Safety Data Sheet

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

TERGITOL™ 26-L-9 Surfactant

Version 1.2 Release Date: 22.12.2021

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

Product identifier

Product name : TERGITOL™ 26-L-9 Surfactant

Recommended use of the chemical and restrictions on use

Recommended use : Detergent, emulsifying agent, industrial and household cleaner
Restrictions on use : No restriction of use

Manufacturer or supplier's details

Headquarters
Company : PETRONAS Chemicals Group Berhad
Address : Tower 1, PETRONAS Twin Towers,
Kuala Lumpur City Centre,
50088 Kuala Lumpur
Malaysia

Plant Site
Company : PETRONAS Chemicals Derivatives Sdn Bhd
Address : Administration Complex,
Kerteh Industrial Area,
KM 106 Jalan Kuala Terengganu - Kuantan,
24300 Kerteh, Kemaman,
Terengganu, Malaysia
Emergency telephone number : (+609) 830 7555
999 (Bomba)
National Poison Centre:
+604-6570099 (Mon-Fri : 8.10 am - 5.10 pm)
+6012-4309499 (Mon-Fri : 5.10 pm - 10.10 pm) &(Sat, Sun & Public holiday : 8.10 am - 5.10 pm)

SECTION 2: Hazards identification

Classification of the hazardous chemical

Hazardous to the aquatic environment- chronic hazard : Category 3

Label elements

Hazard pictograms : None

Signal word : None

Hazard statements : H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**
P273 Avoid release to the environment.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

No information available.

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

Substance / Mixture : UVCB
Chemical nature : Primary alcohol ethoxylate

Components

Chemical name	CAS-No.	Concentration (%)
Alcohols, C12-14, ethoxylated	68439-50-9	>= 90 -<= 100

SECTION 4: First aid measures

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

In case of eye contact : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.
Do NOT give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a medical doctor.

General advice : Do not leave the victim unattended.

Most important symptoms and effects, both acute and delayed : No information available.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media : Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.

Unsuitable extinguishing media : High volume water jet

Physicochemical hazards arising from the chemical

Special protective equipment and precautions for fire-fighters

Special protective equipment for firefighters : Wear positive-pressure self-contained breathing apparatus (SBCA) and protective fire fighting clothing (includes fire fighting helmet, coat, pants, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.
Wear self-contained breathing apparatus for firefighting if

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

SECTION 6: Accidental release measures

Environmental precautions	:	Prevent further leakage or spillage if safe to do so.
Methods and materials for containment and cleaning up	:	Neutralise with acid. Keep in suitable, closed containers for disposal. Wipe up with absorbent material (e.g. cloth, fleece).

SECTION 7: Handling and storage

Handling

Precautions for safe handling

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	Do not breathe vapours/dust. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national regulations. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling. Do not swallow. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.

Storage

Conditions for safe storage, including any incompatibilities

Conditions for safe storage	:	Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply with the technological safety standards.
Further information on storage stability	:	No decomposition if stored and applied as directed.

SECTION 8: Exposure controls and personal protection

Control parameters

Contains no substances with occupational exposure limit values.

Individual protection measures, such as personal protective equipment

Eye/face protection	:	Eye wash bottle with pure water. Tightly fitting safety goggles
Skin protection	:	Impervious clothingChoose body protection according to the amount and concentration of the dangerous substance at the work place.
Hand protection		
Remarks	:	The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Hygiene measures	:	Wash hands before breaks and at the end of workday.

SECTION 9: Physical and chemical properties

Appearance	:	Liquid
Colour	:	Slightly Yellow
Odour	:	mild
Odour Threshold	:	No data available
pH	:	11.4
Melting point/freezing point	:	> 20.0 °C
Initial boiling point and boiling range	:	150 °C
Flash point	:	200.0 °C Method: ASTM D 93
Evaporation rate	:	No data available
Upper explosion limit / Upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Vapour pressure	:	< 0.013 hPa (20 °C)
Relative vapour density	:	No data available
Relative density	:	0.9892 (55 °C)
Density	:	0.9750 g/cm3 (55 °C)
Solubility(ies)		
Water solubility	:	soluble
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	500 °C
Viscosity		
Viscosity, dynamic	:	48.13 mPa.s (20 °C)Method: ASTM D 445
Viscosity, kinematic	:	33.78 mm2/s (40 °C)Method: ASTM D 445

SECTION 10: Stability and reactivity

Reactivity	:	Hazardous polymerisation does not occur.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
Incompatible materials	:	Strong oxidizing agents
Hazardous decomposition products	:	Fumes, smoke, carbon monoxide Decomposition products depend upon temperature, air supply and the presence of other materials. Fumes, smoke, carbon monoxide

SECTION 11: Toxicological information

Acute toxicity

Components:
Alcohols, C12-14, ethoxylated:

Acute oral toxicity	:	LD50 (Rat, male and female): > 2,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat, male and female): > 1,600 mg/m3 Exposure time: 4 h Test atmosphere: aerosol
Acute dermal toxicity	:	LD50 (Rat, male and female): > 2,000 mg/kg

Skin corrosion/irritation

Components:
Alcohols, C12-14, ethoxylated:

Species	:	Rabbit
Result	:	No skin irritation

Serious eye damage/eye irritation

Components:

Alcohols, C12-14, ethoxylated:

Species	:	Rabbit
Result	:	No eye irritation

Respiratory or skin sensitisation

Components:
Alcohols, C12-14, ethoxylated:

Exposure routes	:	Skin contact
Species	:	Guinea pig
Result	:	Not sensitising
Exposure routes	:	Inhalation
Remarks	:	No data available

Germ cell mutagenicity

Components:
Alcohols, C12-14, ethoxylated:

Germ cell mutagenicity - Assessment	:	Not mutagenic in vivo and in vitro

Carcinogenicity

Components:
Alcohols, C12-14, ethoxylated:

Carcinogenicity - Assessment	:	No data available

Reproductive toxicity

Components:
Alcohols, C12-14, ethoxylated:

Reproductive toxicity - Assessment	:	No toxicity to reproduction

STOT - single exposure

Components:
Alcohols, C12-14, ethoxylated:
Remarks : No data available

STOT - repeated exposure

Components:
Alcohols, C12-14, ethoxylated:
Remarks : NOAEL (Rat,13 week oral) >= 500 mg/kg bw/d

Aspiration toxicity

Components:
Alcohols, C12-14, ethoxylated:
Statement on Aspiration Tox. : No data available

SECTION 12: Ecological information

Ecotoxicity

Product:

Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 1.1 mg/l Exposure time: 48 h Test Type: Immobilization Method: OECD Test Guideline 202

Components:
Alcohols, C12-14, ethoxylated:

Toxicity to fish	:	Remarks: No data available
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 1.1 mg/l Exposure time: 48 h
Toxicity to algae	:	Remarks: No data available
Toxicity to fish (Chronic toxicity)	:	NOEC (Pimephales promelas (fathead minnow)): 0.11 - 0.28 mg/l Exposure time: 30 d
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): 0.77 mg/l Exposure time: 21 d
Toxicity to microorganisms	:	EC50 (Pseudomonas putida): > 10 g/l Exposure time: 16.9 h

Persistence and degradability

Product:

Biodegradability	:	Result: Readily biodegradable. Method: OECD Test Guideline 301D

Components:
Alcohols, C12-14, ethoxylated:
Biodegradability : Result: Readily biodegradable.

Bioaccumulative potential

Components:

Alcohols, C12-14, ethoxylated:

Bioaccumulation	:	Bioconcentration factor (BCF): 237

Mobility in soil

Product:

Mobility	:	Medium: Soil Remarks: No data available

Components:
Alcohols, C12-14, ethoxylated:

Mobility	:	Medium: Soil Remarks: No data available

Other adverse effects

Product:

Additional ecological information	:	Harmful to aquatic life with long lasting effects.

Components:

Alcohols, C12-14, ethoxylated:

Additional ecological information	:	No data available

SECTION 13: Disposal information

Disposal methods

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

SECTION 14: Transport information

International Regulations

UNRTDG
Not regulated as a dangerous good

IATA-DGR
Not regulated as a dangerous good

IMDG-Code
Not regulated as a dangerous good

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

Pollution category	:	Y
Ship type	:	2

SECTION 15: Regulatory information

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

Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013.
Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000.

The components of this product are reported in the following inventories:

TCSI	:	On the inventory, or in compliance with the inventory.
TSCA	:	All substances listed as active on the TSCA inventory
AICS	:	On the inventory, or in compliance with the inventory.
DSL	:	All components of this product are on the Canadian DSL
ENCS	:	Not in compliance with the inventory
ISHL	:	Not in compliance with the inventory
KECI	:	On the inventory, or in compliance with the inventory.
PICCS	:	On the inventory, or in compliance with the inventory.
IECSC	:	On the inventory, or in compliance with the inventory.
NZIoC	:	Not in compliance with the inventory

SECTION 16: Other information

Further information

Sources of key data used to compile the Safety Data Sheet	:	ECHA - European Chemicals Agency
Date format	:	dd.mm.yyyy

Full text of other abbreviations

(Q)SAR	-	(Quantitative) Structure Activity Relationship
ACGIH	-	American Conference of Governmental Industrial Hygienists
AICS	-	Australian Inventory of Chemical Substances
ANTT	-	National Agency for Transport by Land of Brazil
ASTM	-	American Society for the Testing of Materials
bw	-	Body weight
C	-	Ceiling
CCHC	-	Chemicals Classification and Hazard Communication
CEIL	-	Ceiling
ChV	-	Chronic Toxicity Value
CMR	-	Carcinogen, Mutagen or Reproductive Toxicant
CPR	-	Controlled Products Regulations

DIN	-	Standard of the German Institute for Standardisation
DSL	-	Domestic Substances List (Canada)
ECx	-	Concentration associated with x% response
ELx	-	Loading rate associated with x% response
EmS	-	Emergency Schedule
ENCS	-	Existing and New Chemical Substances (Japan)
ErCx	-	Concentration associated with x% growth rate response
ERG	-	Emergency Response Guide
GHS	-	Globally Harmonized System of Classification and Labelling of Chemicals
GLP	-	Good Laboratory Practice
IARC	-	International Agency for Research on Cancer
IATA	-	International Air Transport Association
IBC	-	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50	-	Half maximal inhibitory concentration
ICAO	-	International Civil Aviation Organization
ICOP	-	Industry Code of Practice on Chemicals Classification and Hazard Communication
IECSC	-	Inventory of Existing Chemical Substances in China
IMDG	-	International Maritime Dangerous Goods
IMO	-	International Maritime Organization
ISHL	-	Industrial Safety and Health Law (Japan)
ISO	-	International Organisation for Standardization
KECI	-	Korea Existing Chemicals Inventory
LC50	-	Lethal Concentration to 50 % of a test population
LD50	-	Lethal Dose to 50% of a test population (Median Lethal Dose)
MARPOL	-	International Convention for the Prevention of Pollution from Ships
MY PEL	-	Malaysian Permissible Exposure Limit
n.o.s.	-	Not Otherwise Specified
Nch	-	Chilean Norm
NITE	-	National Institute of Technology and Evaluation
NO(A)EC	-	No Observed (Adverse) Effect Concentration
NO(A)EL	-	No Observed (Adverse) Effect Level
NOELR	-	No Observable Effect Loading Rate
NOM	-	Official Mexican Norm
NTP	-	National Toxicology Program
NZIoC	-	New Zealand Inventory of Chemicals
OCSPP	-	Office of Chemical Safety and Pollution Prevention
OECD	-	Organization for Economic Co-operation and Development
PBT	-	Persistent, Bioaccumulative and Toxic
PICCS	-	Philippines Inventory of Chemicals and Chemical Substances
REACH	-	Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
SADT	-	Self-Accelerating Decomposition Temperature
SDS	-	Safety Data Sheet
STEL	-	Short Term Exposure Limit
TCSI	-	Taiwan Chemical Substance Inventory
TDG	-	Transportation of Dangerous Goods
TSCA	-	Toxic Substances Control Act (United States)
TWA	-	Time Weighted Average
UN	-	United Nations
UNRTDG	-	United Nations Recommendations on the Transport of Dangerous Goods
UVCB	-	Unknown or Variable Composition, Complex Reaction Products and Biological Materials

vPvB	-	Very Persistent and Very Bioaccumulative
WHMIS	-	Workplace Hazardous Materials Information System
LLx	-	Loading rate associated with x% lethality effect

Disclaimer

To the best of PETRONAS knowledge, the information contained herein is accurate and reliable as of the date of publication. Any use of information provided should be undertaken in consultation with a professional with the appropriate expertise, as necessary in the circumstances. No warranty, express or implied, is given as to the quality, accuracy, reliability, applicability or completeness of the contents of this SDS. The information presented here pertains only to the product as shipped. It is the responsibility of the customer to ensure that any activities relating to the product comply with all federal, state or local laws. Any hazards associated with any product regulatory requirements are subject to change and may differ between various locations. Except to the extent required by law, re-publication or retransmission of this SDS, in whole or in part, is strictly prohibited. PETRONAS does not take responsibility for use, transportation, storage, handling, packaging or disposal of the product that is beyond our knowledge and recommendation by this SDS.

Product Stewardship Advisory:

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

MY / EN