

Safety Data Sheet (SDS)

Product Name : Medripal 412

Revision : 3

Validation Date : April 28th 2019 Valid Period : 5 (five) years

PT Pertamina Lubricants

Grha Pertamina, Pertamax Tower 15th-17th floor Jl. Medan Merdeka Timur No. 11-13 Jakarta Pusat 10110 Indonesia



1. Identification

: Medripal 412 Product

identification/name

: 489 Identification number

the chemical and restrictions on use

 Recommended use of : Medripal 412 is Recommended for lubrication of medium speed trunk piston industrial and marine

diesel engines

: 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

Emergency phone

number

: (021) 1 500 000

2. Hazard Identification

• Classification of the product : Reproductive toxicity, category 2.

Hazardous to aquatic environment, category 4.

: Health Hazard GHS label elements

Signal word : Warning

Hazard statement(s):

Physical hazard No hazard statement

Health hazard

H361 - Suspected of damaging fertility or the unborn child

Environmental hazard

H413 – May cause long lasting effect to aquatic life

Precautionary statement(s):

General

No precautionary statement

Preventive

P201- Obtain special instructions before use

P202- Do not handle until all safety precautions have been read and understood

P280- Wear protective gloves/protective clothing/eye protection/face protection

P273 - Avoid release to the environment.

Halaman/Page 2 dari/out of 13 Revisi/Edition: 3

Berlaku sejak/ : April 28th 2019



2. Hazard Identification

Response

P308+P313- If exposed or concerned: Get medical advice/attention

Storage

P405- Store locked up

Disposal

P501 - Dispose of contents/container to waste collector conform to regulations

Pictogram :



Other hazards which do not : May cause eye irritation if exposed repeatedly result in classification in abnormal condition

3. Composition/Information on the Ingredients

Chemical identity : Hydrocarbon petroleum and additive

Common/trade name/synonym : Medripal 412
 CAS/EC number : confidential
 Impurities and stabilizing additives : confidential

Mixtures

Chemical Ingredients	CAS Number	% wt as product	
p-Dodecylphenol	Confidential	0,5-0,99	
Zinc alkyldithiophospate	Confidential	0,5-0,99	

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 : Do not give anything through mouth that can induce nausea or

vomiting. Get medical advice if emergency condition occurs.

Halaman/Page 3 dari/out of 13 Revisi/Edition : 3

Berlaku sejak/ : April 28th 2019



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 : Carbon dioxide, water, foam, and dry

chemical

Specific hazards arising from the

chemical

Other hazardous combustion products : No other hazardous combustion

Flash point °C : 270 (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.

Halaman/Page 4 dari/out of 13 Revisi/Edition : 3

Berlaku sejak/ : April 28th 2019



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 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

Halaman/Page 5 dari/out of 13 Revisi/Edition : 3

Berlaku sejak/ : April 28th 2019



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.

: No special work clothing (without Skin and body protection

coverall) for skin or other body

protection.

Hygiene practices:

No data

9. Physical and Chemical Properties								
SAE Number	:	No data available						
Specific Weight, 15°C, Kg/l	:	0.8791	(ASTM D-4052)					
Appearance (physical state, color, etc)	:	4.5	(ASTM D-1500)					
Odor	:	No data available						
Odor threshold	:	No data avaiable						
рН	:	No data available						
Melting/freezing point, °C	:	-18	(ASTM D-5950)					
Initial boiling point and boiling range	:	No data available						
Flammable properties (solid, gas)	:	No data available						
Flash point (COC), °C	:	270	(ASTM D-92)					
Evaporation rate	:	No data available						
Flammability (solid, gas)	:	Low						
Lower/upper flammability and/or	:	No data available						
explosive limits								
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	:	141.8	(ASTM D-7279)					

10. Stability and reactivity

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

: No data available Possibility of hazardous reactions

Condition to avoid : Temperature above normal condition

: Strong oxides, strong acid and base. Incompatible materials

Halaman/Page 6 dari/out of 13 Revisi/Edition: 3

Berlaku sejak/ : April 28th 2019



10. Stability and reactivity

 Hazardous decomposition pruducts : No data available

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/: No data available. It is not expected to cause eye irritation

serious irritation based on test to similar

material and component.

Respiratory/skin No data available. It is expected that inhaling sensitization

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.

Reproductive toxicity No data available. It is expected that it is

reproductive toxicant based on test to the

components.

Systemic Target Organ No data available. It is expected that it does Toxicity-single exposure

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

Where specific chemical data:

are not available

No data available

No data available Mixtures

Revisi/Edition: 3 Halaman/Page 7 dari/out of 13

Berlaku seiak/ : April 28th 2019



11. Toxicological Information

Mixture versus ingredient : No data available

inforrmation

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 nine (209) 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.

Halaman/Page 8 dari/out of 13 Revisi/Edition : 3

Berlaku sejak/ : April 28th 2019



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

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

Halaman/Page 9 dari/out of 13 Revisi/Edition : 3

Berlaku sejak/ : April 28th 2019



14. Transport Information

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

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

Halaman/Page 10 dari/out of 13 Revisi/Edition : 3

Berlaku sejak/ : April 28th 2019



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)

4.0	041				4.5
16. ¹	Otr	ier i	mro	rma	tion

SDS validation date : April 28th 2019

SDS revision date : April 28th 2019

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 : SDS – Safety Data Sheet

abbreviations and 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

acronyms used in SDS

No data

Halaman/Page 11 dari/out of 13 Revisi/Edition : 3

Berlaku sejak/ : April 28th 2019



16. Other information

- Further information :
 - Data in this SDS is available only for material/product above (Medripal 412).
 - 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.

Halaman/Page 12 dari/out of 13 Revisi/Edition : 3

Berlaku sejak/ : April 28th 2019