

Safety Data Sheet

According to Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Malaysia Regulations



Base Oil BS150

Version 1.0

Release Date: 26.10.2022

SECTION 1: Identification of the hazardous chemical and of the supplier

Product identifier

Product name : Base Oil BS150
Synonyms : Base Oil
CAS-No. : 64742-62-7

Recommended use of the chemical and restrictions on use

Recommended use : Lubricant base oil

Manufacturer or supplier's details

Headquarters

Company : PETRONAS LUBRICANTS INTERNATIONAL
Address : Level 26, Integra Tower,
The Intermark, 348 Jalan Tun Razak,
50400, Kuala Lumpur
Malaysia

Emergency telephone number : +603 2301 4100

SECTION 2: Hazards identification

Classification of the hazardous chemical

Not a hazardous substance or mixture.

Label elements

Not a hazardous substance or mixture.

Other hazards which do not result in classification

No information available.

SECTION 3: Composition and information of the ingredients of the hazardous chemical

Substance / Mixture : UVCB

Components

Chemical name	CAS-No.	Concentration (%)
Residual oils (petroleum), solvent-dewaxed	64742-62-7	≤100

SECTION 4: First aid measures

If inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a medical doctor.
Move to fresh air.

In case of eye contact : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.

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If swallowed	:	If eye irritation persists, consult a specialist. Keep respiratory tract clear. Do NOT give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Take victim immediately to hospital. If symptoms persist, call a medical doctor. Do NOT induce vomiting.
General advice	:	Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended. Symptoms of poisoning may appear several hours later.
Most important symptoms and effects, both acute and delayed	:	No information available.

SECTION 5: Firefighting measures

Extinguishing media

Unsuitable extinguishing media : High volume water jet

Physicochemical hazards arising from the chemical

Special protective equipment and precautions for fire-fighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Specific extinguishing methods : Standard procedure for chemical fires.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Ensure adequate ventilation.

Environmental precautions : Prevent further leakage or spillage if safe to do so.
Prevent product from entering drains.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Keep in suitable, closed containers for disposal.

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

SECTION 7: Handling and storage

Handling

Precautions for safe handling

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

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fire and explosion
Advice on safe handling : Do not breathe vapour/dust.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Dispose of rinse water in accordance with local and national regulations.

Storage

Conditions for safe storage, including any incompatibilities

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.

Further information on storage stability : No decomposition if stored and applied as directed.

SECTION 8: Exposure controls and personal protection

Control parameters

Exposure limits : No data available
Biological limits : No data available

Individual protection measures, such as personal protective equipment

Eye/face protection : Eye wash bottle with pure water.
Tightly fitting safety goggles

Skin protection : Impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the workplace.

Hand protection
Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Hygiene measures : Wash hands before breaks and at the end of workday.
When using do not eat or drink.
When using do not smoke.

SECTION 9: Physical and chemical properties

Appearance : Clear and bright liquid
Colour : L 3.0 Method: ASTM D 1500
Odour : No data available
Odour Threshold : No data available

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pH	:	No data available
Pour point	:	-9 °C Method: ASTM D 97/ D 5950
Melting point/freezing point	:	Remarks: No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	280 °C Method: ASTM D93
Flammability (solid, gas)	:	Not applicable
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Density	:	0.8980 g/cm ³ (15 °C) Method: ASTM D 4052
Solubility(ies)		
Water solubility	:	Insoluble
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	473.0 mm ² /s (40 °C) / 31.5 mm ² /s (100 °C) Method: ASTM D 445

SECTION 10: Stability and reactivity

Reactivity	:	Hazardous polymerisation does not occur.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
Incompatible materials	:	Strong oxidizing agents
Hazardous decomposition products	:	Fumes, smoke, carbon monoxide

SECTION 11: Toxicological information

Acute toxicity

Skin corrosion/irritation	:	No data available. Suspected not to cause mild irritation based on test to similar material and component.
Serious eye damage/ irritation	:	Do not cause skin irritation based on test to similar material and component.
Respiratory/skin sensitization	:	Do not cause eye irritation based on test to similar material and component.
Germ cell mutagenicity	:	No data available which shows that product contains >1% material which have mutagenicity effects.
Carcinogenicity	:	Do not cause carcinogen based on test to the components.
Reproductive toxicity	:	Do not contain material which have reproductive toxicity effects.
Systemic Target Organ Toxicity-single exposure	:	No data available. It is expected that it does not cause organ damage because of single exposure.

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Systemic Target Organ Toxicity-repeated exposure	:	No data available. It is expected that it does not cause organ damage because of long term or repeated exposure based on test to the components.
Aspiration hazard	:	No data available. It is expected that it does not give aspiration risk based on its materials physical-chemical properties
Information on the likely routes of exposure	:	No data available
Symptoms related to the physical, chemical, and toxicological characteristics	:	No data available
Delayed and immediate effects and also chronic effects from short and long term exposure	:	No data available
Numerical measures of toxicity	:	No data available
Where specific chemical data are not available	:	No data available
Mixtures	:	No data available
Mixture versus ingredient information	:	No data available

SECTION 12: Ecological information

Ecotoxicity

Materials – The effect of this on aquatic organisms have not been determined, but it is expected may cause harm to aquatic organism. May cause long lasting harmful effect to aquatic life. Soil seepage may cause soil water contamination or aquifer. No potential to cause air pollution and ozone layer damage.

Persistence and degradability

Biodegradation

Lubricant base component – Suspected to be not readily biodegradable

Bioaccumulative potential

This product is estimated that will not accumulate biologically through food chain in the environment.

Mobility in soil

Lubricant base component – Low solubility, floating, and suspected can move from water to land. It is also suspected that will crack to sedimentation and wastewater particle.

Other adverse effect

No data

**Information given is based on available material data, material component data, and similar material data.*

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SECTION 13: Disposal information

Disposal methods

- | | | |
|------------------------|---|--|
| Waste from residues | : | Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company. |
| Contaminated packaging | : | Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers. |

SECTION 14: Transport information

International Regulations

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

Not applicable for product as supplied.

SECTION 15: Regulatory information

Safety, health, and environmental regulations specific for the hazardous chemical

Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013.

Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000.

SECTION 16: Other information

- | | | |
|---|---|--|
| Revision Date | : | 26.10.2022 |
| Sources of key data used to compile the Safety Data Sheet | : | CONCAWE - The oil companies' European association for Environment, Health and Safety in refining and distribution (2017) |

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Full text of other abbreviations

(Q)SAR	-	(Quantitative) Structure Activity Relationship
ACGIH	-	American Conference of Governmental Industrial Hygienists
AICS	-	Australian Inventory of Chemical Substances
ANTT	-	National Agency for Transport by Land of Brazil
ASTM	-	American Society for the Testing of Materials bw
	-	Body weight
C	-	Ceiling
CCHC	-	Chemicals Classification and Hazard Communication
CEIL	-	Ceiling
ChV	-	Chronic Toxicity Value
CMR	-	Carcinogen, Mutagen or Reproductive Toxicant
CPR	-	Controlled Products Regulations
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 System of Classification and Labelling of Chemicals
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
ICOP	-	Industry Code of Practice on Chemicals Classification and Hazard Communication
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
MY PEL	-	Malaysian Permissible Exposure Limit
n.o.s.	-	Not Otherwise Specified
Nch	-	Chilean Norm
NITE	-	National Institute of Technology and Evaluation
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
OCSP	-	Office of Chemical Safety and Pollution Prevention
OECD	-	Organization for Economic Co-operation and Development
PBT	-	Persistent, Bioaccumulative and Toxic
PICCS	-	Philippines Inventory of Chemicals and Chemical Substances

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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
STEL	-	Short Term Exposure Limit
TCSI	-	Taiwan Chemical Substance Inventory
TDG	-	Transportation of Dangerous Goods
TSCA	-	Toxic Substances Control Act (United States)
TWA	-	Time Weighted Average
UN	-	United Nations
UNRTDG	-	United Nations Recommendations on the Transport of Dangerous Goods
UVCB	-	Unknown or Variable Composition, Complex Reaction Products and Biological Materials
vPvB	-	Very Persistent and Very Bioaccumulative
WHMIS	-	Workplace Hazardous Materials Information System
LLx	-	Loading rate associated with x% lethality effect

Disclaimer

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Product Stewardship Advisory:

PETRONAS aims to increase awareness of all the hazards associated with the storage, handling and use of its products. Thoroughly reviewing the accompanying Safety Data Sheets and disseminating the information to all dependent and interested parties is an essential part of any 'Responsible Care' programme.

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