



Safety Data Sheet (SDS)

Product Name : TURALIK 48
Revision : 3
Validation Date : April 11th 2017
Valid Period : 5 (five) years

PT Pertamina Lubricants
Oil Centre Building 5th-7th floor
Jl. MH Thamrin, Kavling 55
Central Jakarta 10350 Indonesia

LEMBAR DATA KESELAMATAN (SAFETY DATA SHEET)

1. Identification

- Product identification/name : TURALIK 48
- Identification number : 312
- Recommended use of the chemical and restrictions on use : TURALIK 48 is recommended for general hydraulic equipment also for circulating or oil baths lubrication systems.
- Manufacturer's details : **PT Pertamina Lubricants**
Oil Centre Building Lantai 5 - 7
Jl. MH Thamrin, Kavling 55
Jakarta Pusat 10350 Indonesia
T : +62 21 3190 7190
F : +62 21 314 8886
- Emergency phone number : (021) 1 500 000

2. Hazard Identification

- Classification of the product : Not classified as hazardous material according to GHS
- GHS label elements : No label
- Signal word : No signal word
- Hazard statement(s) :
Physical hazard
No hazard statement

Health hazard
No hazard statement

Environmental hazard
No hazard statement
- Precautionary statement(s) :
General
No precautionary statement

Preventive
No precautionary statement

Response

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2. Hazard Identification

No precautionary statement

Storage

No precautionary statement

Disposal

No precautionary statement

- Pictogram : No pictogram
- Other hazards which do not result in classification : No hazard

3. Composition/Information on the Ingredients

- Chemical identity : Hydrocarbon petroleum and additive
- Common/trade name/synonym : Turalik 48
- CAS/EC number : confidential
- Impurities and stabilizing additives : confidential
- Mixtures : (no hazardous material)

Chemical Ingredients	CAS Number	% wt as product
-	-	-

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 vomiting occurs. Do not give anything through mouth if unconsciousness occurs. Get medical advice.

**LEMBAR DATA KESELAMATAN
(SAFETY DATA SHEET)****4. First Aid Measures**

- Most important symptoms/effects (acute and delayed):
 - No data
- Indication of immediate medical attention and special treatment needed:
 - No data

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 : 226 (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 go into drainage or streams, do immediate report to the authority.

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6. Accidental Release Measures

- 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.

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 ventilation requirement is not needed
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- 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

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Skin and body protection

- Hygiene Practices :
 - No data

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, neoprene or neoprene rubber gloves or nitrile.

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

9. Physical and Chemical Properties

SAE Number	:	No data available	
Specific Weight, 15°C, Kg/l	:	0.8751	(ASTM D-4052)
<u>Appearance (physical state, color, etc)</u>	:	<u>L 1.5</u>	<u>(ASTM D-1500)</u>
<u>Odor</u>	:	<u>No data available</u>	
<u>Odor threshold</u>	:		
<u>pH</u>	:	<u>No data available</u>	
<u>Pour point, °C</u>	:	<u>-21</u>	(ASTM D-5950)
<u>Initial boiling point and boiling range</u>	:	<u>No data available</u>	
<u>Flammable properties (solid, gas)</u>	:	<u>No data available</u>	
Flash point (COC), °C	:	226	(ASTM D-92)
<u>Evaporation rate</u>	:	<u>No data available</u>	
<u>Flammability (solid, gas)</u>	:	<u>Low</u>	
<u>Lower/upper flammability and/or explosive limits</u>	:	<u>No data available</u>	
<u>Vapor pressure</u>	:	<u>No data available</u>	
<u>Vapor density</u>	:	<u>No data available</u>	
<u>Relative density</u>	:	<u>No data available</u>	
<u>Solubility</u>	:		
- <u>Water solubility</u>	:	<u>No data available</u>	
- <u>Other solvent solubility</u>	:	<u>No data available</u>	
<u>Partition coefficient: n-octanol/water</u>	:	<u>No data available</u>	
<u>Auto-ignition temperature</u>	:	<u>No data available</u>	
<u>Decomposition temperature</u>	:	<u>No data available</u>	
Kinematic viscosity at 40°C, cSt	:	46.55	(ASTM D-7279)

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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 products : CO, metal oxide, other oxides, smoke, H₂S, and *alkyl mercaptans*

11. Toxicological Information

- Acute toxicity
 - Skin corrosion/irritation : No data available. Suspected not to cause mild irritation based on test to similar material and component.
 - Serious eye damage/irritation : Do not cause skin irritation based on test to similar material and component.
 - Respiratory/skin sensitization : Do not cause eye irritation based on test to similar material and component.
 - Germ cell mutagenicity : No data available which shows that product contains >1% material which have mutagenicity effects.
 - Carcinogenicity : Do not cause carcinogen based on test to the components.
 - Reproductive toxicity : Do not contain material which have reproductive toxicity effects.
 - 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.
 - Aspiration hazard : No data available. It is expected that it does not give aspiration risk based on its materials physical-chemical properties
 - Information on the likely routes of exposure : No data available
- Symptoms related to the physical, chemical, and toxicological characteristics : No data available
- Delayed and immediate effects and also chronic effects from short and long : No data available

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11. Toxicological Information

- term exposure
- Numerical measures of toxicity : No data available
- Interactive effects
- Where specific chemical data : No data available
are not available
- Mixtures : No data available
- Mixture versus ingredient : No data available
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.

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- Packaging/container Disposal

Two-hundred nine (209) capacity drum must be in empty condition, labeled, and returns 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
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

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14. Transport Information

- 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

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
- 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

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14. Transport Information

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

15. Regulatory information*

- Safety, health, and environmental regulations specific for the product in question :
 - Peraturan Menteri Perindustrian Nomor 23/M-IND/PER/4/2013 tentang Perubahan Atas Peraturan Menteri Perindustrian Nomor 87/M-IND/PER/9/2009 Tentang Sistem Harmonisasi Global Klasifikasi dan Label pada Bahan Kimia
 - Peraturan Pemerintah Republik Indonesia, Nomor 74 Tahun 2001 Tentang Pengelolaan Bahan Berbahaya dan Beracun Presiden Republik Indonesia
 - Keputusan Menteri Tenaga Kerja No Kep-187/Men/1999 tentang Pengendalian Bahan Kimia Berbahaya

16. Other information

- SDS validation date : April 11th 2017
- SDS revision date : April 11th 2017
- Revision explanation : Adjusted to Peraturan Menteri Perindustrian Nomor 23 Tahun 2013 tentang Perubahan Atas 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 identity number for substance and mixture)
 - SAE number – Society of Automotive Engineers (code used for viscosity specification of lubricant)

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16. Other information

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 :
 - Data in this SDS is available only for material/product above (Turalik 48)
 - 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.

Label

Turalik 48

(Hydraulic Industry Lubricating Oil)

PT Pertamina Lubricants

Oil Centre Building 5th-7th floor

Jl. MH Thamrin, Kavling 55

Jakarta Pusat 10350 Indonesia

www.pertaminalubricants.com

No symbol
Tidak ada Simbol

No Signal Word
Tidak ada
Perkataan Sinyal

Pernyataan Bahaya

Tidak menimbulkan bahaya menurut klasifikasi GHS

Diperkirakan tidak menimbulkan bahaya kesehatan pada penggunaan kondisi normal

Pencegahan

Serahkan oli dan kemasan bekas ke pengelola limbah

Gunakan Safety Data Sheet sebagai acuan untuk informasi lebih lanjut

Hazard Statement

Not classified as hazardous substance
Not expected to be a health hazard when used under normal conditions

Precautions

Dispose content or container to waste collector
Refer to Safety Data Sheet for additional information