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## 1. IDENTIFICATION

## GHS PRODUCT IDENTIFIER

MIXTURE IDENTIFICATION:

TRADE NAME:

**PETRONAS GEAR MEP 320** 

TRADE CODE: 77620

## RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE

**RECOMMENDED USE:** 

Lubricant oil.

**USES ADVISED AGAINST:** 

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

#### SUPPLIER'S DETAILS

COMPANY:

PLI AUSTRALIA PTY. LIMITED Suite 2, Level 6, 85 George Street Parramatta, NSW 2150

Australia

Telephone: 001139 1800 834 081

COMPETENT PERSON FOR SAFETY DATA OF PRODUCT:

Information on the legislation compliance info-regulation.eu@pli-petronas.com

## **EMERGENCY PHONE NUMBER**

Emergency Answer Service (24h/7d): +61 2 8014 4558 18000 74234 (access from Australia only)

## 2. HAZARD IDENTIFICATION

## CLASSIFICATION OF THE HAZARDOUS CHEMICAL

Aquatic Acute 3 Harmful to aquatic life

Aguatic Chronic Harmful to aquatic life with long lasting effects.

ADVERSE PHYSICOCHEMICAL, HUMAN HEALTH AND ENVIRONMENTAL EFFECTS:

No other hazards

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## GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

Hazard statements

H402 Harmful to aquatic life

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

## OTHER HAZARDS WHICH DO NOT RESULT IN A CLASSIFICATION

Other Hazards: No other hazards

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**SUBSTANCES** 

no data available

## **MIXTURES**

Severely refined mineral and/or synthetic oils, additives.

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

<b>QTY</b> 0.1-<0.25 %	Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl		CLASSIFICATION Acute Tox. 4, H302; Eye Dam. 1, H318; Skin Sens. 1B, H317; Aquatic Acute 2, H401; Aquatic Chronic 2, H411
0.05-<0.1 %	1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-nonanethiol	CAS:91648-65- 6 EC:293-927-7	Aquatic Chronic 3, H412
0.05-<0.1 %	(Z)-octadec-9-enylamine	CAS:112-90-3 EC:204-015-5 Index:612-283- 00-3	Acute Tox. 4, H302; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Asp. Tox. 1, H304; Eye Dam. 1, H318; Skin Corr. 1B, H314; STOT RE 2, H373; STOT SE 3, H335, M-Chronic:10, M-Acute:10

90.0-100.0 % Not dangerous oils

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

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## **4. FIRST-AID MEASURES**

### 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.

#### IN CASE OF INHALATION:

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

### SYMPTOMS CAUSED BY EXPOSURE

Refer to section 11.

## MEDICAL ATTENTION AND SPECIAL TREATMENT

Refer to section 4.1.

## **5. FIRE-FIGHTING 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:

Water.

Carbon dioxide (CO2).

EXTINGUISHING MEDIA WHICH MUST NOT BE USED FOR SAFETY REASONS:

None in particular.

### SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

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.

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## SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS

Use suitable breathing apparatus.

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

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

HAZCHEM CODE/EMERGENCY ACTION CODE

N.A.

## **6. ACCIDENTAL RELEASE MEASURES**

## 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 aereosols.

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

Wear personal protection equipment.

See protective measures under point 7 and 8.

## **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.

#### 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

### 7. HANDLING AND STORAGE

### PRECAUTIONS FOR SAFE HANDLING

Avoid ingestion. Avoid frequent and prolonged skin contact and contact with eyes. Provide adequate ventilation to avoid mist or aereosol. Don't smoke or use spare flames; avoid contact with spark or other

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sources of ignition. Don't work near open container to avoid high concentration of vapours. Don't eat or drink during use.

## 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

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS - EXPOSURE STANDARDS, BIOLOGICAL MONITORING

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

Predicted No Effect Concentration (PNEC) values

COMPONENT	CAS-NO. PNEC EXPOSURE	<b>EXPOSURE REMARK</b>
	LIMIT ROUTE	FREOUENCY

1,3,4-91648-0.041 Fresh Water

Thiadiazolidine-2,5- 65-6

dithione, reaction products with hydrogen peroxide and tert-nonanethiol

380. Air

620

mg/l

mg/kg

0.004 Fresh Water

mg/l

908. Marine water

960 sediments

mg/kg

Derived No Effect Level (DNEL) values

COMPONENT	CAS-NO. WOR	WOR	<b>CONS EXPOSU</b>	<b>EXPOSURE</b>	REMARK
	KER	KER	UMER RE	<b>FREQUENCY</b>	

**INDU PROF ROUTE** 

STRY ESSI **ONAL** 

1,3,4-91648-4408. Human Long Term, Thiadiazolidine- 65-6 000 Inhalatio systemic effects 2,5-dithione, mg/m

reaction products with hydrogen peroxide and

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tert-nonanethiol

### 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, ...).

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

## 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.

## 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 4,50012,	
ODOUR:	NOT RELEVANT	
ODOUR THRESHOLD:	NOT RELEVANT	
PH:	N.A.	
MELTING POINT / FREEZING POINT:	N.A.	
INITIAL BOILING POINT AND BOILING RANGE:	250 °C (482 °F)	( ASTM D1120 )
FLASH POINT:	274 °C (525 °F)	( ASTM D92 )
EVAPORATION RATE:	N.A.	
UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:	N.A.	
VAPOUR DENSITY:	N.A.	
VAPOUR PRESSURE:	N.A.	
DENSITY	0.8943 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.	

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DECOMPOSITION TEMPERATURE: N.A.

KINEMATIC VISCOSITY AT 100°C N.A.

KINEMATIC VISCOSITY AT 40°C 326.2 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.	

## 10. STABILITY AND REACTIVITY

### **REACTIVITY**

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

## CHEMICAL STABILITY

The product is stable under normal conditions of use.

## POSSIBILITY OF HAZARDOUS REACTIONS

Not expected under normal conditions of use.

## CONDITIONS TO AVOID

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

## **INCOMPATIBLE MATERIALS**

Strong oxidizing agents, hard acids and bases.

## HAZARDOUS DECOMPOSITION PRODUCTS

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

## **SECTION 11: TOXICOLOGICAL INFORMATION**

### INFORMATION ON TOXICOLOGICAL EFFECTS

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### **ACUTE TOXICITY:**

This product is not classified in this hazard class.

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 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

## 12. ECOLOGICAL INFORMATION

### **ECOTOXICITY**

Eco-Toxicological Information:

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**COMPONENT** 



Harmful to aquatic life

Harmful to aquatic life with long lasting effects.

IDENT. NUMB.

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

**ECOTOX DATA** 

INDEX: 931- a) Aquatic acute toxicity: LC50 Fish = 8.50000 mg/L 96h 384-6

- b) Aquatic chronic toxicity: NOEC Fish = 3.20000 mg/L 96h
- a) Aquatic acute toxicity: EC50 Daphnia = 91.40000 mg/L
- b) Aquatic chronic toxicity: NOEC Daphnia 0.12000 mg/L -21 d
- a) Aquatic acute toxicity: EC50 Daphnia 0.66000 mg/L 21
- a) Aquatic acute toxicity: EC50 Algae = 6.40000 mg/L 96h
- b) Aquatic chronic toxicity: NOEC Algae = 1.70000 mg/L 96h
- 1,3,4-Thiadiazolidine-2,5- CAS: 91648- a) Aquatic acute toxicity: LC50 Fish > 1.00000 mg/L 96h dithione, reaction products 65-6 with hydrogen peroxide and INDEX: 293tert-nonanethiol 927-7
  - b) Aquatic chronic toxicity: NOEC Fish = 1.00000 mg/L 96h
  - a) Aquatic acute toxicity: EC50 Daphnia = 41.00000 mg/L

48h

b) Aquatic chronic toxicity: NOEC Daphnia = 32.00000 mg/L

48h

b) Aquatic chronic toxicity: NOEC Algae = 100.00000 mg/L

72h

- a) Aquatic acute toxicity: EC50 Algae > 100.00000 mg/L 72h
- (Z)-octadec-9-enylamine CAS: 112-90-a) Aquatic acute toxicity: LC50 Fish = 0.11000 mg/L 96h

3 - EINECS: 612-283-00-3 - INDEX: 204-015-5

- a) Aquatic acute toxicity: EC50 Daphnia = 0.01100 mg/L 48h
- b) Aquatic chronic toxicity: NOEC Daphnia = 0.01300 mg/L -

21 d

a) Aquatic acute toxicity: EC50 Algae > 0.10000 mg/L 72h

### PERSISTENCE AND DEGRADABILITY

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Data on biodegradability of product are not available.

#### BIOACCUMULATIVE POTENTIAL

Not available.

### 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.

no data available

### OTHER ADVERSE EFFECTS

No effect known.

## 13. DISPOSAL CONSIDERATIONS

#### **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.

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

The used product and its package have to be treated in accordance with the local council and /or state environment authority.

The package is disposed as waste only after it has been render incapable of containing any substance. Packages may be reused or recycled only if it has been treated to remove any residual contents of the hazardous substance.

When the product or its dirty package are discharged as waste or deposited into a landfill, take care that there is no ignition or explosion source in the vicinity of the disposal site at any time that is capable of igniting the substance. If the substance were to ignite accidentally, take care that no person, or place where a person may legally be, would be exposed to an unsafe level of heat radiation.

### 14. TRANSPORT INFORMATION

**UN NUMBER** 

N/A

UN PROPER SHIPPING NAME

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

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## TRANSPORT HAZARD CLASS(ES)

ADG-Class: -

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

## PACKING GROUP, IF APPLICABLE

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

## **ENVIRONMENTAL HAZARDS**

ADG-Environmental Pollutant: No

Marine pollutant: No

## SPECIAL PRECAUTIONS FOR USER

ADG-Subsidiary hazards -

ADG-S.P.: -

## 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 Provisions: N/A

## Sea (IMDG):

IMDG-Stowage Code: N/A
IMDG-Stowage Note: N/A
IMDG-Subsidiary hazards: N/A
IMDG-Special Provisions: N/A

IMDG-EMS: N/A

## ADDITIONAL INFORMATION

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no data available

14.8. HAZCHEM CODE/EMERGENCY ACTION CODE

N.A.

no data available

## 15. REGULATORY INFORMATION

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

### **REGULATORY REFERENCES:**

Work Health and Safety Act and Regulations (WHS Act and Regulations)

Code of Practice - Labelling of Workplace Hazardous Chemicals (Safe Work Australia)

Code of Practice - Preparation of Safety Data Sheets for Hazardous Chemicals (Safe Work Australia)

Standard for the Uniform Scheduling of Medicines and Poisons - Poisons Standard (SUSMP)

Australian Inventory of Chemical Substances (AICS)

Globally Harmonized System of Classification and Labeling of Chemicals (GHS), Rev. 4th

Regulation (EC) No 1272/2008, with all National and European related legislations, on classification, labelling and packaging of substances and mixtures (CLP)

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

This Safety Data Sheet has been prepared according to the Australian Work Health and Safety (WHS) act and the Code of Practice on preparation of safety data sheets for Hazardous Chemicals.

## LIST OF SUBSTANCES INCLUDED IN THE NICNAS:

All components are in compliance with the National Industrial Chemicals Notification and Assessment Scheme (NICNAS).

#### LIST OF SUBSTANCES INCLUDED IN THE AICS INVENTORY:

All components are in compliance with the Australian Inventory of Chemical Substances (AICS).

## POISON SCHEDULE (SUSMP):

None Specified

### 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 Code of Practice - Preparation of SDS for Hazardous Chemicals and Global Harmonized System (GHS) standards.

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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.

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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:

CODE	DESCRIPTION
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.
H401	Toxic to aquatic life
H402	Harmful 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.

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. ADN: 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

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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.

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.

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## Paragraphs modified from the previous revision:

- SECTION 1: Identification of the substance/mixture and of the company/undertaking
- SECTION 2: Hazards identification
- SECTION 3: Composition/information on ingredients
- SECTION 5: Firefighting measures
- SECTION 7: Handling and storage
- SECTION 8: Exposure controls/personal protection
- SECTION 11: Toxicological information
- SECTION 12: Ecological information
- SECTION 14: Transport information