# **SAFETY DATA SHEET**

# **ULTRAMAX AW 46**

Version: 5.0 Revision Date: 29.11.2023 Print Date: 04/22/2024

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : ULTRAMAX AW 46

Product code : 692333

Manufacturer or supplier's details

Company : Valvoline Pte. Ltd.

Address : 8 Jurong Town Hall Road, #30-01

Singapore 609434

Singapore

Telephone : 1-800-TEAMVAL (1-800-832-6825)

Emergency telephone number : +1-800-VALVOLINE (+1-800-825-8654), or contact your local

emergency telephone number at 995

E-mail address : SDS@valvolineglobal.com

Recommended use of the chemical and restrictions on use

Recommended use : Lubricating oils

#### 2. HAZARDS IDENTIFICATION

# **GHS Classification**

Not a hazardous substance or mixture.

# **GHS** label elements

Not a hazardous substance or mixture.

Other hazards which do not result in classification

None known.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture



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#### Components

Chemical name	CAS-No.	Concentration (% w/w)
LUBRICATING OILS, PETROLEUM, C20-50,	72623-87-1	>= 50 -< 70
HYDROTREATED		
2,6-DI-TERT-BUTYLPHENOL	128-39-2	>= 0.1 -< 0.25

#### 4. FIRST AID MEASURES

General advice : Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of eye contact : Remove contact lenses.

Protect unharmed eye.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. No symptoms known or expected.

Most important symptoms and effects, both acute and

delayed

Notes to physician : No hazards which require special first aid measures.

Treat symptomatically.

#### 5. FIREFIGHTING MEASURES

Hazardous combustion

products

No hazardous combustion products are known

Specific extinguishing

methods

: Standard procedure for chemical fires.

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Special protective equipment :

for firefighters

Wear self-contained breathing apparatus for firefighting if

necessary.

#### 6. ACCIDENTAL RELEASE MEASURES

Environmental precautions : If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

: Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.

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#### 7. HANDLING AND STORAGE

fire and explosion

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

Advice on safe handling For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Conditions for safe storage Electrical installations / working materials must comply with

the technological safety standards.

No materials to be especially mentioned. Materials to avoid

Further information on

storage stability

: No decomposition if stored and applied as directed.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED	72623-87-1	PEL (long term) (Mist)	5 mg/m3	SG OEL
		PEL (short term) (Mist)	10 mg/m3	SG OEL
		TWA (Inhalable particulate matter)	5 mg/m3	ACGIH

#### Personal protective equipment

Respiratory protection No personal respiratory protective equipment normally

required.

Hand protection

Material neoprene, nitrile rubber

Break through time >= 240 min Glove thickness >= 0.35 mm

Equipment should conform to EN 374 Directive

Remarks The selected protective gloves have to satisfy the

> specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Please observe the instructions regarding permeability and breakthrough time which are provided by

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the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the

protective glove.

Eye protection : Safety glasses Skin and body protection : Protective suit

Hygiene measures : General industrial hygiene practice.

# 9. 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

Boiling point/boiling range : No data available

Flash point : > 199 °C

Method: Cleveland open cup

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Self-ignition : No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower :

flammability limit

No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

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Density : ca. 0.8662 g/cm3 (15 °C)

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

#### 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.
Chemical stability : No decomposition if stored and applied as directed.
Possibility of hazardous : Stable under recommended storage conditions.

reactions

No hazards to be specially mentioned.

actions 140 hazards to be specially mentioned

Conditions to avoid : excessive heat

Incompatible materials : Strong oxidizing agents

Hazardous decomposition : No hazardous decomposition products are known.

products

#### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Not classified based on available information.

#### **Components:**

# **LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5.58 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute

inhalation toxicity

Remarks: No mortality observed at this dose.

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg



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Remarks: No mortality observed at this dose.

#### 2,6-DI-TERT-BUTYLPHENOL:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal

toxicity

#### Skin corrosion/irritation

Not classified based on available information.

#### **Components:**

# **LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED:**

Species : Rabbit

Result : No skin 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.

#### **Components:**

# **LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED:**

Species : Rabbit

Result : No eye irritation

#### 2,6-DI-TERT-BUTYLPHENOL:

Species : Rabbit

Result : Slight, transient irritation
Method : OECD Test Guideline 405

#### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### Respiratory sensitisation

Not classified based on available information.



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#### **Components:**

#### **LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED:**

Test Type : Buehler Test Species : Guinea pig

Assessment : Does not cause skin sensitisation.

## 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:

Genotoxicity in vitro : Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Result: negative

# Carcinogenicity

Not classified based on available information.

#### Components:

#### **LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED:**

Carcinogenicity - : Classified based on DMSO extract content < 3% (Regulation

Assessment (EC) 1272/2008, Annex VI, Part 3, Note L)

#### 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.

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## **Components:**

#### **LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED:**

No aspiration toxicity classification

**Further information** 

**Product:** 

Remarks : No data available

#### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

#### Components:

#### **LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED:**

: LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l Toxicity to fish

Exposure time: 96 h Test Type: static test Test substance: WAF

Method: OECD Test Guideline 203

Remarks: No toxicity at the limit of solubility

aquatic invertebrates

Toxicity to daphnia and other : EL50 (Daphnia magna (Water flea)): > 10,000 mg/l

Exposure time: 48 h Test Type: static test Test substance: WAF

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

: NOEL (Pseudokirchneriella subcapitata (green algae)): >=

100 mg/l

End point: Growth inhibition Exposure time: 72 h Test Type: static test Test substance: WAF

Method: OECD Test Guideline 201

Toxicity to fish (Chronic

toxicity)

: NOELR (Oncorhynchus mykiss (rainbow trout)): Calculated >=

1,000 mg/l

Exposure time: 14 d

Toxicity to daphnia and other : NOEL (Daphnia (water flea)): 10 mg/l

aquatic invertebrates (Chronic toxicity)

Exposure time: 21 d

Test substance: WAF

Method: OECD Test Guideline 211

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#### 2,6-DI-TERT-BUTYLPHENOL:

LC50 (Danio rerio (zebra fish)): 13 mg/l Toxicity to fish

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

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0.45 mg/l

Exposure time: 48 h

Test Type: flow-through test

Toxicity to algae/aquatic

plants

: 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 (Pimephales promelas (fathead minnow)): 0.30 mg/l

Exposure time: 14 d

Test Type: flow-through test

M-Factor (Chronic aquatic

toxicity)

# Persistence and degradability

#### Components:

#### **LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED:**

Biodegradability Result: Not readily biodegradable.

> Biodegradation: 2 - 4 % Exposure time: 28 d

Method: OECD Test Guideline 301B

#### 2,6-DI-TERT-BUTYLPHENOL:

Biodegradability Result: Not readily biodegradable.

Biodegradation: 12 - 24 %

Exposure time: 28 d

Method: OECD Test Guideline 302C

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#### **Bioaccumulative potential**

#### **Components:**

#### 2,6-DI-TERT-BUTYLPHENOL:

Bioaccumulation : Species: Green algae (Chlorella fusca vacuolata)

Bioconcentration factor (BCF): 800

Exposure time: 24 h
Concentration: 0.05 mg/l

Method: Static

Species: Carp (Leuciscus idus melanotus)

Bioconcentration factor (BCF): 660

Exposure time: 3 d Concentration: 0.037 mg/l

Method: Renewal

Partition coefficient: n-

octanol/water

: log Pow: 4.92

#### Mobility in soil

No data available

#### Other adverse effects

**Product:** 

Additional ecological

information

: No data available

#### 13. DISPOSAL CONSIDERATIONS

**Disposal methods** 

Contaminated packaging : Empty containers should be taken to an approved waste

handling site for recycling or disposal.

# 14. TRANSPORT INFORMATION

# **International Regulations**

**UNRTDG** 

UN number : Not applicable
Proper shipping name : Not applicable
Class : Not applicable
Subsidiary risk : Not applicable
Packing group : Not applicable
Labels : Not applicable

IATA-DGR

UN/ID No. : Not applicable

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Proper shipping name : Not applicable Class : Not applicable Subsidiary risk : Not applicable Packing group : Not applicable Labels : Not applicable Packing instruction (cargo : Not applicable

aircraft)

Packing instruction : Not applicable

(passenger aircraft)

**IMDG-Code** 

**UN** number Not applicable Not applicable Proper shipping name Not applicable Class Subsidiary risk : Not applicable Packing group : Not applicable Labels Not applicable EmS Code Not applicable Not applicable Marine pollutant

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### Special precautions for user

Not applicable

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.

#### 15. REGULATORY INFORMATION

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

Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations.

Environmental Protection and Management Act and : Not applicable Environmental Protection and Management

(Hazardous Substances) Regulations

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

TCSI : On the inventory, or in compliance with the inventory

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TSCA : All substances listed as active on the TSCA inventory

AIIC : Not in compliance with the inventory

DSL : All components of this product are on the Canadian DSL

ENCS : Not in compliance with the inventory

ISHL : Not 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

NZIoC : On the inventory, or in compliance with the inventory

TECI : Not in compliance with the inventory

#### **Inventories**

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

#### 16. OTHER INFORMATION

Revision Date : 29.11.2023 Date format : dd.mm.yyyy

#### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

SG OEL : Singapore. Workplace Safety and Health (General Provisions)

Regulations - First Schedule Permissible Exposure Limits of

Toxic Substances.

ACGIH / TWA : 8-hour, time-weighted average

SG OEL / PEL (long term) : Permissible Exposure Level (PEL) Long Term SG OEL / PEL (short term) : Permissible Exposure Level (PEL) Short Term

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized



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System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC -New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG -Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

SG / EN

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