

	Page: 1
SAFETY DATA SHEET	Revision Date: 06.06.2018
	Print Date: 22.07.2021
	SDS Number: 000000274383
Valvoline™ ULTRAMAX HLP 46 HYDRAULIC OIL ™ Trademark, Valvoline or its subsidiaries, registered in various countries 886308	Version: 1.0

Conforms to EU Regulation 1907/2006/EC as amended. - SDSGHS_RW

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : Valvoline™ ULTRAMAX HLP 46
HYDRAULIC OIL
™ Trademark, Valvoline or its subsidiaries, registered in various countries

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended use : Lubricating oils

1.3 Details of the supplier of the safety data sheet

Ellis Enterprises B.V., an affiliate of Valvoline
Wieldrechtseweg 39
3316 BG Dordrecht
Netherlands
+31 (0)78 654 3500 (in the Netherlands), or
contact your local CSR contact person

SDS@valvoline.com

1.4 Emergency telephone number

00-800-825-8654 / 001-859-202-3865, or contact
your local emergency telephone number at 112

Product Information

+31 (0)78 654 3500 (in the Netherlands), or
contact your local CSR contact person

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.3 Other hazards

Additional advice

No information available.

SECTION 3: Composition/information on ingredients

	Page: 2
SAFETY DATA SHEET	Revision Date: 06.06.2018
	Print Date: 22.07.2021
	SDS Number: 000000274383
Valvoline™ ULTRAMAX HLP 46 HYDRAULIC OIL ™ Trademark, Valvoline or its subsidiaries, registered in various countries 886308	Version: 1.0

3.2 Mixtures

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Zinc bis[O,O-bis(2-ethylhexyl)]bis(dithiophosphate)	4259-15-8 224-235-5	Eye Dam.1; H318 Aquatic Chronic2; H411	≥ 0,25 - < 0,50
2,6-di-tert-butylphenol	128-39-2 204-884-0 01-2119490822-33-xxxx	Skin Irrit.2; H315 Aquatic Acute1; H400 Aquatic Chronic1; H410	≥ 0,10 - < 0,25

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	: No hazards which require special first aid measures.
If inhaled	: If breathed in, move person into fresh air. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	: First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.
In case of eye contact	: Remove contact lenses. Protect unharmed eye.
If swallowed	: Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	: Signs and symptoms of exposure to this material through
----------	---

	Page: 3
SAFETY DATA SHEET	Revision Date: 06.06.2018
	Print Date: 22.07.2021
	SDS Number: 000000274383
Valvoline™ ULTRAMAX HLP 46 HYDRAULIC OIL ™ Trademark, Valvoline or its subsidiaries, registered in various countries 886308	Version: 1.0

breathing, swallowing, and/or passage of the material through the skin may include:
acne
stomach or intestinal upset (nausea, vomiting, diarrhea)
irritation (nose, throat, airways)

Risks : Acute aspiration of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Repeated aspiration of small quantities of mineral oil can produce chronic inflammation of the lungs (i.e. lipoid pneumonia) that may progress to pulmonary fibrosis. Symptoms are often subtle and radiological changes appear worse than clinical abnormalities. Occasionally, persistent cough, irritation of the upper respiratory tract, shortness of breath with exertion, fever, and bloody sputum occur. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No hazards which require special first aid measures.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Water spray
Foam
Carbon dioxide (CO₂)
Dry chemical

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : carbon dioxide and carbon monoxide
Hydrocarbons

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

	Page: 4
SAFETY DATA SHEET	Revision Date: 06.06.2018
	Print Date: 22.07.2021
	SDS Number: 000000274383
Valvoline™ ULTRAMAX HLP 46 HYDRAULIC OIL ™ Trademark, Valvoline or its subsidiaries, registered in various countries 886308	Version: 1.0

Specific extinguishing methods : Product is compatible with standard fire-fighting agents.

Further information : Standard procedure for chemical fires.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
Comply with all applicable federal, state, and local regulations.

6.2 Environmental precautions

Environmental precautions : Prevent further leakage or spillage if safe to do so.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For further information see Section 8 and Section 13 of the safety data sheet.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Smoking, eating and drinking should be prohibited in the application area.
For personal protection see section 8.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : General industrial hygiene practice.

7.2 Conditions for safe storage, including any incompatibilities

Advice on common storage : No materials to be especially mentioned.

Other data : No decomposition if stored and applied as directed.

	Page: 5
SAFETY DATA SHEET	Revision Date: 06.06.2018
	Print Date: 22.07.2021
	SDS Number: 000000274383
Valvoline™ ULTRAMAX HLP 46 HYDRAULIC OIL ™ Trademark, Valvoline or its subsidiaries, registered in various countries 886308	Version: 1.0

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Engineering measures

General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal protective equipment

Eye protection : Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes.

Skin and body protection : Wear as appropriate:
Safety shoes

Respiratory protection : No personal respiratory protective equipment normally required.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : amber

Odour : oily

Odour Threshold : No data available

pH :
Not applicable

Melting point/freezing point : No data available

	Page: 6
SAFETY DATA SHEET	Revision Date: 06.06.2018
	Print Date: 22.07.2021
	SDS Number: 000000274383
Valvoline™ ULTRAMAX HLP 46 HYDRAULIC OIL ™ Trademark, Valvoline or its subsidiaries, registered in various countries 886308	Version: 1.0

Boiling point/boiling range : No data available

Flash point : > 201 °C

Method: Cleveland open cup

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Density : ca. 0,862 g/cm3

Solubility(ies)

Water solubility : insoluble

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : 46 mm2/s (40 °C)

Oxidizing properties : No data available

9.2 Other information

No data available

SECTION 10: Stability and reactivity

	Page: 7
SAFETY DATA SHEET	Revision Date: 06.06.2018
	Print Date: 22.07.2021
	SDS Number: 000000274383
Valvoline™ ULTRAMAX HLP 46 HYDRAULIC OIL ™ Trademark, Valvoline or its subsidiaries, registered in various countries 886308	Version: 1.0

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Product will not undergo hazardous polymerization.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products : carbon dioxide and carbon monoxide
Hydrocarbons

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of exposure : Inhalation
Skin contact
Eye Contact
Ingestion

Acute toxicity

Not classified based on available information.

Components:

PHOSPHORODITHIOIC ACID:

Acute oral toxicity : LD50 (Rat): 3.100 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rabbit, male): > 5.000 mg/kg
Method: OECD Test Guideline 402

Components:

2,6-DI-TERT-BUTYLPHENOL:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute dermal toxicity : Assessment: Not classified as acutely toxic by dermal

	Page: 8
SAFETY DATA SHEET	Revision Date: 06.06.2018
	Print Date: 22.07.2021
	SDS Number: 000000274383
Valvoline™ ULTRAMAX HLP 46 HYDRAULIC OIL ™ Trademark, Valvoline or its subsidiaries, registered in various countries 886308	Version: 1.0

absorption under GHS.

Skin corrosion/irritation

Not classified based on available information.

Components:

PHOSPHORODITHIOIC ACID:

Result: Slight, transient irritation

2,6-DI-TERT-BUTYLPHENOL:

Species: Rabbit

Method: OECD Test Guideline 404

Result: Irritating to skin.

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks: Unlikely to cause eye irritation or injury.

Components:

PHOSPHORODITHIOIC ACID:

Result: Corrosive

2,6-DI-TERT-BUTYLPHENOL:

Species: Rabbit

Method: OECD Test Guideline 405

Result: Slight, transient irritation

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Components:

2,6-DI-TERT-BUTYLPHENOL:

Test Type: Maximisation Test

Species: Guinea pig

Assessment: Does not cause skin sensitisation.

Method: OECD Test Guideline 406

Germ cell mutagenicity

Not classified based on available information.

Components:

2,6-DI-TERT-BUTYLPHENOL:

	Page: 9
SAFETY DATA SHEET	Revision Date: 06.06.2018
	Print Date: 22.07.2021
	SDS Number: 000000274383
Valvoline™ ULTRAMAX HLP 46 HYDRAULIC OIL ™ Trademark, Valvoline or its subsidiaries, registered in various countries 886308	Version: 1.0

Genotoxicity in vitro : Test Type: Ames test
Test species: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Result: negative

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks: No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4,4 mg/l
Exposure time: 96 h
Test Type: semi-static test
Test substance: WAF
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EL50 (Water flea (Daphnia magna)): 75 mg/l
Exposure time: 48 h
Test Type: static test
Test substance: WAF
Method: OECD Test Guideline 202

Toxicity to algae : EL50 (Desmodesmus subspicatus (green algae)): 410 mg/l
End point: Growth inhibition
Exposure time: 72 h

	Page: 10
SAFETY DATA SHEET	Revision Date: 06.06.2018
	Print Date: 22.07.2021
	SDS Number: 000000274383
Valvoline™ ULTRAMAX HLP 46 HYDRAULIC OIL ™ Trademark, Valvoline or its subsidiaries, registered in various countries 886308	Version: 1.0

Test Type: static test
Test substance: WAF

2,6-di-tert-butylphenol
Toxicity to fish

: LC50 (Danio rerio (zebra fish)): 13 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203

LC50 (Oncorhynchus mykiss (rainbow trout)): > 0,1 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates

: EC50 (Water flea (Daphnia magna)): 0,45 mg/l
Exposure time: 48 h
Test Type: flow-through test

Toxicity to algae

: EC50 (Pseudokirchneriella subcapitata (green algae)): 3,6 mg/l
Exposure time: 72 h
Test Type: static test

M-Factor (Acute aquatic toxicity)

: 1

Toxicity to fish (Chronic toxicity)

: NOEC: 0,30 mg/l
Exposure time: 14 d
Species: Pimephales promelas (fathead minnow)
Test Type: flow-through test

M-Factor (Chronic aquatic toxicity)

: 1

12.2 Persistence and degradability

Components:

Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)

Biodegradability

: Result: Not biodegradable
Biodegradation: < 5 %
Exposure time: 27 d
Method: OECD Test Guideline 301D

2,6-di-tert-butylphenol
Biodegradability

: Result: Not readily biodegradable.
Biodegradation: 12 - 24 %
Exposure time: 28 d
Method: OECD Test Guideline 302C

	Page: 11
SAFETY DATA SHEET	Revision Date: 06.06.2018
	Print Date: 22.07.2021
	SDS Number: 000000274383
Valvoline™ ULTRAMAX HLP 46 HYDRAULIC OIL ™ Trademark, Valvoline or its subsidiaries, registered in various countries 886308	Version: 1.0

12.3 Bioaccumulative potential

Components:

2,6-di-tert-butylphenol

Bioaccumulation

: Species: Green algae (*Chlorella fusca vacuolata*)
Exposure time: 24 h
Concentration: 0,05 mg/l
Bioconcentration factor (BCF): 800
Method: Static

Species: Carp (*Leuciscus idus melanotus*)
Exposure time: 3 d
Concentration: 0,037 mg/l
Bioconcentration factor (BCF): 660
Method: Renewal

Partition coefficient: n-octanol/water : log Pow: 4,92

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Not relevant

12.6 Other adverse effects

Product:

Additional ecological information : No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Contaminated packaging : Empty remaining contents.

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

	Page: 12
SAFETY DATA SHEET	Revision Date: 06.06.2018
	Print Date: 22.07.2021
	SDS Number: 000000274383
Valvoline™ ULTRAMAX HLP 46 HYDRAULIC OIL ™ Trademark, Valvoline or its subsidiaries, registered in various countries 886308	Version: 1.0

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 57). : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.
Not applicable

	Page: 13
SAFETY DATA SHEET	Revision Date: 06.06.2018
	Print Date: 22.07.2021
	SDS Number: 000000274383
Valvoline™ ULTRAMAX HLP 46 HYDRAULIC OIL ™ Trademark, Valvoline or its subsidiaries, registered in various countries 886308	Version: 1.0

The components of this product are reported in the following inventories:

DSL	: All components of this product are on the Canadian DSL
AICS	On the inventory, or in compliance with the inventory
ENCS	On the inventory, or in compliance with the inventory
KECI	On the inventory, or in compliance with the inventory
PICCS	On the inventory, or in compliance with the inventory
IECSC	On the inventory, or in compliance with the inventory
TSCA	On TSCA Inventory

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

15.2 Chemical safety assessment

No data available

SECTION 16: Other information

Further information

Revision Date: 06.06.2018

Full text of H-Statements

H315	Causes skin irritation.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

Other information	: The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Valvoline's Environmental Health and Safety Department (+31 (0)78 654 3500).
-------------------	---

	Page: 14
SAFETY DATA SHEET	Revision Date: 06.06.2018
	Print Date: 22.07.2021
	SDS Number: 000000274383
Valvoline™ ULTRAMAX HLP 46 HYDRAULIC OIL ™ Trademark, Valvoline or its subsidiaries, registered in various countries 886308	Version: 1.0

Sources of key data used to compile the Safety Data Sheet
Valvoline internal data including own and sponsored test reports
The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists
BEI : Biological Exposure Index
CAS : Chemical Abstracts Service (Division of the American Chemical Society).
CMR : Carcinogenic, Mutagenic or Toxic for Reproduction
FG : Food grade
GHS : Globally Harmonized System of Classification and Labeling of Chemicals.
H-statement : Hazard Statement
IATA : International Air Transport Association.
IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO : International Civil Aviation Organization
ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"
IMDG : International Maritime Code for Dangerous Goods
ISO : International Organization for Standardization
logPow : octanol-water partition coefficient
LCxx : Lethal Concentration, for xx percent of test population
LDxx : Lethal Dose, for xx percent of test population.
ICxx : Inhibitory Concentration for xx of a substance
Ecxx : Effective Concentration of xx
N.O.S.: Not Otherwise Specified
OECD : Organization for Economic Co-operation and Development
OEL : Occupational Exposure Limit
P-Statement : Precautionary Statement
PBT : Persistent , Bioaccumulative and Toxic
PPE : Personal Protective Equipment
STEL : Short-term exposure limit
STOT : Specific Target Organ Toxicity
TLV : Threshold Limit Value
TWA : Time-weighted average
vPvB : Very Persistent and Very Bioaccumulative
WEL : Workplace Exposure Level

ABM : Water Hazard Class for the Netherlands
ADR : Agreement concerning the International Carriage of Dangerous Goods by Road.
ADNR: Regulation for the Carriage of Dangerous Substances on the Rhine

	Page: 15
SAFETY DATA SHEET	Revision Date: 06.06.2018
	Print Date: 22.07.2021
	SDS Number: 000000274383
Valvoline™ ULTRAMAX HLP 46 HYDRAULIC OIL ™ Trademark, Valvoline or its subsidiaries, registered in various countries 886308	Version: 1.0

CLP : Classification, Labelling and Packaging

CSA : Chemical Safety Assessment

CSR : Chemical Safety Report

DNEL : Derived No Effect Level.

EINECS : European Inventory of Existing Commercial Chemical Substances.

ELINCS : European List of Notified Chemical Substances

PEC : Predicted Effect Concentration

PEL : Permissible Exposure Limits

PNEC : Predicted No Effect Concentration

R-phrase : Risk phrase

REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals

RID : Regulation Concerning the International Transport of Dangerous Goods by Rail

S-phrase: Safety phrase

WGK : German Water Hazard Class