SAFETY DATA SHEET



Hyspin AWH 68

Section 1. Identification

| GHS product identifier | Hyspin AWH 68 |
|----------------------------------|--|
| Product code | 450412-AU22 |
| SDS no. | 450412 |
| Relevant identified uses of the | substance or mixture and uses advised against |
| Use of the substance/ mixture | Hydraulic fluid For specific application advice see appropriate Technical Data Sheet or consult our company representative. |
| Manufacturer | |
| Supplier | Castrol Australia Pty Ltd Level 17, 717 Bourke Street Docklands, Victoria 3008 ABN 87 008 459 407 www.castrol.com.au |
| | Tel: +61 (03) 9268 4111 |
| | Fax: +61 (03) 9268 3321 |
| EMERGENCY TELEPHONE NUMBER | +61 2801 44558 (or 1800 14 14 74 within Australia) |
| OTHER PRODUCT INFORMATION | Technical Advice Helpline Number: 1300 557 998 |

Section 2. Hazard(s) identification

| Classification of the substance or mixture | Not classified. |
|---|---|
| GHS label elements | |
| Signal word | No signal word. |
| Hazard statements | No known significant effects or critical hazards. |
| Precautionary statements | |
| Prevention | Not applicable. |
| Response | Not applicable. |
| Storage | Not applicable. |
| Disposal | Not applicable. |
| Supplemental label elements | Not applicable. |
| Other hazards which do not result in classification | Defatting to the skin. Note: High Pressure Applications Injections through the skin resulting from contact with the product at high pressure constitute a major medical emergency. See 'Notes to physician' under First-Aid Measures, Section 4 of this Safety Data Sheet. |

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Section 3. Composition and ingredient information

Mixture

Substance/mixture

Highly refined base oil (IP 346 DMSO extract < 3%). Proprietary performance additives.

| Ingredient name | % (w/w) | CAS number |
|--|-----------|--------------------------------------|
| Base oil - unspecified | ≥30 - ≤60 | Varies - See Key to abbreviations |
| Distillates (petroleum), hydrotreated heavy paraffinic | ≥30 - ≤60 | 64742-54-7 |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

| Description of necessa | iry first aid measures |
|-------------------------------|---|
| Eye contact | In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Get medical attention. |
| Inhalation | If inhaled, remove to fresh air. Get medical attention if symptoms occur. |
| Skin contact | Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur. |
| Ingestion | Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |

Most important symptoms/effects, acute and delayed

See Section 11 for more detailed information on health effects and symptoms. Indication of immediate medical attention and special treatment needed, if necessary Treatment should in general be symptomatic and directed to relieving any effects. Notes to physician Note: High Pressure Applications Injections through the skin resulting from contact with the product at high pressure constitute a major medical emergency. Injuries may not appear serious at first but within a few hours tissue becomes swollen, discoloured and extremely painful with extensive subcutaneous necrosis. Surgical exploration should be undertaken without delay. Thorough and extensive debridement of the wound and underlying tissue is necessary to minimise tissue loss and prevent or limit permanent damage. Note that high pressure may force the product considerable distances along tissue planes. **Specific treatments** No specific treatment. **Protection of first-aiders** No action shall be taken involving any personal risk or without suitable training.

Section 5. Firefighting measures

| Extinguishing media | |
|--|--|
| Suitable extinguishing media | In case of fire, use foam, dry chemical or carbon dioxide extinguisher or spray. |
| Unsuitable extinguishing media | Do not use water jet. |
| Specific hazards arising from the chemical | In a fire or if heated, a pressure increase will occur and the container may burst. |
| Hazardous thermal decomposition products | Combustion products may include the following: carbon oxides (CO, CO ₂) (carbon monoxide, carbon dioxide) |

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Section 5. Firefighting measures

| Special protective actions for fire-fighters | No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. |
|--|--|
| Special protective equipment for fire-fighters | Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. |

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

| For non-emergency personnel | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling. |
|--------------------------------|---|
| For emergency responders | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| Environmental precautions | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| Methods and material for conta | ainment and cleaning up |
| Small spill | Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| Large spill | Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. |

Section 7. Handling and storage

Precautions for safe handling **Protective measures** Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is Advice on general handled, stored and processed. Wash thoroughly after handling. Remove occupational hygiene contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Conditions for safe storage, Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible including any materials (see Section 10) and food and drink. Keep container tightly closed and incompatibilities sealed until ready for use. Store and use only in equipment/containers designed for use with this product. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. Not suitable Prolonged exposure to elevated temperature

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Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

| Ingredient name | Exposure limits | |
|--|--|--|
| Base oil - unspecified | Safe Work Australia (Australia). | |
| | TWA: 5 mg/m ³ 8 hours. Issued/Revised: 5/1995 Form: Mist | |
| Distillates (petroleum), hydrotreated heavy paraffinic | Safe Work Australia (Australia). TWA: 5 mg/m ³ 8 hours. Issued/Revised: 5/1995 Form: Mist | |

| Appropriate engineering controls | All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained. Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards. Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits. The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible. |
|-------------------------------------|---|
| Environmental exposure controls | Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. |
| Individual protection measures | |
| Hygiene measures | Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. |
| Eye/face protection | Safety glasses with side shields. |
| Skin protection | |
| Hand protection | Wear protective gloves if prolonged or repeated contact is likely. Wear chemical resistant gloves. Recommended: Nitrile gloves. The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions. |
| Skin protection | Se of protective clothing is good industrial practice. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required. |

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Section 8. Exposure controls and personal protection

| Other skin protection | Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
|----------------------------|---|
| Respiratory protection | In case of insufficient ventilation, wear suitable respiratory equipment. The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions. |
| <u>Refer to standards:</u> | Respiratory protection:AS/NZS 1715 and AS/NZS 1716 Gloves:AS/NZS 2161.1 Eye protection:AS/NZS 1336 and AS/NZS 1337 |

Section 9. Physical and chemical properties

| Appearance | |
|--|---|
| Physical state | Liquid. |
| Colour | Amber. |
| Odour | Not available. |
| Odour threshold | Not available. |
| рН | Not available. |
| Melting point | Not available. |
| Boiling point | Not available. |
| Flash point | Closed cup: 218°C (424.4°F) [Pensky-Martens.] |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not applicable. Based on - Physical state |
| Lower and upper explosive (flammable) limits | Not available. |
| Vapour pressure | Not available. |
| Vapour density | Not available. |
| Relative density | Not available. |
| Density | <1000 kg/m³ (<1 g/cm³) at 15°C |
| Solubility | insoluble in water. |
| Partition coefficient: n- octanol/water | Not available. |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |
| Viscosity | Kinematic: 68 mm ² /s (68 cSt) at 40°C |
| | |

Section 10. Stability and reactivity

| Reactivity | No specific test data available for this product. Refer to Conditions to avoid and Incompatible materials for additional information. |
|------------------------------------|--|
| Chemical stability | The product is stable. |
| Possibility of hazardous reactions | Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerisation will not occur. |
| Conditions to avoid | Avoid all possible sources of ignition (spark or flame). |
| Incompatible materials | Reactive or incompatible with the following materials: oxidising materials. |
| Hazardous decomposition products | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

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Section 11. Toxicological information

Information on toxicological effects

| Information on likely routes of exposure | Routes of entry anticipated: Dermal, Inhalation. |
|---|--|
| Potential acute health effects | |
| Eye contact | No known significant effects or critical hazards. |
| Inhalation | Vapour inhalation under ambient conditions is not normally a problem due to low vapour pressure. |
| Skin contact | Defatting to the skin. May cause skin dryness and irritation. |
| Ingestion | No known significant effects or critical hazards. |
| Symptoms related to the physic Eye contact | cal, chemical and toxicological characteristics No specific data. |
| Inhalation | No specific data. |
| Skin contact | Adverse symptoms may include the following: irritation dryness cracking |
| Ingestion | No specific data. |

| Delayed and immediate effect | ts as well as chronic effects from short and long-term exposure |
|------------------------------|--|
| Eye contact | Potential risk of transient stinging or redness if accidental eye contact occurs. |
| Inhalation | Overexposure to the inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract. |
| Skin contact | Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis. |
| Ingestion | Ingestion of large quantities may cause nausea and diarrhoea. |
| General | No known significant effects or critical hazards. |
| Carcinogenicity | No known significant effects or critical hazards. |
| Mutagenicity | No known significant effects or critical hazards. |
| Teratogenicity | No known significant effects or critical hazards. |
| Developmental effects | No known significant effects or critical hazards. |
| Fertility effects | No known significant effects or critical hazards. |
| | |

Section 12. Ecological information

Persistence and degradability

Expected to be biodegradable.

Bioaccumulative potential

This product is not expected to bioaccumulate through food chains in the environment.

| <u>Mobility in soil</u> | | |
|--|--|--|
| Soil/water partition coefficient (Koc) | Not available. | |
| Mobility | Spillages may penetrate the soil causing ground water contamination. | |
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Section 12. Ecological information

| Other ecological information | Spills may form a film on water surfaces causing physical damage to organisms. |
|------------------------------|--|
| | Oxygen transfer could also be impaired. |

Section 13. Disposal considerations

Disposal methods

The generation of waste should be avoided or minimised wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Special Precautions for Landfill or Incineration

No additional special precautions identified.

Section 14. Transport information

| | ADG | IMDG | ΙΑΤΑ |
|-------------------------------|----------------|----------------|----------------|
| UN number | Not regulated. | Not regulated. | Not regulated. |
| UN proper shipping name | - | - | - |
| Transport hazard class(es) | - | - | - |
| Packing group | - | - | - |
| Environmental hazards | No. | No. | No. |
| Additional information | - | - | - |

Special precautions for user Not available.

Section 15. Regulatory information

Standard Uniform Schedule of Medicine and Poisons

Not regulated.

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

Montreal Protocol (Annexes A, B, C, E)

| Ingredient name Not listed. | List name | Status |
|--|---------------------------------|-------------------------------|
| Stockholm Convention on Persistent Organic F | Pollutants | J |
| Ingredient name Not listed. | List name | Status |
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Section 15. Regulatory information

Rotterdam Convention on Prior Informed Consent (PIC)

| Ingredient name | | List name | Status |
|---|---|-----------|--------|
| Not listed. | | | |
| International lists | | • | |
| National inventory | | | |
| REACH Status | For the REACH status of this product please consult your company contact, as identified in Section 1. | | |
| Australia inventory (AICS) | All components are listed or exempted. | | |
| Canada inventory | All components are listed or exempted. | | |
| China inventory (IECSC) | All components are listed or exempted. | | |
| Japan inventory (ENCS) | All components are listed or exempted. | | |
| Korea inventory (KECI) | All components are listed or exempted. | | |
| Philippines inventory (PICCS) | All components are listed or exempted. | | |
| Taiwan Chemical Substances Inventory (TCSI) | Not determined. | | |
| United States inventory (TSCA 8b) | All components are listed or exempted. | | |

Section 16. Any other relevant information

| History | | | | |
|--------------------------------|---|------------------|-------------|-----------|
| Date of printing | 08/06/2018 | | | |
| Date of issue/Date of revision | 08/06/2018 | | | |
| Date of previous issue | 12/07/2017 | | | |
| Version | 1.02 | | | |
| Prepared by | Product Stewardship | | | |
| Key to abbreviations | ADG = Australian Dangerous Goods ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) NOHSC = National Occupational Health and Safety Commission REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006] STEL = Short term exposure limit SUSMP = Standard Uniform Schedule of Medicine and Poisons UN = United Nations TWA = Time weighted average VOC = Volatile Organic Compound SADT = Self-Accelerating Decomposition Temperature Varies = may contain one or more of the following 101316-69-2, 101316-70-5, 101316-71-6, 101316-72-7, 64741-88-4, 64741-89-5, 64741-95-3, 64741-96-4, 64741-97-5, 64742-01-4, 64742-44-5, 64742-45-6, 64742-52-5, 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-57-0, 64742-58-1, 64742-62-7, 64742-63-8, 64742-64-9, 64742-65-0, 64742-70-7, 72623-85-9, 72623-86-0, 72623-87-1, 74869-22-0, 90669-74-2 | | | |
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| <u>I</u> | | | | |

Section 16. Any other relevant information

Procedure used to derive the classification

| Classification | Justification | |
|-----------------|---------------|--|
| Not classified. | | |

✓ Indicates information that has changed from previously issued version.

Notice to reader

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from BP Group.

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