

# Safety Data Sheet

## PETRONAS GEAR MEP 150

Revision Date: 16/12/2024

version 1



### **SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

#### 1.1. PRODUCT IDENTIFIER

Mixture identification:

TRADE NAME:

**PETRONAS GEAR MEP 150**

Trade code: 77618

Registration Number N/A

#### 1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

RECOMMENDED USE:

Gear fluid

USES ADVISED AGAINST:

This product should not be used for other purposes than those specified without the advice of an expert.

#### 1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

COMPANY:

PETRONAS LUBRICANTS ITALY S.P.A.

Via Santena 1

10029 Villastellone (Torino)

Tel: +39.01196131 Fax : +39.0119613313

COMPETENT PERSON FOR SAFETY DATA OF PRODUCT:

Information on the legislation compliance [info-regulation.eu@pli-petronas.com](mailto:info-regulation.eu@pli-petronas.com)

#### 1.4. EMERGENCY TELEPHONE NUMBER

Emergency Answer Service (24h/7d):

+44 1235 239670

### **SECTION 2: HAZARDS IDENTIFICATION**

#### 2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Regulation (EC) n. 1272/2008 (CLP)

Aquatic Chronic Harmful to aquatic life with long lasting effects.

3

ADVERSE PHYSICOCHEMICAL, HUMAN HEALTH AND ENVIRONMENTAL EFFECTS:

No other hazards

#### 2.2. LABEL ELEMENTS

Hazard statements

Safety Data Sheet
PETRONAS GEAR MEP 150

Revision Date: 16/12/2024
version 1



- H412 Harmful to aquatic life with long lasting effects.
Precautionary statements
P273 Avoid release to the environment.
P501 Dispose of contents/container in accordance with local, regional, national, international regulation
Special Provisions:
EUH208 Contains Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl. May produce an allergic reaction.

Special provisions according to Annex XVII of REACH and subsequent amendments:
None

2.3. OTHER HAZARDS

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. SUBSTANCES

N.A.

3.2. MIXTURES

Severely refined mineral and/or synthetic oils, additives.

Hazardous components within the meaning of the CLP regulation and related classification:

Table with 5 columns: QTY, NAME, IDENT. NUMB., CLASSIFICATION, REGISTRATION NUMBER. Row 1: 0.1- <0.25 %, Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, CAS: Confidential, EC:931-384-6, Acute Tox. 4, H302 Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 2, H411, 01-2119493620-38-XXXX, Specific Concentration Limits: C ≥ 50%: Eye Dam. 1 H318, C ≥ 9.39%: Skin Sens. 1B H317.

Safety Data Sheet
PETRONAS GEAR MEP 150

Revision Date: 16/12/2024
version 1



Table with 4 columns: Concentration, Chemical Name, CAS, and Hazards. Row 1: 0.05- <0.1 %, (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines, CAS: 1213789-63-9, EC:627-034-4, Acute Tox. 4, H302; Skin Corr. 1B, H314; Eye Dam. 1, H318; STOT SE 3, H335; STOT RE 2, H373; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410, M-Chronic:10, M-Acute:10, 01-2119473797-19-XXXX. Row 2: 90.0- 100.0 %, Not classified oils.

H-phrases and list of abbreviations: see heading 16.

SECTION 4: FIRST AID MEASURES

4.1. DESCRIPTION OF FIRST AID MEASURES

IN CASE OF INGESTION: Do not induce vomiting to avoid aspiration into the respiratory tracts. Wash out thoroughly the mouth with water. Obtain immediate medical attention.
IN CASE OF EYES CONTACT: Rinse thoroughly with plenty of water for at least 10 minutes keeping eyelids open. Remove contact lenses if this can be done easily. Obtain medical attention in case of development and persistence of pain and redness. In case of contact with hot product, rinse thoroughly with plenty of water to dissipate heat. Obtain immediate medical attention to assess eye conditions and the correct treatment to be practiced.
IN CASE OF SKIN CONTACT: Remove contaminated clothes and shoes and rinse thoroughly with plenty of water and soap.
IN CASE OF INHALATION: Expose affected person to fresh air and obtain medical attention if necessary.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Refer to section 11.

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Refer to section 4.1.

SECTION 5: FIREFIGHTING MEASURES

5.1. EXTINGUISHING MEDIA

This product has no special fire risk. In case of fire use foam, carbon dioxide, dry chemical powder and water mist.
Cool down with water the containers don't get involved in fire to avoid their possible explosion.
Avoid high pressure water jet. Use water jet only to cool down surfaces exposed to fire.
SUITABLE EXTINGUISHING MEDIA:

# Safety Data Sheet

## PETRONAS GEAR MEP 150

Revision Date: 16/12/2024  
version 1



Water.

Carbon dioxide (CO<sub>2</sub>).

EXTINGUISHING MEDIA WHICH MUST NOT BE USED FOR SAFETY REASONS:

None in particular.

### 5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Don't breathe combustion fumes: fire can form harmful compounds.

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

HAZARDOUS COMBUSTION PRODUCTS: Oxides of carbon, compounds of sulphur, phosphorus, nitrogen and products of incomplete combustion.

### 5.3. ADVICE FOR FIREFIGHTERS

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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### 6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Avoid ingestion of product. Avoid contact with skin and eyes by wearing appropriate protective clothing.

Avoid to breathe fumes and aerosols.

Surfaces on which the product has been spilled may become slippery.

Wear personal protection equipment.

See protective measures under point 7 and 8.

### 6.2. ENVIRONMENTAL PRECAUTIONS

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

### 6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Avoid flame and/or spark near leak and produced waste. Do not smoke. In case of large spills dike, absorb and shovel up into suitable containers for disposal. Contain small spills with absorbent material. Put dirty material in suitable container. Dispose of dirty material in accordance with local or national regulations.

### 6.4. REFERENCE TO OTHER SECTIONS

See also section 8 and 13



SECTION 7: HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING

Avoid ingestion. Avoid frequent and prolonged skin contact and contact with eyes. Provide adequate ventilation to avoid mist or aerosol. Don't smoke or use spare flames; avoid contact with spark or other sources of ignition. Don't work near open container to avoid high concentration of vapours. Don't eat or drink during use.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Store under cover in the original container securely closed away from heat and sources of ignition. Do not store in the open air. Assure a correct ventilation of premises and the control of possible leak. Keep out of flame or spark and avoid the accumulation of electrostatic charges. Keep out of reach of children and away from food and drink.  
Storage class (TRGS 510, Germany): 10

7.3. SPECIFIC END USE(S)

Refer to the uses listed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. CONTROL PARAMETERS

OEL: oil mists - TLV/TWA (8 h) : 5 mg/m3 - TLV/STEL: 10 mg/m3

Predicted No Effect Concentration (PNEC) values

	PNEC	EXPOSURE LIMIT	EXPOSURE ROUTE	EXPOSURE FREQUENCY	REMARK
(Z)-octadec-9-enylamine, C16-18- (even numbered, saturated and unsaturated)-alkylamines CAS: 1213789-63-9	0.376	Fresh Water			
	3.76	Marine water			
		mg/kg sediments			
	10	Soil			
		mg/kg (agricultural)			

Derived No Effect Level (DNEL) values

WORKER INDUSTRY	WORKER PROFESSI ONAL	CONSUMER	EXPOSURE ROUTE	EXPOSURE FREQUENCY	REMARK
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(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines CAS: 1213789-63-9	1 mg/m <sup>3</sup>	Human Inhalation	Long Term, local effects	Skin irritation
	0.04 mg/kg	Human Oral	Long Term, systemic effects	Repeated dose toxicity
	0.38 mg/m <sup>3</sup>	Human Inhalation	Long Term, systemic effects	Repeated dose toxicity
	0.035 mg/m <sup>3</sup>	Human Inhalation	Long Term, systemic effects	
	1 mg/m <sup>3</sup>	Human Inhalation	Short Term, local effects	Skin irritation

8.2. EXPOSURE CONTROLS

- TECHNICAL PRECAUTIONS:  
Avoid production and diffusion of mist and aerosol with utilization of localized ventilation/aspiration or other required precautions. Adopt all required precaution to avoid product immission in environment (e.g., blasting systems, catch basins, ...).
- EYE PROTECTION:  
Chemical goggles and face shield in case of oil splashes.
- PROTECTION FOR SKIN:  
Wear suitable protective clothing (for further information, refer to CEN-EN 14605); change it immediately in case of large contamination and wash it before subsequent use.  
Practice reasonable personal cleanliness.
- PROTECTION FOR HANDS:  
Wear suitable gloves (i.e. neoprene, nitrile). Gloves should be changed when they show wear. The kind of gloves and the term of use must be decided from employer with regard to processing and to allow for DPI legislation and glove producer's indications. Wear gloves only with clean hands.
- RESPIRATORY PROTECTION:  
None required under normal conditions of use. Use approved full face respirator with organic vapour filter cartridge if the recommended exposure limits are exceeded.
- ENVIRONMENTAL EXPOSURE CONTROLS:  
Refer to technical precautions and also to sections 6.2, 6.3, 7.2, 12 and 13.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES



CHEMICAL-PHYSICAL PROPERTY	VALUE	METHOD
PHYSICAL STATE	LIQUID	
APPEARANCE AND COLOUR:	VISCOUS AMBER	
ODOUR:	NOT RELEVANT	
ODOUR THRESHOLD:	NOT RELEVANT	
PH:	N.A.	
MELTING POINT / FREEZING POINT:	N.A.	
INITIAL BOILING POINT AND BOILING RANGE:	>300 °C (572 °F)	( ASTM D2887 )
FLASH POINT:	240 °C (464 °F)	( ASTM D93 )
EVAPORATION RATE:	N.A.	
UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:	N.A.	
VAPOUR DENSITY:	N.A.	
VAPOUR PRESSURE:	N.A.	
DENSITY	0.88 g/cm3	( ASTM D4052 )
SOLUBILITY IN WATER:	IMMISCIBLE	
SOLUBILITY IN OIL:	N.A.	
PARTITION COEFFICIENT (N-OCTANOL/WATER):	N.A.	
AUTO-IGNITION TEMPERATURE:	N.A.	
DECOMPOSITION TEMPERATURE:	N.A.	
KINEMATIC VISCOSITY AT 100°C	N.A.	
KINEMATIC VISCOSITY AT 40°C	150 cSt	( ASTM D445 )
EXPLOSIVE PROPERTIES	N.A.	
OXIDIZING PROPERTIES	N.A.	
FLAMMABILITY (SOLID, GAS)	N.A.	

9.2. OTHER INFORMATION

CHEMICAL-PHYSICAL PROPERTY	VALUE	METHOD
SUBSTANCE GROUPS RELEVANT PROPERTIES	N.A.	
MISCIBILITY	N.A.	
CONDUCTIVITY	N.A.	
FREEZING POINT:	N.A.	
POUR POINT	N.A.	
DROPPING POINT	N.A.	

SECTION 10: STABILITY AND REACTIVITY

10.1. REACTIVITY

Read carefully all information provided in other sections of heading 10.

10.2. CHEMICAL STABILITY

The product is stable under normal conditions of use.

# Safety Data Sheet

## PETRONAS GEAR MEP 150

Revision Date: 16/12/2024  
version 1



### 10.3. POSSIBILITY OF HAZARDOUS REACTIONS

Not expected under normal conditions of use.

### 10.4. CONDITIONS TO AVOID

This product must be kept far from heat sources. In any case, avoid exposing product to temperatures above the flash point.

### 10.5. INCOMPATIBLE MATERIALS

Strong oxidizing agents, hard acids and bases.

### 10.6. HAZARDOUS DECOMPOSITION PRODUCTS

Oxides of carbon, compounds of sulphur, phosphorus, nitrogen and hydrogen sulfide.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

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### 11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

#### ACUTE TOXICITY:

This product is not classified in this hazard class.

While to not cause harm if accidentally swallowed in small doses, ingestion of large quantities may cause gastro-intestinal effects.

#### SKIN CORROSION OR IRRITATION:

This product is not classified in this hazard class, but prolonged or repeated skin contact sometimes may cause irritations and dermatitis.

#### SERIOUS EYE DAMAGE OR EYE IRRITATION:

This product is not classified in this hazard class, but direct contact may cause slight irritations.

#### RESPIRATORY SENSITIZATION:

This product is not classified in this hazard class.

#### SKIN SENSITIZATION:

The product contains sensitizing substances, but is not classified in this way. Product is not an irritant, but prolonged or repeated contacts may cause irritations or dermatitis.

In a sensitized individual the allergic dermatitis may not appear until after several days or weeks of frequent and prolonged contact. Therefore, even though the skin irritation potential is slight, skin contact should be avoided.

Once sensitization has occurred, exposure of the skin to very small quantities of the material may cause erythema and edema.

#### GERM CELL MUTAGENICITY:

Based on available data, the classification criteria are not met.





CARCINOGENICITY:  
Based on available data, the classification criteria are not met.

REPRODUCTIVE TOXICITY:  
Based on available data, the classification criteria are not met.

SPECIFIC TARGET ORGAN TOXICITY (STOT) – SINGLE EXPOSURE:  
This product is not classified in this hazard class, but inhalation of mists and vapours generated at elevated temperatures sometimes may cause respiratory irritation.

SPECIFIC TARGET ORGAN TOXICITY (STOT) – REPEATED EXPOSURE:  
This product is not classified in this hazard class.

ASPIRATION HAZARD:  
This product is not classified in this hazard class.

Toxicological information on main components of the mixture: No data available

Endocrine disrupting properties:  
No endocrine disruptor substances present in concentration  $\geq 0.1\%$

SECTION 12: ECOLOGICAL INFORMATION

12.1. TOXICITY

Eco-Toxicological Information:  
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

List of Eco-Toxicological properties of the components

COMPONENT	IDENT. NUMB.	ECOTOX DATA
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl	CAS: Confidential - EINECS: 931-384-6	a) Aquatic acute toxicity : LC50 Fish = 8.5 mg/L 96h
		b) Aquatic chronic toxicity : NOEC Fish = 3.2 mg/L 96h
		a) Aquatic acute toxicity : EC50 Daphnia = 91.4 mg/L 48h
		b) Aquatic chronic toxicity : NOEC Daphnia 0.12 mg/L - 21 d
		a) Aquatic acute toxicity : EC50 Daphnia 0.66 mg/L - 21 d
		a) Aquatic acute toxicity : EC50 Algae = 6.4 mg/L 96h
		b) Aquatic chronic toxicity : NOEC Algae = 1.7 mg/L 96h

**Safety Data Sheet**  
**PETRONAS GEAR MEP 150**

Revision Date: 16/12/2024  
version 1



(Z)-octadec-9-enylamine, CAS: a) Aquatic acute toxicity : LD50 Fish Pimephales promelas =  
C16-18-(even numbered, 1213789-63- 0.11 mg/L 96h  
saturated and 9 - EINECS:  
unsaturated)-alkylamines 627-034-4

a) Aquatic acute toxicity : EC50 Daphnia = 0.011 mg/L 48h  
b) Aquatic chronic toxicity : NOEC Daphnia = 0.013 mg/L

No endocrine disruptor substances present in concentration >= 0.1%

12.2. PERSISTENCE AND DEGRADABILITY

Data on biodegradability of product are not available.

12.3. BIOACCUMULATIVE POTENTIAL

Not available.

12.4. MOBILITY IN SOIL

As the dispersion in the environment may result in contamination of environmental matrix (soil, subsoil, surface water and groundwater), do not release in the environment.

12.5. RESULTS OF PBT AND VPVB ASSESSMENT

vPvB substances: None - PBT substances: None

12.6. OTHER ADVERSE EFFECTS

No effect known.

**SECTION 13: DISPOSAL CONSIDERATIONS**

13.1. WASTE TREATMENT METHODS

Prevent contamination of soil, drains and surface waters. Do not discharge in sewers, tunnels or water courses. Dispose in accordance with local or national regulations via authorised person/licensed waste disposal contractor.

The used product has to be considered a special waste to be classified in accordance to Directive 2008/98/EC on waste and related legislation.

Recover if possible. In so doing, comply with the local and national regulations currently in force.

**SECTION 14: TRANSPORT INFORMATION**

14.1. UN NUMBER



N/A

14.2. UN PROPER SHIPPING NAME

ADR-Shipping Name: N/A  
IATA-Technical name: N/A  
IMDG-Technical name: N/A

14.3. TRANSPORT HAZARD CLASS(ES)

ADR-Class: N/A  
IATA-Class: N/A  
IMDG-Class: N/A

14.4. PACKING GROUP

ADR-Packing Group: N/A  
IATA-Packing group: N/A  
IMDG-Packing group: N/A

14.5. ENVIRONMENTAL HAZARDS

Toxic Ingredients Qty: 0.00  
High Toxicity Ingredients Qty: 0.00  
Marine pollutant: No  
Environmental Pollutant: No

14.6. SPECIAL PRECAUTIONS FOR USER

Road and Rail ( ADR-RID ) :  
ADR-Label: N/A  
ADR - Hazard identification number: N/A  
ADR-Special Provisions: N/A  
ADR-Transport category (Tunnel restriction code): N/A

Air ( IATA ) :  
IATA-Passenger Aircraft: N/A  
IATA-Cargo Aircraft: N/A  
IATA-Label: N/A  
IATA-Subsidiary hazards: N/A  
IATA-Erg: N/A  
IATA-Special Provisioning: N/A

Sea ( IMDG ) :  
IMDG-Stowage Code: N/A  
IMDG-Stowage Note: N/A  
IMDG-Subsidiary hazards: N/A  
IMDG-Special Provisioning: N/A

# Safety Data Sheet

## PETRONAS GEAR MEP 150

Revision Date: 16/12/2024  
version 1



IMDG-Page: N/A  
IMDG-Label: N/A  
IMDG-EMS: N/A  
IMDG-MFAG: N/A

### 14.7. TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL AND THE IBC CODE

N.A.

## SECTION 15: REGULATORY INFORMATION

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### 15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

Regulation (EC) No 1272/2008, with all National and European related legislations - on classification, labelling and packaging of substances and mixtures - and following adjustments to technical and scientific progress.

Regulation (EC) No 790/2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

Regulation (EC) No 1907/2006, with all National and European related legislations - concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Regulation (EU) No 878/2020 amending Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Directives 89/391/EC, 89/654/EC, 89/655/EC, 89/656/EC, 90/269/EC, 90/270/EC, 90/394/EC, 90/679/EC and all following updates, together with its national implementation about improvement of worker safety and health.

Directives 98/24/EC and all following updates, together with its national implementation about protection of worker safety and health against chemical agent risks.

Directive 1991/156/EC and all following updates, together with national waste legislation  
EC directives and national environment protection legislation (air, water and soil)

Regulation 648/2004/EC on detergents

Directive 2012/18/UE, together with its national realization, on the control of major-accident hazards involving dangerous substances.

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Regulation (EU) n. 2020/217 (ATP 14 CLP)

Safety Data Sheet
PETRONAS GEAR MEP 150

Revision Date: 16/12/2024
version 1



Regulation (EU) n. 2020/1182 (ATP 15 CLP)
Regulation (EU) n. 2021/643 (ATP 16 CLP)
Regulation (EU) n. 2021/849 (ATP 17 CLP)
Regulation (EU) n. 2022/692 (ATP 18 CLP)
PROVISIONS RELATED TO DIRECTIVE EU 2012/18 (SEVESO III):

N.A.
GERMAN WATER HAZARD CLASS.
Class 1: slightly hazardous for water.
RESTRICTIONS RELATED TO THE PRODUCT OR THE SUBSTANCES CONTAINED ACCORDING TO ANNEX XVII REGULATION (EC) 1907/2006 (REACH) AND SUBSEQUENT MODIFICATIONS:
RESTRICTIONS RELATED TO THE PRODUCT: 3
RESTRICTIONS RELATED TO THE SUBSTANCES CONTAINED: None
VOLATILE ORGANIC COMPOUNDS - VOCS = N.A.

15.2. CHEMICAL SAFETY ASSESSMENT
No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: OTHER INFORMATION

Sheet complies with the criteria of Regulation (EU) No. 878/2020 as well as with Regulation (EC) No. 1272/2008 and following adjustments.
This document was prepared by a competent person who has received appropriate training.
This product must not be used in applications other than recommended without first seeking the advice of the Technical Department.
This SDS cancels and replaces any preceding release.
This product must be stored, handled and used according to correct industrial hygienic practices and in compliance with laws in force.
The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be considered as any guarantee of specific properties.

Caption about heading 3, H-statements:

Table with 2 columns: CODE, DESCRIPTION. Rows include H302 (Harmful if swallowed), H304 (May be fatal if swallowed and enters airways), H314 (Causes severe skin burns and eye damage), H317 (May cause an allergic skin reaction), H318 (Causes serious eye damage), H335 (May cause respiratory irritation), H373 (May cause damage to organs through prolonged or repeated exposure), 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).



H412	Harmful to aquatic life with long lasting effects.	
CODE	HAZARD CLASS AND HAZARD CATEGORY	DESCRIPTION
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4
3.10/1	Asp. Tox. 1	Aspiration hazard, Category 1
3.2/1B	Skin Corr. 1B	Skin corrosion, Category 1B
3.3/1	Eye Dam. 1	Serious eye damage, Category 1
3.4.2/1B	Skin Sens. 1B	Skin Sensitisation, Category 1B
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3
3.9/2	STOT RE 2	Specific target organ toxicity — repeated exposure, Category 2
4.1/A1	Aquatic Acute 1	Acute aquatic hazard, category 1
4.1/C1	Aquatic Chronic 1	Chronic (long term) aquatic hazard, category 1
4.1/C2	Aquatic Chronic 2	Chronic (long term) aquatic hazard, category 2
4.1/C3	Aquatic Chronic 3	Chronic (long term) aquatic hazard, category 3

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

CLASSIFICATION ACCORDING TO REGULATION (EC) NR. 1272/2008

4.1/C3 Calculation method

- Legend to abbreviations and acronyms used in the safety data sheet:
- ACGIH: American Conference of Governmental Industrial Hygienists
  - ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
  - AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
  - ATE: Acute Toxicity Estimate
  - ATEmix: Acute toxicity Estimate (Mixtures)
  - BCF: Biological Concentration Factor
  - BEI: Biological Exposure Index
  - BOD: Biochemical Oxygen Demand
  - CAS: Chemical Abstracts Service (division of the American Chemical Society).
  - CAV: Poison Center
  - CE: European Community
  - CLP: Classification, Labeling, Packaging.
  - CMR: Carcinogenic, Mutagenic and Reprotoxic
  - COD: Chemical Oxygen Demand
  - COV: Volatile Organic Compound
  - CSA: Chemical Safety Assessment
  - CSR: Chemical Safety Report
  - DMEL: Derived Minimal Effect Level
  - DNEL: Derived No Effect Level.
  - DPD: Dangerous Preparations Directive
  - DSD: Dangerous Substances Directive

# Safety Data Sheet

## PETRONAS GEAR MEP 150

Revision Date: 16/12/2024  
version 1



EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

IC50: half maximal inhibitory concentration

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

IRCCS: Scientific Institute for Research, Hospitalization and Health Care

KAFH: Keep away from heat

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

LDLo: Leathal Dose Low

N.A.: Not Applicable

N/A: Not Applicable

N/D: Not defined/ Not available

NA: Not available

NIOSH: National Institute for Occupational Safety and Health

NOAEL: No Observed Adverse Effect Level

OSHA: Occupational Safety and Health Administration.

PBT: Persistent, Bioaccumulative and Toxic

PGK: Packaging Instruction

PNEC: Predicted No Effect Concentration.

PSG: Passengers

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

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

vPvB: Very Persistent, Very Bioaccumulative.

WGK: German Water Hazard Class.