

# Safety Data Sheet

## PETRONAS GEAR MEP 460

Revision Date: 20/7/2025  
version 4



### **SECTION 1: IDENTIFICATION OF THE HAZARDOUS CHEMICAL AND OF THE SUPPLIER**

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#### 1.1. PRODUCT IDENTIFIER

MIXTURE IDENTIFICATION:

TRADE NAME: **PETRONAS GEAR MEP 460**

Trade code: 77621

#### 1.2. RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE

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

COMPANY:

PETRONAS Lubricants International Sdn. Bhd. (485509-D)

Tower 1, PETRONAS Twin Towers

Kuala Lumpur City Centre

50088 Kuala Lumpur - MALAYSIA

Tel : +603 23014245 / 4253 / 4252

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COMPETENT PERSON RESPONSIBLE FOR SAFETY DATA OF PRODUCT:

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

#### 1.4. EMERGENCY PHONE NUMBER

Emergency Answer Service (24h/7d):

+60 3 6207 4347

### **SECTION 2: HAZARD IDENTIFICATION**

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

Classification of the chemical

Chronic (long term) aquatic hazard, category 3 Harmful to aquatic life with long lasting effects.

ADVERSE PHYSICOCHEMICAL, HUMAN HEALTH AND ENVIRONMENTAL EFFECTS:

No other hazards

#### 2.2. LABEL ELEMENTS

Hazard statements

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.

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P501 Dispose of contents/container in accordance with local, regional, national, international regulation

2.3. OTHER HAZARDS WHICH DO NOT RESULT IN A CLASSIFICATION

No other hazards

SECTION 3: COMPOSITION & INFORMATION OF THE INGREDIENTS OF THE HAZARDOUS CHEMICAL

3.1. SUBSTANCES

3.2. MIXTURES

Severely refined mineral and/or synthetic oils, additives.

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

Residual oils (petroleum), solvent-dewaxed 90.0-100.0 %
CAS: 64742-62-7
Classification: Not classified as hazardous

Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl 0.1-<0.25 %
CAS: Confidential
Classification: Acute Tox. 4, H302; Eye Dam. 1, H318; Skin Sens. 1, H317; Aquatic Chronic 2, H411

(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines 0.05-<0.1 %
CAS: 1213789-63-9
Classification: 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:10

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

SECTION 4: FIRST-AID MEASURES

4.1. DESCRIPTION OF NECESSARY 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.

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### IN CASE OF INHALATION:

Expose affected person to fresh air and obtain medical attention if necessary.

### 4.2. MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED

Refer to section 11.

### 4.3. INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY

Refer to section 4.1.

## SECTION 5: FIRE-FIGHTING MEASURES

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### 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:

Water.

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

UNSUITABLE EXTINGUISHING MEDIA:

None in particular.

### 5.2. SPECIAL HAZARDS ARISING FROM THE CHEMICAL

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. SPECIAL PROTECTIVE ACTIONS FOR FIRE-FIGHTERS

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.

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### 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.

## SECTION 7: HANDLING AND STORAGE

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### 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 open 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 AND PERSONAL PROTECTION

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### 8.1. CONTROL PARAMETERS

OEL: oil mists - TLV/TWA (8 h) : 5 mg/m<sup>3</sup> - TLV/STEL: 10 mg/m<sup>3</sup>

Predicted No Effect Concentration (PNEC) values

(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines

CAS: 1213789-63-9 Exposure Route: Fresh Water; PNEC Limit: 0.376 mg/kg

Exposure Route: Marine water sediments; PNEC Limit: 3.76 mg/kg

Exposure Route: Soil (agricultural); PNEC Limit: 10 mg/kg

Derived No Effect Level (DNEL) values

(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines

CAS: 1213789-63-9 Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects  
Worker Industry: 1 mg/m<sup>3</sup>

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Remark: Skin irritation
Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects
Consumer: 0.04 mg/kg
Remark: Repeated dose toxicity
Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Industry: 0.38 mg/m3
Remark: Repeated dose toxicity
Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Consumer: 0.035 mg/m3
Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects
Worker Industry: 1 mg/m3
Remark: Skin irritation

8.2. INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT (PPE)

APPROPRIATE ENGINEERING CONTROLS:
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

Table with 3 columns: CHEMICAL-PHYSICAL PROPERTY, VALUE, METHOD. Rows include PHYSICAL STATE, APPEARANCE AND COLOUR, ODOUR, ODOUR THRESHOLD, PH, MELTING POINT / FREEZING POINT, INITIAL BOILING POINT AND BOILING RANGE, and FLASH POINT.

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EVAPORATION RATE:	NOT APPLICABLE	
UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:	NOT APPLICABLE	
VAPOUR DENSITY:	NOT APPLICABLE	
VAPOUR PRESSURE:	NOT APPLICABLE	
DENSITY	0.8997 g/cm3	( ASTM D4052 )
SOLUBILITY IN WATER:	IMMISCIBLE	
SOLUBILITY IN OIL:	NOT APPLICABLE	
PARTITION COEFFICIENT (N-OCTANOL/WATER):	NOT APPLICABLE	
AUTO-IGNITION TEMPERATURE:	NOT APPLICABLE	
DECOMPOSITION TEMPERATURE:	NOT APPLICABLE	
KINEMATIC VISCOSITY AT 100°C	30.35 cSt	( ASTM D445 )
KINEMATIC VISCOSITY AT 40°C	459.2 cSt	( ASTM D445 )
EXPLOSIVE PROPERTIES	NOT APPLICABLE	
OXIDIZING PROPERTIES	NOT APPLICABLE	
FLAMMABILITY (SOLID, GAS)	NOT APPLICABLE	
MOLECULAR WEIGHT (G/MOL)	NOT APPLICABLE	

**SECTION 10: STABILITY AND REACTIVITY**

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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.

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.

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Unlike to cause harm if accidentally swallowed in small doses, though 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:

This product is not classified in this hazard class.

### GERM CELL MUTAGENICITY:

Based on the available data, the product is not classified under this hazard class.

### CARCINOGENICITY:

Based on the available data, the product is not classified under this hazard class.

### REPRODUCTIVE TOXICITY:

Based on the available data, the product is not classified under this hazard class.

### 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
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## SECTION 12: ECOLOGICAL INFORMATION

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### 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

Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl

CAS: a) Aquatic acute toxicity: LC50 Fish = 8.5 mg/L 96h

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- 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

(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines

CAS: 1213789-63-9  
a) Aquatic acute toxicity: LD50 Fish Pimephales promelas = 0.11 mg/L 96h

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

### 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. OTHER ADVERSE EFFECTS

No effect known.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

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### 13.1. DISPOSAL 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**

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Not classified as dangerous in the meaning of transport regulations.

### 14.1. UN NUMBER

N/A

### 14.2. UN PROPER SHIPPING NAME



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ADR-Shipping Name: N/A  
IATA-Shipping Name: N/A  
IMDG-Shipping 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, IF APPLICABLE

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

14.5. ENVIRONMENTAL HAZARDS

Toxic ingredients quantity: 0.00  
Very toxic ingredients quantity: 0.00  
Marine pollutant: No  
Environmental Pollutant: Not Applicable

14.6. TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 AND THE IBC CODE

Not Applicable

14.7. SPECIAL PRECAUTIONS FOR USER

Road and Rail (ADR-RID):

ADR exempt: No  
ADR-Label: N/A  
ADR - Hazard identification number: 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 Provisions: N/A

Sea (IMDG):

IMDG-Stowage and handling: N/A  
IMDG-Segregation: N/A  
IMDG-Subsidiary hazards: N/A  
IMDG-Special Provisions: N/A  
IMDG-EMS: N/A

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SECTION 15: REGULATORY INFORMATION

15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS SPECIFIC FOR THE PRODUCT IN QUESTION

- P.U. (A) 310/2013 Occupational Safety and Health (Classification, Labelling and Safety Data Sheets of Hazardous Chemicals)
ACT 514 Occupational Safety and Health Act 1994, Factories and Machinery Act 1974 and all following updates
P.U. (A) 131/2000 Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health)
P.U. (A) 294/2005 Regulation of the Environmental Quality (Scheduled Wastes) and all following updates
ACT 127 of the Environmental Quality Act 1974
P.U. (A) 39/1996 of the Occupational Safety and Health (Control of Industrial Major Accident Hazards)

SECTION 16: OTHER INFORMATION

The mineral base oils contained in this product are severely refined and are therefore not to be considered as carcinogen. They contain less than 3% DMSO extract according to IP 346 method ("Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions – Dimethyl sulphoxide extraction refractive index method", Institute of Petroleum, London).
Sheet complies with the criteria of P.U. (A) 310/2013 (CLASS Regulation).
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.
Date of first edition: 03/07/2018
Revision Date:: 20/07/2025 - version 4
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.
Key literature references and sources:
None
Caption about heading 3 and 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), and H400 (Very toxic to aquatic life).

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H410	Very toxic to aquatic life with long lasting effects.	
H411	Toxic 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
3.4.2/1	Skin Sens. 1	Skin Sensitisation, Category 1
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

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

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.

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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.