



PRODUCT INFORMATION SHEET

CARLUBE HYDRAULIC 46

DESCRIPTION

Carlube Hydraulic 46 is a highly refined fully inhibited hydraulic oil covering the viscosity ISO 46. It is chemically and thermally stable and has good demulsibility, allowing rapid separation of any water contamination. Carlube Hydraulic 46 is classified HM in the ISO 6743 grading system.

ADVANTAGES

- Excellent lubrication of pumps, valves and actuators
- Good resistance to foaming and cavitation
- Compatible with conventional sealing materials (e.g. Nitrile, Buna-N, Viton)
- Good protection against rust and corrosion

APPLICATION

Carlube Hydraulic 46 is suitable for use in systems employing vane or gear pumps operating at low or high pressures and temperatures. It is also suitable for use in certain machine tools, industrial plant etc. Can also be used in some torque converter applications.

PERFORMANCE LEVEL

- AFNOR NF E 48-600
- Cincinnati Milacron P-68-70
- DIN 51524, Part 2
- Thyssen TH N-256132
- Vickers I-286-S (Industrial)
- CETOP R91H
- Denison Filterability TP 02100
- ISO 6743/4 HM
- U.S. Steel 127
- Vickers M-2950-S (Mobile)

PROPERTIES

SAE Viscosity Grade		46
Density @ 15°C		0.879
Kinematic Viscosity (mm ² /s)	@ 40°C	46.0
	@ 100°C	6.82
Viscosity Index (VI)		100
Pour Point (°C)		-18
Flash Point (°C)		196

AVAILABILITY

4.55 Litre – XHK455 25 Litre – YHK025 199 Litre – YHK199

ENVIRONMENTAL PROTECTION/SAFETY PRECAUTIONS

Do not pour used oil down sewers or drains. Dispose of used oil at your nearest oil-recycling bank. Dispose of empty packs in a responsible manner. Store container in an upright position and secure when transported. Wear goggles if splashing risk. Avoid exposure to oil mist. When using oil do not eat, drink and smoke. Wash hands after use. Always refer to vehicle or engine manufacturers handbook to verify suitability of this product for the vehicle/engine.

**DISCLAIMER**

This Product Information Sheet does not constitute to any extent a fitness for purpose warranty or a quality specification. It is intended to be indicative only of the general characteristics of the product(s) and may not be relied upon (in whole or in part) in substitution of nor as a supplement to any of the information and/or instructions and/or warnings set out on the product(s) and/or on any packaging and/or in the relevant Safety Data Sheet (which is available on request).

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This Product Information Sheet does not apply to the use of the product(s) in any combination or with other products or materials.

Users of a product or products marked "For Professional Use Only" are deemed to declare and acknowledge for themselves professional levels of skill, knowledge, competence and experience in the selection and use of such product(s).

Product Information Sheets are updated from time to time and inquiries should be made on a regular basis to ensure that this is the latest version available.

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SAFETY DATA SHEET CARLUBE 46 HYDRAULIC

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME CARLUBE 46 HYDRAULIC
PRODUCT NO. XBC046, YHK025, YHK205, YHK199, XHK455
INTERNAL ID A
APPLICATION Engine oil
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2 HAZARDS IDENTIFICATION

Not regarded as a health or environmental hazard under current legislation.

CLASSIFICATION (1999/45) Not classified.

HUMAN HEALTH

See section 11 for additional information on health hazards.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content %	Classification (67/548/EEC)
CRISTOBALITE/QUARTZ MIXTURE		14808-60-7	<0.1%	Xn;R48/20.

The Full Text for all R-Phrases is Displayed in Section 16

4 FIRST-AID MEASURES

GENERAL INFORMATION

Remove affected person from source of contamination. Get medical attention if any discomfort continues.

NOTES TO THE PHYSICIAN

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

INHALATION

Get medical attention if any discomfort continues.

INGESTION

Consult a physician for specific advice.

SKIN CONTACT

Promptly wash contaminated skin with soap or mild detergent and water. Promptly remove clothing if soaked through and wash as above.

EYE CONTACT

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Do not rub eye.

5 FIRE-FIGHTING MEASURES

CARLUBE 46 HYDRAULIC**EXTINGUISHING MEDIA**

Use fire-extinguishing media appropriate for surrounding materials.

SPECIAL FIRE FIGHTING PROCEDURES

No specific fire fighting procedure given.

PROTECTIVE MEASURES IN FIRE

Leave danger zone immediately.

6 ACCIDENTAL RELEASE MEASURES**PERSONAL PRECAUTIONS**

For personal protection, see section 8. In case of spills, beware of slippery floors and surfaces.

ENVIRONMENTAL PRECAUTIONS

The product should not be dumped in nature but collected and delivered according to agreement with the local authorities.

SPILL CLEAN UP METHODS

For waste disposal, see section 13. When dealing with a spillage, please consult the section relating to suitable protective measures. Provide ventilation and confine spill. Do not allow runoff to sewer. Absorb spillage with non-combustible, absorbent material.

7 HANDLING AND STORAGE**USAGE PRECAUTIONS**

Read and follow manufacturer's recommendations. Avoid spilling, skin and eye contact. Always remove grease with soap and water or skin cleaning agent, never use organic solvents. Do not eat, drink or smoke when using the product. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site.

STORAGE PRECAUTIONS

Keep away from heat, sparks and open flame. Keep away from food, drink and animal feeding stuffs. Store in tightly closed original container in a dry, cool and well-ventilated place.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	STD	TWA - 8 Hrs	STEL - 15 Min	Notes
CRISTOBALITE/QUARTZ MIXTURE		0.1 mg/m ³		

PROTECTIVE EQUIPMENT**PROCESS CONDITIONS**

Use engineering controls to reduce air contamination to permissible exposure level.

ENGINEERING MEASURES

Observe occupational exposure limits and minimize the risk of inhalation of vapours.

RESPIRATORY EQUIPMENT

If ventilation is insufficient, suitable respiratory protection must be provided.

HAND PROTECTION

Use suitable protective gloves if risk of skin contact.

EYE PROTECTION

Goggles/face shield are recommended.

OTHER PROTECTION

Wear suitable protective clothing as protection against splashing or contamination.

CARLUBE 46 HYDRAULIC**HYGIENE MEASURES**

Wash contaminated clothing before reuse. Wash at the end of each work shift and before eating, smoking and using the toilet.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Oily Liquid
COLOUR	Straw
RELATIVE DENSITY	0.863 - 0.889 15
VISCOSITY	43 - 49 cSt 40

10 STABILITY AND REACTIVITY**STABILITY**

No particular stability concerns.

11 TOXICOLOGICAL INFORMATION**HEALTH WARNINGS**

Because of quantity and composition, the health hazard is small.

12 ECOLOGICAL INFORMATION**ECOTOXICITY**

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

13 DISPOSAL CONSIDERATIONS**GENERAL INFORMATION**

When handling waste, consideration should be made to the safety precautions applying to handling of the product.

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements. Absorb in vermiculite or dry sand and dispose of at a licenced hazardous waste collection point.

14 TRANSPORT INFORMATION

GENERAL	The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).	
	No transport warning sign required.	
ADR CLASS	Not classified for transportation.	

15 REGULATORY INFORMATION**RISK PHRASES**

NC	Not classified.
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SAFETY PHRASES

S2	Keep out of the reach of children.
S46	If swallowed, seek medical advice immediately and show this container or label.

UK REGULATORY REFERENCES

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments.

16 OTHER INFORMATION

CARLUBE 46 HYDRAULIC

GENERAL INFORMATION

Only trained personnel should use this material.

REVISION COMMENTS

NOTE: Lines within the margin indicate significant changes from the previous revision.

ISSUED BY

Health & Safety Department

REVISION DATE 01/02/2008

REV. NO./REPL. SDS 6

GENERATED

RISK PHRASES IN FULL

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

DISCLAIMER

The information provided in this document has been compiled on the basis of our current knowledge and is believed to be in accordance with the requirements of the Dangerous Substances Directive, Dangerous Preparations Directive and Safety Data Sheets Directive. The information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any particular conditions or process. The conditions and extent of storage and use of material are outside of our control and within the control of the possessor or user. Consequently it is the responsibility of the possessor or user to satisfy themselves as to the completeness of such information and the suitability of the material for their own particular circumstances, conditions or use.