



INDUSTRIAL
LUBRICANTS &
SERVICES LIMITED

SAFETY DATA SHEET

ILS HYTROL AW 100

Issued Date: 07/02/2022

Issued by: Industrial Lubricants & Services Ltd

1. IDENTIFICATION

GHS Product Identifier

ILS HYTROL AW 100

Company Name

Industrial Lubricants & Services Ltd

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Recommended use of the chemical and restrictions on use

Hydraulic fluid

2. HAZARD IDENTIFICATION

GHS classification of the sub stance/ mixture

This material is not classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

This material is not classified as DANGEROUS GOODS according to criteria in New Zealand Standard 5433:2012 Transport of Dangerous Goods on Land.

Signal Word (s)

No signal word.

Hazard Statement (s)

No known significant effects or critical hazards.

Precautionary statement - Prevention

Not applicable.

Precautionary statement - Response

Not applicable.

Precautionary statement - Storage

Not Applicable

Precautionary statement - Disposal

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.

3. COMPOSITION/INFORMATION ON INGREDIENTS**Substance/mixture****Mixture**

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

Ingredients

Name	CAS	Proportion
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	50 – 95%
Residual oils (petroleum), solvent-dewaxed	64742-62-7	1 - 5%
Residual oils (petroleum), hydrotreated	64742-57-0	1 - 5%
2,6-di-tert-butylphenol	128-39-2	0.1 – 1%

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.

4. FIRST AID MEASURES**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. Get medical attention if symptoms occur.

Skin

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.

Eye contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Check for and remove any contact lenses. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention immediately.

First Aid Facilities

Eye wash, safety shower and normal washroom facilities.

Advice to Doctor

Treatment should in general be symptomatic and directed to relieving any effects.

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.

Protection of first-aiders

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

Other Information

For advice in an emergency, contact a Poisons Information Centre or a doctor at once. (0800 764 766)

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

In case of fire, use foam, dry chemical or carbon dioxide extinguisher or spray.
Do not use water jet.

Hazards from Combustion Products

Combustion products may include the following:
carbon oxides (CO, CO₂) (carbon monoxide, carbon dioxide)

Specific Hazards Arising From The Chemical

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

Hazchem Code

Not available

Precautions in connection with Fire

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. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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. Floors may be slippery; use care to avoid falling. Put on appropriate personal protective equipment (see Section 8).

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 containment 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. Approach the release from upwind. 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 (see Section 13). Contaminated absorbent material may pose the same hazard as the spilt product. Dispose of via a licensed waste disposal contractor.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Put on appropriate personal protective equipment (see Section 8). Wash thoroughly after handling. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Remove contaminated clothing and protective equipment before entering eating areas. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

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 materials (see Section 10) and food and drink. Keep container tightly closed and 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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values

Ingredient name	Exposure limits
Distillates (petroleum), hydrotreated heavy paraffinic	NZ HSWA 2015 (New Zealand). WES-TWA: 5 mg/m ³ 8 hours. Issued/ Revised: 6/2016 Form: Mist WES-STEL: 10 mg/m ³ 15 minutes. Issued/ Revised: 9/2010 Form: Mist
Residual oils (petroleum), solvent-dewaxed	NZ HSWA 2015 (New Zealand). WES-TWA: 5 mg/m ³ 8 hours. Issued/ Revised: 6/2016 Form: Mist

	WES-STEL: 10 mg/m³ 15 minutes. Issued/ Revised: 9/2010 Form: Mist
Residual oils (petroleum), hydrotreated	NZ HSWA 2015 (New Zealand). WES-TWA: 5 mg/m ³ 8 hours. Issued/ Revised: 6/2016 Form: Mist WES-STEL: 10 mg/m ³ 15 minutes. Issued/ Revised: 9/2010 Form: Mist

Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Appropriate Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits. 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. 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 Protection

Safety glasses with side shields.

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

Use of protective clothing is good industrial practice. 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. 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.

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. Respiratory protection should conform to AS/NZS 1715 and AS/NZS 1716.

9. PHYSICAL AND CHEMICAL PROPERTIES

Properties	Description	Properties	Description
Form	Liquid	Appearance	Amber
Odour	Not available	pH	Not available
Boiling Point	Not available	Melting Point	Not available
Drop Point	Not available	Flash Point	Closed cup: >220°C (>428°F) [Pensky-Martens.]
Vapour Pressure	Not available	Vapour Density	Not available
Density	<1000 kg/m ³ (<1 g/cm ³) at 15°C	Solubility in Water	Insoluble in water
Viscosity @ 40°C	Kinematic: 100 mm ² /s (100 cSt) at 40°C	Viscosity @ 100°C	Kinematic: 11.1 mm ² /s (11.1 cSt) at 100°C

10. STABILITY AND REACTIVITY

Chemical Stability

Stable under normal conditions of storage and handling.

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 fire conditions this product may emit toxic and/or irritating fumes and gases including carbon monoxide, carbon dioxide and oxides of nitrogen.

Possibility of hazardous reactions

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

Hazardous Polymerization

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

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

- Ingestion** - No known significant effects or critical hazards.
- Inhalation** - No known significant effects or critical hazards.
- Skin** - Defatting to the skin. May cause skin dryness and irritation.
- Eye** - No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

- Ingestion - No specific data.
- Inhalation - No specific data.
- Skin - Adverse symptoms may include the following:
 - irritation
 - dryness
 - cracking
- Eye - No specific data.

Potential chronic health effects

- General** - No known significant effects or critical hazards.
- Inhalation** - Overexposure to the inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.
- Ingestion** - Ingestion of large quantities may cause nausea and diarrhoea.
- Skin contact** - Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis.
- Eye contact** - Potential risk of transient stinging or redness if accidental eye contact occurs.
- 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.

12. ECOLOGICAL INFORMATION

Ecotoxicity

No known significant effects or critical hazards.

Persistence and degradability

Expected to be biodegradable.

Bioaccumulative Potential

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

Product/ingredient name	LogP _{ow}	BCF	Potential
2,6-di-tert-butylphenol	4.5	-	high

Mobility

Spillages may penetrate the soil causing ground water contamination.

Soil/water partition coefficient (KOC)

Not available.

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

Disposal considerations

The generation of waste should be avoided or minimised 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. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

14. TRANSPORT INFORMATION

Regulatory information	UN number	Proper shipping name	Classes	Packing Group	Label	Additional information
New Zealand Class	Not regulated.	-	-	-	-	-
ADG Class	Not regulated.	-	-	-	-	-
IATA Class	Not regulated.	-	-	-	-	-
IMDG Class	Not regulated.	-	-	-	-	-

15. REGULATORY INFORMATION

HSNO Approval Number

None assigned.

HSNO Group Standard

None assigned.

HSNO Classification

None assigned.

16. OTHER INFORMATION

Date of preparation or last revision of SDS

SOS reviewed: 07 February 2022

Supersedes: Not available

Key to abbreviations

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

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 ILS LTD

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END OF SDS