

Safety Data Sheet (SDS)

Product Name Revision Validation Date Valid Period : Medripal 412

: 4

: January 18th 2024

: 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. Identifica	tion		
Product : Medripal 412 identification/name			
Identification number : 489			
•	2 is recommended for lubrication of ed trunk piston industrial and marine		
Grha Pertam JI. Medan Me Central Jaka	PT Pertamina Lubricants Grha Pertamina, Pertamax Tower 15 th -17 th floor Jl. Medan Merdeka Timur No. 11-13 Central Jakarta 10110 Indonesia T : +62 21 3190 7190		
Emergency phone : 135 number			
2. Hazard Identi			
 Classification of the product : Serious 	eye damage/eye irritation, category 2		
GHS label elements : Exclamation:	ation mark		
Signal word : Warning)		
 Hazard statement(s) : Physical hazard No hazard statement 			
Health hazard H319 - Causes serious eye irritation			
Environmental hazard No hazard statement			
 Precautionary statement(s) : General No precautionary statement 			
Preventive			
P264 – Wash hand thoroughly after handling.			
P280 – Wear protective gloves/protective clothing/eye protection/face protection			
Response P305 + P351 +P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.			



2. Hazard Identification		
P337 + P313 – If eye irritation persists: Get medical advice/attention.		
Storage		
No precautionary statement		
Disposal No precautionary statement		
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
- **Mixtures**

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

4. First Aid Measures

Description of necessary first aid measure: •

Eve contact	: Rinse with plenty of water. If irritation occurs, refer to a physician.
	: 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.

: Do not give anything through mouth that can induce nausea or Ingestion vomiting. Get medical advice if emergency condition occurs.

- 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



5. Fire-fighting N	leasures		
 Specific hazards arising from the chemical 			
Other hazardous combustion products	: No other hazardous combustion		
Flash point °C	: 278 (ASTM D-92)		
Hazardous chemical decomposition	: No data available		
 Special protective actions for fire fighters 	:		
a. Dry Chemical	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



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.

	A Porconal Protection
 8. Exposure Controls and Control parameters 	
Exposure limits	: No data available
Biological limit value	: No data available
Appropriate engineering controls :	
Ventilation	: In common condition, special ventil
 Individual protection measures (such as 	ation requirement is not needed s personal protective equipment) :
Respiratory protection	: In common condition, no special
Eye protection	requirements needed. : 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
Skin and body protection	neophrene rubber gloves or nitrile.No special work clothing (without coverall) for skin or other body protection.



Hygiene practices :
 No data

9. Physical and Chemical Properties			
:	No data available		
:	0.8968	(ASTM D-4052)	
:	L 4.5	(ASTM D-1500)	
:	No data available	, , ,	
:	No data avaiable		
:	No data available		
:	-21	(ASTM D-5950)	
:	No data available	· · · · · ·	
:	No data available		
:	278	(ASTM D-92)	
:	No data available	, ,	
:	Low		
:	No data available		
:	No data available		
:	No data available		
:	No data available		
:	No data available		
:	No data available		
:	No data available		
:	No data available		
:	No data available		
:	142.3	(ASTM D-7279)	
		 No data available 0.8968 L 4.5 No data available No data available No data available -21 No data available -218 No data available 278 No data available Low No data available Low No data available 	

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	

11. Toxicological Information

:

- Acute toxicity
 - Skin corrosion/irritation

No data available. It is not expected to cause mild irritation based on test to similar material and component.



11. Toxico	olo	gical Information
- Serious eye damage/ irritation		No data available. It is expected to cause serious irritation based on test to similar
- Respiratory/skin sensitization	:	material and component. No data available. It is expected that it is not 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 Interactive effects 	:	No data available
	:	No data available
Mixtures	:	No data available
 Mixture versus ingredient inforrmation 	:	No data available
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.

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: Not regulated



14. Transport Information			
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			
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		

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14. Transport I	nformation
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 :
 Clobally, Harmonized System of Closaification and Labelling of Chamical
 - 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	: January 18 th 2024
SDS revision date	: January 18 th 2024
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 :



16. Other 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.

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