

Safety Data Sheet

PETRONAS SYNTIUM 3000 XS 5W-30 SP

Revision Date: 3/5/2022
version 1



SECTION 1. IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

PRODUCT IDENTIFIER

MIXTURE IDENTIFICATION:

TRADE NAME:

PETRONAS SYNTIUM 3000 XS 5W-30 SP

TRADE CODE: 70625

RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE

RECOMMENDED USE:

Engine oil.

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:

PLI AUSTRALIA PTY. LIMITED

Suite 2, Level 6,

85 George Street

Parramatta, NSW 2150

Australia

Telephone: 001139 1800 834 081

NZ Distributor:

Oil Distributors Ltd t/a AKTRON

14 Railway Road

Rangiora 7400

Ph: 0800 70 10 10

admin@aktron.co.nz

ERMA Approval Code:

HSR002605

COMPETENT PERSON RESPONSIBLE FOR SAFETY DATA OF PRODUCT:

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

EMERGENCY PHONE NUMBER

Emergency Answer Service (24h/7d):

+64 9 929 1483

0800 446 881 (access from New Zealand only)

SECTION 2. HAZARDS IDENTIFICATION

HSNO HAZARD CLASSIFICATION

Not Classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001

ADVERSE PHYSICOCHEMICAL, HUMAN HEALTH AND ENVIRONMENTAL EFFECTS:

No other hazards

HAZARD INFORMATION

Not classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of

Safety Data Sheet

PETRONAS SYNTIUM 3000 XS 5W-30 SP

Revision Date: 3/5/2022

version 1



Hazard) Regulations 2001.

OTHER HAZARDS WHICH DO NOT RESULT IN A CLASSIFICATION

No other hazards

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCES

N.A.

MIXTURES

Severely refined mineral and/or synthetic oils, additives.

Hazardous components within the meaning of HSNO Act and related classification

| QTY | NAME | IDENT. NUMB. | CLASSIFICATION |
|--------------|--|---|---|
| 15.0-<20.0 % | Distillates, petroleum, hydrotreated heavy paraffinic (649-467-00-8) | CAS:64742-54-7 EC:265-157-1 | 6.1E (aspiration), H304 |
| 1.0-<1.5 % | Bis(nonylphenyl)amine | CAS:36878-20-3 EC:253-249-4 | 9.1D, H413; 6.3B, H316 |
| 0.01-<0.05 % | Phenol, dodecyl-, branched (impurity) | CAS:121158-58-5 EC:310-154-3 Index:604-092-00-9 | 8.3A, H318; 6.8A, H360F; 9.1A, H400; 8.2B, H314; 9.1A, H410 |

70.0-<90.0 % Not dangerous oils

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

SECTION 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.

Safety Data Sheet

PETRONAS SYNTIUM 3000 XS 5W-30 SP

Revision Date: 3/5/2022

version 1



IN CASE OF INHALATION:

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

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

Refer to section 4.1.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED

Refer to section 11.

SECTION 5. FIRE-FIGHTING MEASURES

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).

UNSUITABLE EXTINGUISHING MEDIA:

None in particular.

SPECIFIC 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.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS 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

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.

Safety Data Sheet

PETRONAS SYNTIUM 3000 XS 5W-30 SP

Revision Date: 3/5/2022

version 1



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 MATERIALS 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

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.

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

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

| COMPONENT | CAS-NO. | PNEC | EXPOSURE LIMIT | EXPOSURE ROUTE | EXPOSURE FREQUENCY | REMARK |
|------------------------|----------------|-------------|-----------------------|-----------------------|---------------------------|---------------|
| Bis(nonylphenyl) amine | 36878-20-3 | 0.100 | mg/l | Fresh Water | | |

Safety Data Sheet

PETRONAS SYNTIUM 3000 XS 5W-30 SP

Revision Date: 3/5/2022

version 1



0.010 Soil
mg/l (agricultural)

13200 Air
0.000
mg/kg

13200 Fresh Water
.000
mg/kg

26300 Marine water
0.000 sediments
mg/kg

Derived No Effect Level (DNEL) values

| COMPONENT | CAS-NO. | WOR KER INDU STRY | WOR KER PROF ESSI ONAL | CONS UMER | EXPOSU RE ROUTE | EXPOSURE FREQUENCY | REMARK | |
|-------------------------------|----------------|----------------------------|------------------------------------|--------------|-------------------------|--------------------------------|--------------------------------|--|
| Bis (nonylphenyl) amine | 36878- 20-3 | 0.620 | | | Human Dermal | Long Term, systemic effects | | |
| | | 4.370 | | | Human Inhalatio n | Long Term, systemic effects | | |
| | | | | 0.310 | | Human Dermal | Long Term, systemic effects | |
| | | | | 1.090 | | Human Inhalatio n | Long Term, systemic effects | |
| | | | | 0.310 | Human Oral | Long Term, systemic effects | | |

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, ...).

8.3. 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:

Safety Data Sheet

PETRONAS SYNTIUM 3000 XS 5W-30 SP

Revision Date: 3/5/2022

version 1



PETRONAS

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 | |
| 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: | 230 °C (446 °F) | (ASTM D92) |
| EVAPORATION RATE: | N.A. | |
| UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS: | N.A. | |
| VAPOUR DENSITY: | N.A. | |
| VAPOUR PRESSURE: | N.A. | |
| DENSITY | 0.854 g/cm ³ | (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 | 10.73 cSt | (ASTM D445) |
| KINEMATIC VISCOSITY AT 40°C | 64.73 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. | |

Safety Data Sheet

PETRONAS SYNTIUM 3000 XS 5W-30 SP

Revision Date: 3/5/2022

version 1



SECTION 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

11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

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:

Safety Data Sheet

PETRONAS SYNTIUM 3000 XS 5W-30 SP

Revision Date: 3/5/2022

version 1



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.

RESPIRATORY IRRITATION AND NARCOTIC EFFECTS:

This product is not classified in this hazard class, but inhalation of mists and vapours generated at elevated temperatures sometimes may cause respiratory irritation.

Toxicological Information of the Preparation

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

Toxicological information on main components of the mixture:

Distillates, a) acute toxicity LD50 Oral Rat > 5000.00000 mg/kg
petroleum,
hydrotreated heavy
paraffinic (649-467-
00-8)

LD50 Skin Rabbit > 2000.00000 mg/kg

LC50 Inhalation Rat > 5.53000 mg/l

b) skin
corrosion/irritation Skin Irritant Rabbit - Based on available data, the classification criteria are not met

c) serious eye
damage/irritation Eye Irritant Rabbit - Based on available data, the classification criteria are not met

d) respiratory or
skin sensitisation Skin Sensitization Rabbit - No data available for the product

Phenol, dodecyl-, g) reproductive No Observed Adverse Effect Level Oral two-generation study
branched (impurity) toxicity Rat = 15.00000 mg/kg 24h

Safety Data Sheet

PETRONAS SYNTIUM 3000 XS 5W-30 SP

Revision Date: 3/5/2022

version 1



PETRONAS

No Observed Adverse Effect Level Oral one-generation study
Rat = 5.00000 mg/kg 24h

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure
Toxicological kinetics,
metabolism and distribution
information
- i) STOT-repeated exposure
- j) aspiration hazard

SECTION 12. ECOLOGICAL INFORMATION

ECOTOXICITY

Eco-Toxicological Information:

This product is not classified dangerous for the environment.

The available data on components are not sufficient to classify the mixture regarding to the terrestrial ecotoxicity.

List of Eco-Toxicological properties of the components

| COMPONENT | IDENT. NUMB. | ECOTOX DATA |
|--|--|--|
| Distillates, petroleum, hydrotreated heavy paraffinic (649-467-00-8) | CAS: 64742-54-7 - EINECS: 265-157-1 | a) Aquatic acute toxicity : LC50 Fish Pimephales promelas > 100.00000 mg/L 96h |
| | | b) Aquatic chronic toxicity : NOELR Oncorhynchus mykiss >= 1000.00000 mg/L |
| | | b) Aquatic chronic toxicity : NOEC Fish > 1.00000 mg/L |
| | | b) Aquatic chronic toxicity : NOEC Daphnia > 1.00000 mg/L - water flea |

PERSISTENCE AND DEGRADABILITY

Safety Data Sheet

PETRONAS SYNTIUM 3000 XS 5W-30 SP

Revision Date: 3/5/2022

version 1



Data on biodegradability of product are not available.

N.A.

BIOACCUMULATIVE POTENTIAL

Not available.

N.A.

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.

N.A.

OTHER ADVERSE EFFECTS

No effect known.

SECTION 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.

The used product and its package have to be treated in accordance with the Hazardous Substances (Disposal) Notice 2017.

The package is disposed as waste only after it has been rendered incapable of containing any substance. Recover if possible. In so doing, comply with the local and national regulations currently in force.

Packages may be reused or recycled only if it has been treated to remove any residual contents of the hazardous substance.

SPECIAL PRECAUTIONS TO BE TAKEN DURING DISPOSAL

When the product or its dirty package are discharged as waste or deposited into a landfill, avoid at any time it come into contact with Class 1 or Class 5 products.

Take care that there is no ignition 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.

SECTION 14. TRANSPORT INFORMATION

UN NUMBER

N/A

Safety Data Sheet

PETRONAS SYNTIUM 3000 XS 5W-30 SP

Revision Date: 3/5/2022

version 1



UN PROPER SHIPPING NAME

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

TRANSPORT HAZARD CLASS(ES)

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

PACKING GROUP, IF APPLICABLE

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

ENVIRONMENTAL HAZARDS

Toxic ingredients quantity: 0.00
Very toxic ingredients quantity: 0.00
Marine pollutant: No
Environmental Pollutant: No

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 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

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

Safety Data Sheet

PETRONAS SYNTIUM 3000 XS 5W-30 SP

Revision Date: 3/5/2022

version 1



N.A.

SECTION 15. REGULATORY INFORMATION

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

HSNO APPROVAL

Excluded from the Act because Not hazardous lubricant

HSNO CONTROLS

Approved Handler

No data available

Substances covered under this Group Standard will not require an approved handler.

NEW ZEALAND INVENTORY OF CHEMICALS (NZIOC)

All components are in compliance with the chemical inventory requirements.

REGULATORY REFERENCES

Hazardous Substances and New Organisms Act 1996 and following amended

Environmental Protection Authority Act 2011 and following amended

Hazardous Substances (Minimum Degrees of Hazard) Notice 2017

Hazardous Substances (Classification) Notice 2017

Hazardous Substances (Labelling) Notice 2017

Hazardous Substances (Safety Data Sheets) Notice 2017

Hazardous Substances (Disposal) Notice 2017

Hazardous Substances (Hazardous Property Controls) Notice 2017

Globally Harmonized System of Classification and Labelling of Chemicals (GHS, 5th revised edition)

Thresholds and Classifications Under the Hazardous Substances and New Organisms Act 1996 (January 2012)

Assigning a Product to a HSNO Approval (May 2013/Revised June 2014)

Labelling of Hazardous Substances: Hazard and Precautionary Information (January 2012 EPA0094)

Preparation of Safety Data Sheets - Approved Code of Practice Under the HSNO Act 1996 (HSNO CoP 8-109-06)

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

Safety Data Sheet

PETRONAS SYNTIUM 3000 XS 5W-30 SP

Revision Date: 3/5/2022

version 1



PETRONAS

("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 Approved Code of Practice Under the HSNO Act 1996 and Global Harmonized System (GHS) standards.

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: 03/05/2022

Revision Date: 03/05/2022 - version 1

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 |
|-------------|---|
| H304 | May be fatal if swallowed and enters airways. |
| H314 | Causes severe skin burns and eye damage. |
| H316 | Causes mild skin irritation |
| H318 | Causes serious eye damage. |
| H360F | May damage fertility. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H413 | May cause long lasting harmful effects to aquatic life. |

Description of the HSNO Classification codes used in section 2 or 3:

| CODE | DESCRIPTION |
|----------------------|--|
| 6.1E (aspiration) | Aspiration hazard. |
| 6.3B | Substances that are mildly irritating to the skin. |
| 6.8A | Substances that are known or presumed human reproductive or developmental toxicants. |
| 8.2B | Substances that are corrosive to dermal tissue UN PGII. |
| 8.3A | Substances that are corrosive to ocular tissue. |
| 9.1A | Substances that are very ecotoxic in the aquatic environment. |
| 9.1D | Substances that are slightly harmful to the aquatic environment or are otherwise designed for biocidal action. |

Legend to abbreviations and acronyms used in the safety data sheet:

Safety Data Sheet

PETRONAS SYNTIUM 3000 XS 5W-30 SP

Revision Date: 3/5/2022

version 1



PETRONAS

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

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

Safety Data Sheet

PETRONAS SYNTIUM 3000 XS 5W-30 SP

Revision Date: 3/5/2022

version 1



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.