 3000 ppm may be fatal within 30 minutes. 10,000 ppm is immediately fatal |
| | Skin corrosion/irritation | Contact with skin will result in severe irritation. Corrosive to skin - may cause skin burns. |
| | Eye damage/irritation | Corrosive to eyes; contact can cause corneal burns. Contamination of eyes can result in permanent injury |
| | Respiratory/skin sensitization | No Data Available |
| | Germ cell mutagenicity | No Data Available |
| | Carcinogenicity | No Data Available |
| | Reproductive toxicity | No Data Available |
| | STOT (single exposure) | No Data Available |
| | STOT (repeated exposure) | Repeated or prolonged exposure may result in bronchitis |
| | Aspiration toxicity | No Data Available |

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

| | Endpoint | Duration (Hr.) | Species | Value |
|---------------------------------|-------------------|-------------------|--|-------------------|
| monoethanolamine | LC50 | 96 | Fish | 2-70mg/L |
| | EC50 | 48 | Crustacea | 32.6mg/L |
| | EC50 | 72 | Algae or other aquatic plants | 2.1mg/L |
| | NOEC | 504 | Crustacea | 0.85mg/L |
| ethylene glycol monobutyl ether | LC50 | 96 | Fish | 1-250mg/L |
| | EC50 | 48 | Crustacea | >1-mg/L |
| | EC50 | 96 | Algae or other aquatic plants | >1-mg/L |
| | NOEC | 24 | Crustacea | >1-mg/L |
| potassium pyrophosphate | LC50 | 96 | Fish | >100mg/L |
| | EC50 | 48 | Crustacea | >100mg/L |
| | EC50 | 72 | Algae or other aquatic plants | >100mg/L |
| | NOEC | 72 | Algae or other aquatic plants | >100mg/L |
| ammonium lauryl sulfate | No data available | No data available | No data available | No data available |
| proprietary surfactant | LC50 | 96 | Rainbow trout | 32.15 mg/L |
| ammonia solution | LC50 | 96 | Lepomis macrochirus (Bluegill sunfish) | 0.87 mg/l |
| | LC50 | 96 | Pimephales promelas (fathead minnow) | 1.2 mg/l |
| | EC50 | 48 | Daphnia magna (Water flea), | 0.66 mg/l |

Moderately toxic to fish and aquatic organisms.

DO NOT discharge into sewer or waterways.

Persistence and degradability

| Ingredient | Persistence: Water/Soil | Persistence: Air |
|---------------------------------|---------------------------|-----------------------------|
| monoethanolamine | LOW | LOW |
| ethylene glycol monobutyl ether | LOW (Half-life = 56 days) | LOW (Half-life = 1.37 days) |

Bio accumulative potential

| Ingredient | Bioaccumulation |
|---------------------------------|----------------------|
| monoethanolamine | LOW (LogKOW = -1.31) |
| ethylene glycol monobutyl ether | LOW (BCF = 2.51) |

Mobility in soil

| Ingredient | Mobility |
|---------------------------------|----------------|
| monoethanolamine | HIGH (KOC = 1) |
| ethylene glycol monobutyl ether | HIGH (KOC = 1) |

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

| | |
|------------------------------|---|
| Product / packaging disposal | Dispose of contents/container in accordance with local regulations. |
|------------------------------|---|

SECTION 14 TRANSPORT INFORMATION

Labels Required

| | |
|------------------|----|
| Marine Pollutant | NO |
| HAZCHEM | 2R |

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS WHEN IN PACKS OF 5L OR LESS

SECTION 15 REGULATORY INFORMATION**Safety, health and environmental regulations / legislation specific for the substance or mixture****MONOETHANOLAMINE IS FOUND ON THE FOLLOWING REGULATORY LISTS**

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6
Australian Inventory of Industrial Chemicals (AIIC)

ETHYLENE GLYCOL MONOBUTYL ETHER IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5
Australian Inventory of Industrial Chemicals (AIIC)
International Agency for Research on Cancer (IARC) – Agents classified by AIRC monographs.

POTASSIUM PYROPHOSPHATE IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australian Inventory of Industrial Chemicals (AIIC)

AMMONIUM LAURYL SULFATE IS FOUND ON THE FOLLOWING REGULATORY lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals
Australian Inventory of Industrial Chemicals (AIIC)

AMMONIUM HYDROXIDE IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6
Australian Inventory of Industrial Chemicals (AIIC)

SECTION 16 OTHER INFORMATION**Revision Schedule**

| | |
|----------------------|------------|
| Revision Date | 22/06/2022 |
| Initial Date | 08/12/2016 |

SDS Version Summary

| Version | Issue Date | Sections Updated |
|---------|------------|--|
| 2.1 | 13/04/2021 | Sections 2, 3, 11, 12, 15, 16 have been updated or corrected |
| 2.2 | 22/02/2022 | Section 3 |
| 2.3 | 22/06/2022 | Sections 3, 11, 12, 15. |

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources such as the ECHA C&L Chemical Inventory, HSNO (CCID) New Zealand, AICIS and HCIS Australia

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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 Government Industrial Hygienists |
| STEL; | Short Term Exposure Limit |
| TEEL; | Temporary Emergency Exposure Limit |
| IDLH; | Immediate Danger to Life or Health Concentrations |
| OSF; | Odour Safety Factor |
| NOAEL; | No Observed Effects Level |
| TLV; | Threshold Limit Value |
| LOD; | Limit Of Detection |
| OTV; | Odour Threshold Value |
| BCF; | Bio Concentration Factors |
| BEI; | Biological Exposure Index |

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