



## Safety Data Sheet (SDS)

Product Name : Medripal 440  
Revision : 3  
Validation Date : April 28<sup>th</sup> 2019  
Valid Period : 5 (five) years

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

**LEMBAR DATA KESELAMATAN  
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**1. Identification**

- Product identification/name : Medripal 440
- Identification number : 532
- Recommended use of the chemical and restrictions on use : Medripal 440 is recommended for lubrication of medium speed industrial and marine diesel engines.
- Manufacturer's details : **PT Pertamina Lubricants**  
Grha Pertamina, Pertamina Tower 15<sup>th</sup>-17<sup>th</sup> floor  
Jl. Medan Merdeka Timur No. 11-13  
Central Jakarta 10110 Indonesia  
T : +62 21 3190 7190
- Emergency phone number : (021) 1 500 000

**2. Hazard Identification**

- Classification of the product : Hazardous to aquatic environment, category 3.
- GHS label elements : No symbol
- Signal word : No signal word
- Hazard statement(s) :  
Physical hazard  
No hazard statement  
  
Health hazard  
No hazard statement  
  
Environmental hazard  
H412 - Harmful to aquatic life with long lasting effects.
- Precautionary statement(s) :  
General  
No precautionary statement  
  
Preventive  
P273 - Avoid release to the environment.  
  
Response  
No response precautionary statement.

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**2. Hazard Identification**

Storage  
No storage precautionary statement

Disposal  
P501 - Dispose of contents/container to authorized waste collector

- Pictogram : **No pictogram**
- Other hazards which do not result in classification : May cause slightly eye irritation if directly exposed and repeatedly when it heated (abnormal condition)

**3. Composition/Information on the Ingredients**

- Chemical identity : Hydrocarbon petroleum and additive
- Common/trade name/synonym : Medripal 440
- CAS/EC number : Confidential
- Impurities and stabilizing additives : Confidential
- Mixtures

Chemical Ingredients	CAS Number	% wt as product
Calcium phenate sulfide	Confidential	4.5-5.9

**4. First Aid Measures**

- Description of necessary first aid measure:
  - Eye contact : Rinse with plenty of water. If irritation occurs, refer to a physician.
  - Skin Contact : 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 a comfortable 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.
- 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

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**5. Fire-fighting Measures**

- Specific hazards arising from the chemical  
Other hazardous combustion products : No other hazardous combustion
- Flash point °C : 256 (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.

**7. Handling and Storage**

- Preventive procedure for safe handling
- Precautions for safe handling

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**7. Handling and Storage**

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

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- Hygiene practices :
  - No data

### 9. Physical and Chemical Properties

SAE Number	:	No data available	
Specific Weight, 15°C, Kg/l	:	0.9108	(ASTM D-4052)
Appearance (physical state, color, etc)	:	L 5.5	(ASTM D-1500)
Odor	:	No data available	
Odor threshold	:	No data available	
pH	:	No data available	
Melting/freezing point, °C	:	-18	(ASTM D-97)
Initial boiling point and boiling range	:	No data available	
Flammable properties (solid, gas)	:	No data available	
Flash point (COC), °C	:	256	(ASTM D-92)
Evaporation rate	:	No data available	
Flammability (solid, gas)	:	Low	
Lower/upper flammability and/or explosive limits	:	No data available	
Vapor pressure	:	No data available	
Vapor density	:	No data available	
Relative density	:	No data available	
Solubility			
- Water solubility	:	No data available	
- Other solvent solubility	:	No data available	
Partition coefficient: n-octanol/water	:	No data available	
Auto-ignition temperature	:	No data available	
Decomposition temperature	:	No data available	
Kinematic viscosity at 40°C, cSt	:	143.8	(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 products : No data available

### 11. Toxicological Information

- Acute toxicity

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**11. Toxicological Information**

- Skin corrosion/irritation : No data available. It is not suspected to cause mild irritation based on test to similar material and component.
- Serious eye damage/irritation : No data available. It is not expected to cause serious 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.
- Germ cell mutagenicity : No data available. It is expected that it is not 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.
- Reproductive toxicity : No data available. It is expected that it is not 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.
- 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 term exposure : No data available
- Numerical measures of toxicity : No data available
- Interactive effects : No data available
- Where specific chemical data are not available : No data available
- Mixtures : No data available
- Mixture versus ingredient information : No data available
- Other information : No data available

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### 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.*

### 3. 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 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



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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 Compatibilty	
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)

**16. Other information**

- SDS validation date : April 28<sup>th</sup> 2019
- SDS revision date : April 28<sup>th</sup> 2019
- 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)
  - 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 (Medripal 440).
- 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.