Material Safety Data Sheet



1. Product and company identification

Product name Hyspin AWS 22

MSDS # 456614

Code 456614-DE04

Product use Hydraulic fluid

For specific application advice see appropriate Technical Data Sheet or consult our company

representative.

Manufacturer Castrol Industrial North America, Inc.

150 W. Warrenville Road Naperville, IL 60563

Supplier Castrol Industrial North America, Inc.

150 W. Warrenville Road Naperville. IL 60563

Product Information: +1-877-641-1600 1 (800) 424-9300 CHEMTREC (USA)

EMERGENCY SPILL INFORMATION:

2. Hazards identification

Physical state Liquid.

Color Amber.

Emergency overview CAUTION!

MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.

Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis. In accordance with good industrial hygiene and safety work practices, airborne exposures should be controlled to the lowest extent practicable. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash

thoroughly after handling.

Routes of entry Dermal contact. Eye contact. Inhalation.

Potential health effects

Eyes May cause eye irritation.

Skin May cause skin irritation. Prolonged or repeated contact can defat the skin and lead to irritation

and/or dermatitis.

Inhalation May cause respiratory tract irritation.

Ingestion Ingestion may cause gastrointestinal irritation and diarrhea.

See toxicological information (Section 11)

3. Composition/information on ingredients

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

Ingredient name CAS # %

Base oil - highly refined Varies 50 - 55
Base oil - highly refined Varies 45 - 50

Product name Hyspin AWS 22 Product code 456614-DE04 Page: 1/6

Version 1 Date of issue 11/13/2013. Format US Language ENGLISH

(US) (ENGLISH)

4. First aid measures

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get Eye contact

medical attention if symptoms occur.

Skin contact Immediately wash exposed skin with soap and water. Remove contaminated clothing and shoes.

Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if

symptoms occur.

Inhalation If inhaled, remove to fresh air. Get medical attention if symptoms occur.

Ingestion Do not induce vomiting unless directed to do so by medical personnel. Never give anything by

mouth to an unconscious person. If potentially dangerous quantities of this material have been

swallowed, call a physician immediately. Get medical attention if symptoms occur.

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, discolored 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 minimize tissue loss and prevent or limit permanent damage. Note that high pressure may force the product considerable distances along

tissue planes.

5. Fire-fighting measures

Flash point Open cup: 192°C (377.6°F) [Cleveland.]

Fire/explosion hazards In a fire or if heated, a pressure increase will occur and the container may burst.

Combustion products may include the following:

Extinguishing media

Suitable Use an extinguishing agent suitable for the surrounding fire.

Do not use water jet. Not suitable

Fire-fighting procedures Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

No action shall be taken involving any personal risk or without suitable training.

Hazardous combustion

products

carbon oxides (CO, CO₂) (carbon monoxide, carbon dioxide)

Fire-fighters should wear appropriate protective equipment and self-contained breathing Protective clothing (fire)

apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Accidental release measures

No action shall be taken involving any personal risk or without suitable training. Keep Personal precautions

unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. In accordance with good industrial hygiene and safety work practices, airborne exposures should be controlled to the lowest extent practicable. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal

protective equipment (see Section 8).

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. **Environmental** precautions

Inform the relevant authorities if the product has caused environmental pollution (sewers,

waterways, soil or air).

Methods for cleaning up

Small spill

Large spill Stop leak if without risk. Move containers from spill area. Approach release from upwind.

Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

(US)

(ENGLISH)

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if watersoluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Product name Hyspin AWS 22 **Product code** 456614-DE04 Page: 2/6

Version 1 **Date of issue** 11/13/2013. Format US Language ENGLISH

7. Handling and storage

Handling Put on appropriate personal protective equipment (see Section 8). Workers should wash hands

and face before eating, drinking and smoking. Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate

respirator when ventilation is inadequate.

Storage Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-

ventilated area, away from incompatible materials (see Section 10). Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and

kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate

containment to avoid environmental contamination.

Not suitable Prolonged exposure to elevated temperature

8. Exposure controls/personal protection

Occupational exposure limits

Ingredient name Occupational exposure limits

Base oil - highly refined ACGIH TLV (United States).

TWA: 5 mg/m³ 8 hours. Issued/Revised: 11/2009 Form: Inhalable fraction

NIOSH REL (United States).

TWA: 5 mg/m³ 10 hours. Issued/Revised: 6/1994 Form: Mist STEL: 10 mg/m³ 15 minutes. Issued/Revised: 6/1994 Form: Mist

OSHA PEL (United States).

TWA: 5 mg/m3 8 hours. Issued/Revised: 6/1993

While specific OELs for certain components may be shown in this section, other components may be present in any mist, vapor or dust produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for guidance only.

Some states may enforce more stringent exposure limits.

Control Measures Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist,

use process enclosures, local exhaust ventilation or other engineering controls to keep worker

exposure to airborne contaminants below any recommended or statutory limits.

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.

Personal protection

Eyes Avoid contact with eyes. Safety glasses with side shields or chemical goggles.

Skin and body Avoid contact with skin and clothing. Wear suitable protective clothing.

Respiratory Use adequate ventilation. In accordance with good industrial hygiene and safety work practices,

airborne exposures should be controlled to the lowest extent practicable.

Hands 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.

9. Physical and chemical properties

Physical state Liquid.

Color Amber.

Odor Oily

Flash point Open cup: 192°C (377.6°F) [Cleveland.]

Density <1000 kg/m³ (<1 g/cm³) at 15°C

Viscosity Kinematic: 22 mm²/s (22 cSt) at 40°C

Kinematic: 4.2 mm²/s (4.2 cSt) at 100°C

Solubility insoluble in water.

Product name Hyspin AWS 22 Product code 456614-DE04 Page: 3/6

Version 1 Date of issue 11/13/2013. Format US Language ENGLISH

(US) (ENGLISH)

10. Stability and reactivity

Stability and reactivity The product is stable.

Possibility of hazardous

reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid Avoid all possible sources of ignition (spark or flame).

Incompatibility with various substances Reactive or incompatible with the following materials: oxidizing materials.

Hazardous decomposition

products

Under normal conditions of storage and use, hazardous decomposition products should not be

produced.

Hazardous polymerization Under normal conditions of storage and use, hazardous polymerization will not occur.

11. Toxicological information

Potential chronic health effects

Carcinogenicity No known significant effects or critical hazards.

12. Ecological information

Ecotoxicity

No testing has been performed by the manufacturer.

Persistence/degradability

Expected to be biodegradable.

Mobility

Spillages may penetrate the soil causing ground water contamination.

Bioaccumulative potential

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

Other ecological information

Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer

could also be impaired.

13. Disposal considerations

Waste information

The generation of waste should be avoided or minimized wherever possible. 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. 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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

NOTE: The generator of waste has the responsibility for proper waste identification (based on characteristic(s) or listing), transportation and disposal

14. Transport information

Not classified as hazardous for transport (DOT, TDG, IMO/IMDG, IATA/ICAO)

Product name Hyspin AWS 22 **Product code** 456614-DE04 Page: 4/6 Version 1 **Date of issue** 11/13/2013. Format US Language ENGLISH

> (US) (ENGLISH)

15. Regulatory information

U.S. Federal Regulations

United States inventory (TSCA 8b)

All components are listed or exempted.

SARA 302/304: No products were found.

SARA 311/312 Hazards identification: Immediate (acute) health hazard

SARA 313

Form R - Reporting requirements

This product does not contain any hazardous ingredients at or above regulated thresholds.

Supplier notification

This product does not contain any hazardous ingredients at or above regulated thresholds.

CERCLA Sections 102a/103 Hazardous Substances (40 CFR Part 302.4): CERCLA: Hazardous substances.: Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate): No RQ is being assigned to the generic or broad class.; Toluene: 1000 lbs. (454 kg); Arsenic: 1 lb. (0.454 kg); Benzene: 10 lbs. (4.54 kg); Cadmium (Non-pyrophoric): 10 lbs. (4.54 kg); lead: 10 lbs. (4.54 kg); Ethyl acrylate: 1000 lbs. (454 kg);

State regulations

Massachusetts Substances The following components are listed: MINERAL OIL, PETROLEUM DISTILLATES, SOLVENT-DEWAXED LIGHT PARAFFINIC

New Jersey Hazardous Substances

The following components are listed: MINERAL OIL (UNTREATED and MILDLY TREATED)

Pennsylvania RTK Hazardous Substances

None of the components are listed.

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer. Ethyl acrylate; Arsenic

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Toluene

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Benzene; Cadmium (Non-pyrophoric); lead

Other regulations

Canada inventory All components are listed or exempted.

REACH Status The company, as identified in Section 1, sells this product in the EU in compliance with the current

requirements of REACH.

Australia inventory (AICS)

All components are listed or exempted.

China inventory (IECSC)

All components are listed or exempted.

Japan inventory (ENCS) Not determined.

Korea inventory (KECI)

All components are listed or exempted.

Philippines inventory

All components are listed or exempted.

(PICCS)

16. Other information

Label requirements CAUTION!

MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.

HMIS® Rating: Health 1 National Fire Flammability 1 Protection

Physical 0 Hazard Personal B protection Protection
Association (U.S.A.)

Health 1 Fire hazard Instability Specific hazard

Product name Hyspin AWS 22 Product code 456614-DE04 Page: 5/6

Version 1 Date of issue 11/13/2013. Format US Language ENGLISH (US) (ENGLISH)

History

Date of issue 11/13/2013.

Date of previous issue No previous validation.

Prepared by Product Stewardship

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.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The BP Group shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken. You can contact the BP Group to ensure that this document is the most current available. Alteration of this document is strictly prohibited.

Product nameHyspin AWS 22Product code456614-DE04Page: 6/6Version 1Date of issue11/13/2013.Format USLanguage ENGLISH(US)(ENGLISH)