

# HYDRAULIC OIL ISO 46

## SAFETY DATA SHEET

MSDS No:		<b>QUICK SMART PRODUCTS</b>
Product Name:	HYDRAULIC OIL ISO 46	<b>53 ASSEMBLY DRIVE</b>
Manufacturers Code:	HYD46-1, HYD46-5, HYD46-20, HYD46-205	<b>TULLAMARINE VIC 3043</b>
Date:	February 2018	ABN: 40 959 725 049 Ph: (03) 9338 6655 (BH) Fax: (03) 9335 2598 Email: <a href="mailto:gsmart@bigpond.net.au">gsmart@bigpond.net.au</a> Web: <a href="http://www.quicksmartproducts.com.au">www.quicksmartproducts.com.au</a>

### 31. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<b>Product Name</b>	HYDRAULIC OIL ISO 46
<b>Company Name</b>	QUICK SMART PRODUCTS
<b>Address</b>	53 Assembly Drive Tullamarine Vic 3043
<b>Telephone</b>	(03) 9338 6655 (BH) Poisons Information Centre 131126 (AH) Fax (03) 9335 2598
<b>Recommended Use</b>	Hydraulic Oil suitable for hydraulic systems and pumps

### 2. HAZARDS IDENTIFICATION

<b>Hazard Classification</b>	Not hazardous
<b>Dangerous Goods Classification</b>	Not Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)
<b>GHS Label Elements</b>	
<b>Signal Word</b>	Not Applicable
<b>Symbol(s)</b>	Not Applicable
<b>Hazard Statements</b>	Not Applicable. No known significant effects or critical hazards.
<b>Precautionary Statements</b>	
<b>Prevention</b>	Not Applicable
<b>Response</b>	Not Applicable
<b>Storage</b>	Not Applicable
<b>Disposal</b>	Not Applicable
<b>Other Hazards which do not result in classification</b>	Defatting of the skin.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Entity	CAS No	Proportion
A blend of severely solvent refined base oils with a proprietary performance additives at sufficiently low levels as to not require hazardous classification.		VHIGH > 60%

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#### 4. FIRST AID MEASURES

##### *Description of necessary measures according to routes of exposure*

<b>Ingestion</b>	Rinse mouth out with water. Do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side to maintain open airway to prevent aspiration. If irritation develops or persists or vomiting has occurred after ingestion, seek immediate medical assistance.
<b>Eye Contact</b>	In case of eye contact, hold eyelids apart and flush the eye immediately with large amounts of running water. Continue flushing for at least 15 minutes or until advised to stop by a Doctor. Check for contact lenses. If there are contact lenses, these should be removed after several minutes of rinsing by the exposed person or medical personnel if it can be done easily. After flushing, if irritation persists seek medical advice/attention.
<b>Skin Contact</b>	If skin or hair contact has occurred remove any contaminated clothing and footwear, wash skin or hair with soap and water. If irritation or rash occurs seek medical advice/attention.
<b>Inhaled</b>	If affected, remove the affected person from further exposure into fresh air, if safe to do so. Lay patient down in a well ventilated area. Allow patient to assume most comfortable position and keep warm. If experiencing respiratory symptoms, seek immediate medical advice/attention. If not breathing, provide artificial respiration and seek immediate medical assistance. If irritation develops or persists, consult a Doctor.
<b>First Aid Facilities</b>	Eye wash station and safety showers are recommended in the area where the product is used.
<b>Protection for First Aiders</b>	No action shall be taken involving any personal risk or without suitable training.

##### **Most Important Symptoms & Effects, Both Acute & Delayed, Caused by Exposure**

See Section 11 for more detailed information on health effects and symptoms.

**Advice to Doctor:** Treat symptomatically based on individual reactions of patient and judgment of doctor.

#### 5. FIRE FIGHTING MEASURES

<b>General Measures</b>	Do not enter enclosed or a confined work space without proper protective equipment. Fire fighting personnel should wear respiratory protection (positive pressure if available). Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk.
<b>Flammability Conditions</b>	Product is a combustible liquid (C2). Product will burn if involved in a fire.
<b>Extinguishing Media</b>	Use extinguishing media appropriate for surrounding fire. Use carbon dioxide, foam, dry chemical or water spray.
<b>Unsuitable Extinguishing Media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Combustion Hazards</b>	On combustion may produce smoke, carbon dioxide and hazardous gases, which include carbon monoxide.
<b>Explosion</b>	No information to indicate that the product is an explosion hazard. Closed containers may explode when exposed to extreme heat.

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<b>Personal Protective Equipment</b>	Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves).
<b>Flash Point</b>	224°C (COC)
<b>Hazchem Code</b>	Not applicable.

### 6. ACCIDENTAL RELEASE MEASURES

<b>General Response Procedure</b>	Avoid accidents, clean up immediately. Slippery when spilled. Avoid contact with eyes and skin. Eliminate all sources of ignition. Increase ventilation. Use clean, non-sparking tools and equipment.
<b>Containment</b>	Stop the leak if safe to do so. Isolate the danger area. Contain the spill and absorb with a proprietary absorbent material, sand or earth.
<b>Clean Up Procedures</b>	Having contained the spill, collect all material and place used absorbent in suitable, labelled containers for disposal. Wash contaminated area and objects with detergent and water after spill has been cleared. Rinse the cleaned area with water. Do not allow wash water to enter drains, surface water, sewers or water courses.
<b>Environmental Precautionary Measures</b>	Use appropriate containment to avoid environmental contamination. Do not let product enter drains, surface water, sewers or water courses. Advise local authorities if this occurs.
<b>Evacuation Criteria</b>	Evacuate personnel to safe areas.
<b>Personal Precautionary Measures</b>	Small Spills - Wear Nitrile gloves, glasses/goggles, boots and full length clothing. If mists of vapour are generated, an approved organic vapour/particulate respirator is required. Large Spills or in Confined Spaces - A full chemical resistant bodysuit is recommended and the atmosphere must be evaluated for oxygen deficiency. If in doubt about oxygen deficiency wear self-contained breathing apparatus.
<b>Disposal</b>	Dispose of waste in accordance to Federal, EPA, State and Local Regulations. Disposal into sewer system is not permitted.

### 7. HANDLING AND STORAGE

<b>Safe Handling</b>	Ensure an eye bath and safety shower are available and ready for use. Avoid contact with the product by using appropriate protective equipment such as gloves, goggles, boots and full length clothing. Eating, drinking and smoking should be prohibited in the area where this material is handled, stored and processed. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment.
<b>Safe Storage</b>	Product is a combustible liquid (C2) that will burn if involved in a fire. Store in a dry, well ventilated area out of direct sunlight and away from ignition sources, oxidising agents, foodstuffs and clothing. Do not store in unlabelled containers. Keep containers tightly closed when not in use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Inspect regularly for deficiencies such as damage or leaks.
<b>Incompatibilities</b>	Oxidizing substances including strong acids.

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### 8. EXPOSURE CONTROL

<b>Occupational Exposure Limits</b>	No exposure standards have been established for this product. However, in the operation of certain equipment or at elevated temperatures, if oil mists or aerosols are generated the following Exposure Standard should be observed: TWA: 5mg/m <sup>3</sup> STEL: 10mg/m <sup>3</sup> (ACGIH)
<b>Biological Limit</b>	No data available
<b>Engineering Controls</b>	Special ventilation is not normally required when using this product at normal temperatures. In the operation of certain equipment, at elevated temperatures or in confined spaces, mist or vapour may be generated and local exhaust ventilation should be used to maintain airborne concentration levels below the nominated exposure standard and at an acceptable level that does not cause irritation.
<b>Respiratory Protection</b>	If engineering controls are not effective in controlling airborne exposure then respiratory protective equipment should be used suitable for protecting against airborne contaminants. Final choice of appropriate breathing protection is dependant upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices.
<b>Eye Protection</b>	Safety glasses with side shields, goggles or full-face shield as appropriate recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform with Australian/New Zealand Standards AS/NZS 1337 – Eye Protectors for Industrial Applications.
<b>Hand Protection</b>	Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1 – Occupational Protective Gloves – Selection, Use and Maintenance.
<b>Body Protection</b>	During normal operating procedures, long sleeved clothing is recommended to avoid skin contact. Chemical resistant plastic apron is recommended where large quantities are handled.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Liquid
<b>Appearance</b>	Viscous brown liquid
<b>Odour</b>	Characteristic lubricating oil odour
<b>pH</b>	No data available
<b>Melting/Freezing Point</b>	No data available
<b>Initial Boiling Point</b>	No data available
<b>Boiling Range</b>	No data available
<b>Flash Point COC °C</b>	224°C
<b>Pour Point</b>	-9°C
<b>Evaporation Rate</b>	No data available

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<b>Flammability Limits</b>	No data available
<b>Vapour Pressure</b>	No data available
<b>Vapour Density</b>	No data available
<b>Density</b>	@ 15°C 0.884Kg/L
<b>Solubility in Water</b>	Insoluble
<b>Auto-Ignition Temp</b>	No data available
<b>Decomposition Temp</b>	No data available
<b>Viscosity @ 100°C cSt</b>	6.7
<b>Viscosity @ 40°C cSt</b>	46
<b>Viscosity Index</b>	95

### 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	This product does not pose any further reactivity hazards other than those listed below.
<b>Stability</b>	Stable under recommended storage and handling conditions (refer Section 7).
<b>Conditions to Avoid</b>	Avoid direct contact with sunlight, heat, flames, sparks etc.
<b>Materials to Avoid</b>	Strong oxidising agents. Heat or high temperatures.
<b>Hazardous Decomposition Products</b>	Hazardous decomposition products are not expected to form during normal storage and use. See Section 5 for Hazardous Combustion Products.
<b>Hazardous Polymerization</b>	Will not occur.

### 11. TOXICOLOGICAL INFORMATION

<b>Toxicology Information</b>	The product is a mixture and test data is not available for the product as a whole.
<b>Likely Routes of Exposure:</b>	Skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion.
<b>Potential Acute Health Effects</b>	
<b>Eye Contact</b>	No known significant effects or critical hazards.
<b>Inhalation</b>	Vapour inhalation under ambient conditions is not normally a problem due to low vapour pressure.
<b>Skin Contact</b>	Defatting to the skin. May cause dryness and irritation.
<b>Ingestion</b>	No known significant effects or critical hazards.
<b>Symptoms Related to the Physical, Chemical and Toxicological Characteristics</b>	
<b>Eye Contact</b>	No specific data.
<b>Inhalation</b>	May be harmful by inhalation if exposure to vapour, mists or fumes resulting from thermal decomposition products occurs.
<b>Skin Contact</b>	Adverse symptoms may include the following: Irritation Dryness Cracking

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**Ingestion** No specific data.

### Delayed and Immediate Effects and also 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.

**Other Information** Used oils may contain harmful impurities that can accumulate during usage. Due to the use of oils in different types of equipment the type of impurities that accumulate during its usage are unknown. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal. All used oil should be handled with caution and skin contact avoided as far as possible by wearing suitable gloves, such as those made of nitrile rubber.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** There is no data available for this product as a whole.

**Persistence / Degradability** Based on the components and similar products the product is not expected to be readily biodegradable. Major constituents are expected to be inherently biodegradable, but the product contains components that may persist in the environment.

**Mobility** Floats on water. If it enters soil, it will absorb onto soil particles and will not be mobile.

**Bioaccumulative Potential** No information is available on bioaccumulation for this product.

**Environmental Fate** Do not allow product to reach water ways, drains or sewers. Product will float on water. Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

**Other Adverse Effects** Product is a mixture of non-volatile components, which are not expected to be released to air in any significant quantities. Not expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential.

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### 13. DISPOSAL CONSIDERATIONS

#### Disposal Considerations

The generation of waste should be avoided or minimised wherever possible. 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. 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

Contact a specialist disposal company or the local waste regulator for advice.

### 14. TRANSPORT INFORMATION

#### Transport Regulations

Not classified as dangerous for transport (ADG, IMDG, IATA)

#### Special Precautions for User

No known special precautions required.

### 15. REGULATORY INFORMATION

#### SUSMP

A poison schedule has not been allocated for this product.

#### AICS (Australia)

All ingredients are listed in the Australian Inventory of Chemical Substances (AICS)

#### Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

### 16. OTHER INFORMATION

**Contact Person/Point** Technical Information: (03) 9338 6655.

**Date of Preparation or last revision of SDS** SDS reviewed: 7 February 2018

#### Abbreviations

<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>ADG Code</b>	Australian Code for the Transport of Dangerous Goods by Road & Rail
<b>AICS</b>	Australian Inventory of Chemical Substances
<b>CAS Number</b>	Chemical Abstracts Service Registry Number
<b>GHS</b>	Globally Harmonised System of Classification and Labelling
<b>HAZCHEM Code</b>	Emergency action code of numbers and letters which gives information to emergency services
<b>IATA</b>	International Air Transport Association
<b>IMDG</b>	International Maritime Dangerous Goods
<b>mg/m<sup>3</sup></b>	Milligrams per Cubic Metre
<b>NOHSC</b>	National Occupational Health and Safety Commission
<b>ppm</b>	Parts Per Million
<b>SDS</b>	Safety Data Sheet
<b>STEL</b>	Short Term Exposure Limit
<b>SUSMP</b>	Standard for the Uniform Scheduling of Medicines and Poisons
<b>TWA</b>	Time Weighted Average

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*This SDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user must review this SDS in the context of how the product will be handled in the workplace and in conjunction with other materials. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The Company accepts no responsibility for any injury, loss or damage, resulting from abnormal use of the material, or from any failure to adhere to recommendations. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.*

END OF SDS