

## **Safety Data Sheet (SDS)**

Product Name : Turalik T 100

Revision : 3

Validation Date : January 2<sup>nd</sup> 2022

Valid Period : 5 (five) years

### **PT Pertamina Lubricants**

Grha Pertamina, Pertamax Tower 15<sup>th</sup>-17<sup>th</sup> floor Jl. Medan Merdeka Timur No. 11-13 Central Jakarta 10110 Indonesia



1. Identification

: Turalik T 100 Product

identification/name

Identification number

the chemical and restrictions on use

· Recommended use of : TURALIK T series is recommended for mobile and stationary hydraulic system, especially operating in wide range operation temperature

: PT Pertamina Lubricants Manufacturer's details

Grha Pertamina, Pertamax Tower 15th-17th floor

Jl. Medan Merdeka Timur No. 11-13 Central Jakarta 10110 Indonesia

T: +62 21 3190 7190 (1-3)

Emergency phone

number

: 135

### 2. Hazard Identification

• Classification of the product : Hazardous to Aquatic Environment, category 4

: No label GHS label elements

: No signal word Signal word

Hazard statement(s):

Physical hazard

No hazard statement

Health hazard

No hazard statement

Environmental hazard

H413 - May cause long-lasting harmful effects to aquatic life

Precautionary statement(s):

General

No precautionary statement

Preventive

P273 - Avoid release to the environment.

Response

No precautionary statement

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#### 2. Hazard Identification

Storage

No precautionary statement

Disposal

P501 - Dispose of contents/container to authorized waste collector

Pictogram : No pictogram

Other hazards which do not : Long term exposure may cause skin and eye

result in classification irritation

### 3. Composition/Information on the Ingredients

Chemical identity : Hydrocarbon petroleum and additive

Common/trade name/synonym : Turalik T 100
 CAS/EC number : confidential
 Impurities and stabilizing additives : confidential

Mixtures : (no hazardous material)

Chemical Ingredients	CAS Number	% wt as product
Zinc Alkyldithiophosphate	<u>66649-42-3</u>	<u>0,4-0,49</u>

#### 4. First Aid Measures

Description of necessary first aid measure:

General: May not cause any health hazard in normal condition

Eye contact : Rinse with plenty of water. If irritation occurs, refer to a physician. Skin contact : Rinse the contaminated skin with absorbent or towel. Wash the

contaminated skin with water and soap. Remove the clothes. Get medical advice if further irritation occurs immediately. Wash the

contaminated clothing before reuse.

Inhalation :Remove victim to fresh air and keep at rest in comfortable a

position for breathing

Ingestion : Give plenty of water immediately (> 500ml) (give active carbon if

needed) in case spontaneous vommiting occurs. May cause breathing difficulty. Give water repeatedly and artificial respiration. Do not give anythingthrough mouth if unconsciousness occurs. Get

medical advice.

ost important symptoms/effects (acute and delayed):

No data

• Indication of immediate medical attention and special treatment needed:

No data

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## 4. First Aid Measures

## 5. Fire-fighting Measures

• Suitable extinguishing media : water, foam, and dry chemical

Specific hazards arising from the

chemical

Other hazardous combustion products : No other hazardous combustion

Flash point °C : 252 (ASTM D-92)

Hazardous chemical decomposition : No data available

Special protective actions for fire :

fighters

a. Dry Chemical

Spray to the origin of fire in the same direction with the wind.

b. Foam

If fire is in a container, spray the foam to inner wall of the container and not to the ignited liquid in the same direction with the wind. If it is spill, spray to the origin of fire in the same direction with wind until all the fire covered. Do not dispose the spill to the drainage, sewage system, and clean water source (drinking water).

Special protective equipment : If fire occurs in limited/indoor/closed

area, fire fighter operator must wear Self-Contained Breathing Apparatus

(SCBA).

#### **6. Accidental Release Measures**

- Personal precautions, protective equipment, and emergency procedures Keep away from fire sources. Avoid direct contact with skin, eye, and clothes (see section 8).
- Environmental precautions
   Prevent oil spill goes into drainage, sewage system, and soil.
- Procedures

Report spill according to the valid system and procedures. If spill is estimated can goes into drainage or streams, do immediate report to the authority.

Methods and materials for containment and cleaning up
 Do oil spill control with oil spill kit (absorbents: sawdust, sorbent pad/pillow, etc,
 and other fire retardant material). Clean and dispose cleaned material in the right
 waste disposal.

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### 7. Handling and Storage

- · Preventive procedure for safe handling
- Precautions for safe handling
   Do not get in eyes, skin, and clothes. See section 8 for personal protective
   equipment suggestions when handling this product. Do not inhale vapor from hot
   material, wash after use. Avoid release/spill.
- Conditions for safe storage (including any incompatibilities)
   Store in closed and labeled container. Keep away from oxidizer, hot material, or combustible materials. Store at temperatures not exceeding 50 Celsius degrees.
- Recommended/compatible packaging material
   Use mild carbon steel or high density polyethylene for container or container coating.
- Other information/advice
   Container made from polyethylene cannot be exposed to high temperature because
   it is able to change the shape.

### **8. Exposure Controls and Personal Protection**

Control parameters

Exposure limits : No data available

Biological limit value : No data available

Appropriate engineering controls :

Ventilation : In common condition, special ventil

ation requirement is not needed

Individual protection measures (such as personal protective equipment) :

Respiratory protection : In common condition, no special

requirements needed.

Eye protection : Use eye protective equipment

(chemical goggles dan face shield)

if material heated.

Hand protection : In common condition, no special

requirement needed. If there is hand contact probability, use standardized and relevant gloves (e.g. EN374, US: F739) which has been agreed and made from proven material that can give protection from the chemical, neophrene or neophrene rubber gloves or nitrile.

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Skin and body protection

: No special work clothing (without coverall) for skin or other body protection.

Hygiene Practices :

- No data

9. Physical and Chemical Properties									
SAE Number Specific Weight, 15°C, Kg/l	: :	No data available 0.8645	(ASTM D-4052)						
Appearance (physical state, color, etc) Odor Odor threshold		L 0.5 No data available	(ASTM D-1500)						
pH Melting/freezing point, °C Initial boiling point and boiling range		No data available -30 No data available	(ASTM D-5950)						
Flammable properties (solid, gas) Flash point (COC), °C Evaporation rate Flammability (solid, gas) Lower/upper flammability and/or explosive limits		252 No data available Low No data available No data available	(ASTM D-92)						
Vapor pressure Vapor density Relative density Solubility		No data available No data available No data available							
<ul> <li>Water solubility</li> <li>Other solvent solubility</li> <li>Partition coefficient: n-octanol/water</li> <li>Auto-ignition temperature</li> <li>Decomposition temperature</li> </ul>		No data available No data available No data available No data available No data available							
Kinematic viscosity at 40°C, cSt	:	100.1	(ASTM D-445)						

### 10. Stability and reactivity

• Chemical stability and reactivity : Stable for normal use and under normal condition

Possibility of hazardous reactions : No data available

Condition to avoid : Temperature above normal condition

Incompatible materials : Strong oxides, strong acid and base,

Hazardous decomposition pruducts : No data available

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## 11. Toxicological Information

Acute toxicity

Skin corrosion/irritation No data available. Suspected to cause mild

irritation based on test to similar material and

component.

Serious damage/ eye

irritation

No data available. It is expected to cause

slightly irritation based on test to similar

material and component.

Respiratory/skin sensitization

No data available. It is not expected that inhaling material fog or vapor after heating will cause irritation and upper respiratory

problem.

No data available. It is expected that it is not Germ cell mutagenicity

mutagen based on test to the components.

Carcinogenicity No data available. It is expected that it is not

carcinogen based on test to the components.

No data available. It is expected that it is not Reproductive toxicity

reproductive toxicant based on test to the

components.

Systemic Target Organ

Toxicity-single exposure

No data available. It is expected that it does not cause organ damage because of single

exposure.

Systemic Target Organ:

Toxicity-repeated

exposure

No data available. It is expected that it does not cause organ damage because of long term or repeated exposure based on test to

the components.

No data available. It is expected that it does Aspiration hazard

not give aspiration risk based on its materials

physical-chemical properties

Information on the likely:

routes of exposure

No data vailable

related the: **Symptoms** to physical, chemical. and

toxicological characteristics

No data available

Delayed and immediate effects: and also chronic effects from

short and long term exposure

No data available

Numerical measures of toxicity : No data available

Interactive effects

Where specific chemical data

are not available

No data available

No data available Mixtures

Mixture ingredient versus

inforrmation

No data available

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## 11. Toxicological Information

Other information

No data available

### 12. Ecological Information

Ecotoxicity:

Materials – May cause harm to aquatic organism. May cause long lasting harmful effect to aquatic life. Soil seepage may cause soil water contamination or aquifer. No potential to cause air pollution and ozone layer damage.

- Persistence and degradability :
  - Biodegradation:

Lubricant base component – Suspected has biodegradation properties

Bioaccumulative potential

This product is estimated that will not accumulate biologically through food chain in the environment.

Mobility in soil :

Lubricant base component – Low solubility, floating, and suspected can move from water to land. It is also suspected that will crack to sedimentation and wastewater particle.

Other adverse effect: No data

\*Information given is based on available material data, material component data, and similar material data.

### 13. Disposal Considerations

- Disposal Methods
  - Product Disposal

Lubricant waste may not dispose with domestic waste and must be manage according to the valid government regulation. As alternative, the waste disposal can be done by authorized third party.

- Packaging/container Disposal

Two-hundred (200) capacity drum must be in empty condition, labeled, and returnes to the supplier or authorized party that have license to do recondition drum waste. Uncontaminated metal and plastic packaging can be recycled if possible, or disposed as domestic waste.

### 14. Transport Information

ICAO/IATA 1

UN Number : Not regulated

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UN Proper Shipping Name : Not regulated

Transport Hazard class(es) : Not regulated

Packing Group (if applicable) : Not regulated

Environmental Hazards : Not regulated

Special Precautions for User : Not regulated

ICAO/IATA II

UN Number : Not regulated

UN Proper Shipping Name : Not regulated

Transport Hazard class(es) : Not regulated

Packing Group (if applicable) : Not regulated

Environmental Hazards : Not regulated

Special Precautions for User : Not regulated

IMDG

UN Number : Not regulated

UN Proper Shipping Name : Not regulated

Transport Hazard class(es) : Not regulated

Packing Group (if applicable) : Not regulated

Environmental Hazards : Not regulated

Special Precautions for User : Not regulated

US DOT Non Bulk

UN Number : Not regulated

UN Proper Shipping Name : Not regulated

Transport Hazard class(es) : Not regulated

Packing Group (if applicable) : Not regulated

Environmental Hazards : Not regulated

Special Precautions for User : Not regulated

USCG Compatibility : 34-Esters

UN Number : Not regulated

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UN Proper Shipping Name : Not regulated

Transport Hazard class(es) : Not regulated

Packing Group (if applicable) : Not regulated

Environmental Hazards : Not regulated

Special Precautions for User : Not regulated

Canada

UN Number : Not regulated

UN Proper Shipping Name : Not regulated

Transport Hazard class(es) : Not regulated

Packing Group (if applicable) : Not regulated

Environmental Hazards : Not regulated

Special Precautions for User : Not regulated

Mexico

UN Number : Not regulated

UN Proper Shipping Name : Not regulated

Transport Hazard class(es) : Not regulated

Packing Group (if applicable) : Not regulated

Environmental Hazards : Not regulated

Special Precautions for User : Not regulated

Indonesia

UN Number : Not regulated

UN Proper Shipping Name : Not regulated

Transport Hazard class(es) : Not regulated

Packing Group (if applicable) : Not regulated

Environmental Hazards : Not regulated

Special Precautions for User : Not regulated

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### 15. Regulatory information\*

- Safety, health, and environmental regulations specific for the product in question :
  - Globally Harmonized System of Classification and Labelling of Chemical (GHS), Rev. 4th.
  - Work Health and Safety Act and Regulations (WHS Act and Regulations)
  - Code of Practice Preparation of Safety Data Sheets for Hazardous Chemicals (Safe Work Australia)
  - Code of Practice Labelling of Safety Data Sheets for Hazardous Chemicals (Safe Work Australia)
  - Registration, Evaluation, Authorization and Restriction of Chemical (REACH)
- List of Substances are compliance with:
  - The National Industrial Chemical Notification and Assessment Scheme (NICNAS)
  - The Australian Inventory of Chemical Substances (AICS)

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SDS validation date : January 2<sup>nd</sup> 2022

SDS revision date : January 2<sup>nd</sup> 2022

Revision explanation : Adjusted to Peraturan Menteri Perindustrian Nomor

23 Tahun 2013 tentang Perubahan Atas Perubahan Peraturan Menteri Perindustrian Nomor 87/M-IND/PER/9/2009 tentang Sistem Harmonisasi Global

Klasifikasi dan Label pada Bahan Kimia

 Key/legend to abbreviations and acronyms used in SDS SDS – Safety Data Sheet

CAS – Chemical Abstracts Service (unique identitiy

number for subtance and mixture)

SAE number – Society of Automotive Engineers (code used for viscosity specification of lubricant)
ASTM – American Standard Testing and Material
UN Number – United Nations Number (used for

transportation classification)

ICAO/IATA – International Civil Aviation

Organization/International Air Transport Association IMDG – International Maritime Dangerous Goods USCG Compatibility – US Coast Guard Compatibility (classification of chemical contained cargo which

transported with ship)

 Key literature references and sources for data used to compile the SDS No data

• Further information:

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#### 16. Other information

- Data in this SDS is available only for material/product above (Turalik T 100).
- It is not applicable for particular process which is not suggested or mixed with other materials.
- The risk of this product condition and compatibility for other use, which is not guaranteed by the company, is borne to the user. Precaution sign and handling procedure of this product must be obtained by user and staff who use the product.
- Do not change or revise this document except with legal approval.

#### **GENERAL NOTES**

#### **FOOT NOTE**

Additional information: This document contains important information to ensure product storage, handling, and application will be done safely.

Revised parts: revised parts of this document is underlined and italic.

Application: this product cannot be used for other application besides recommendation in section 1 without any suggestion from the supplier.

SDS distribution: information in this document must be obtained and accessed by anyone who handles the product

Terms and Conditions: this information is made based on actual knowledge and intended to describe the product for health, safety, and environment requirements. Therefore, it cannot be interpreted for particular material guarantee of the product.

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