Kode Produk	PERTAMINA	Making date	: August 2003
087	Downstream Directorat – Marketing and Trading	Revision date	: 06/08/2003

#### MATERIAL SAFETY DATA SHEET

#### PRODUCT AND COMPANY IDENTITY

PODUCT NAME : Mesran 20 W **PRODUSEN** : PERTAMINA

Jalan Perwira No. 4

Jakarta Pusat Kode Pos 10110

Phone: 021-3815509. Faximile: 3455344 : 021-3816732 Phone for Emergency Situation (24 hours) Phone for MSDS Information : 021-3815578

#### INGREDIENT COMPOSITION / INFORMATION

Chemical Name : Petroleum Hydrocarbon and additive

Hazardous ingredient

This product does not contain any hazardous ingredient as the regulation from European Union Dangerous Substances / Preparations Directive. See point 15 for the regulation of ingredient analysis. See point 8 for the exposure limit (if any).

### INTRODUCTION OF DANGER

**Danger Standard Communication** 

Exposure effect : There is no significant impact on short time exposure. Long time exposure

can cause eyes irritation.

Emergency Data : Brown Liquid

#### 4. FIRST AID REGULATION

Eye contact : rinse with water for 15 minutes minimum. If there is an eye irritation, please contact the

doctor.

Skin contact : wash the exposure skin with water and soap.

Inhaled : Supposed to be not caused any danger. Take the person to fresh air if there is any dangerous

effect

Swallowed : give 1 or 2 glass of water, contact the doctor, emergency room or danger supervision centre.

Don't give anything through the mouth that can cause vomit or sick.

### 5. FIRE HANDLING

Fire Extinguisher : Carbon dioxide, foam, dry chemical and water fog

Fire Extinguished Procedure : Water and foam can cause foaming. Splashing the container with water to keep the container cold. Do the splashing to remove the spill. Don't discard the spill to aqueduct, gutter, or

clean water source.

: The fireman have to wear Self Contained Breathing Apparatus (SCBA) Special Protector Equipment

Explosion and another fire danger : Toxic Fumes Flash point, °C : 87 (ASTM D-92)

Flammable limits – LEL : none UEL : none

: Health: 2, Flammability: 1, Reactivity: 0

NFPA Hazard ID Hazardous Material Decomposition: Carbon monoxide. Metal Oxide. Another Oxide.

Mesran 10W 1 of 4

Kode Produk	PERTAMINA	Making date	: August 2003
087	Downstream Directorat – Marketing and Trading	Revision date	: 06/08/2003

#### 6. SPILL AND LEAKAGE HANDLING

Procedure note : Report the spill happened according to system and procedure decided. If the spill could be enter the aqueduct or river, please report to authority officer as soon as possible.

Leakage and Spill Procedure : Absorb the spill by saw-dust, clay, and another fire resistant material. Clean up and discard to the location that have been decided.

Prevention on Environment : Prevent the spill entering the gutter, waste canal, and into the soil.

Prevention on Human being : see section 8.

### 7. HANDLING AND STORAGE

Handling : There is no special action. Handling temperature maximum 60°C. See section 8 for the the suggestion of wearing protection equipement when handling this product. Container must be closed if not in used.

Storage : Don't keep this product on open container or non-label container. Keep away from oxidator or flammable material. Can cause smell or toxic gas if the temperature exceed 45 °C for a long time or keep near heat source with temperature > 121 °C.

#### 8. EXPOSURE CONTROL / SELF PROTECTION

Ventilation : Commonly there is no special regulation for ventilation on normal condition.

Breath Protection : There is no special regulation on normal condition.

Eye Protection : Use eye protection equipment.

Skin Protection : Regulation for personnel hygiene still have to give a notice. Use the nitrile gloves,

long arm shirt, boots. Don't use ring or watch because it can make skin reaction.

Exposure limit : This product doesn't contain any material that have been known have exposure limit value. But we can use exposure limit value (OSHA PEL) from the vapor, i.e. 5.00 mg/m³ and

ACGIH STEL, i.e. 10 mg/m<sup>3</sup>.

### 9. PHYSICAL AND CHEMICAL DATA

No. SAE : 20W

Viscosity Kinematic at 40°C, cSt : 37.60 (ASTM D-445)

100°C, cSt : 6.14 (ASTM D-445)

109 Viscosity Index (ASTM D-2270) Spesicific Gravity 15/4 °C 0.8774 (ASTM D-1298) Colour ASTM L1.5 (ASTM D-1500) Flash Point (COC), °C 244 (ASTM D-92) **TBN** 5.35 (ASTM D-2896) Pour Point, °C -12 (ASTM D-97)

## 10. STABILITY AND REACTIVITY

Stability (thermal, light, etc) : Stable

Situation/condition have to avoid : High temperature

Material have to avoid : Halogen acid and halogenated

Decomposition : Carbon monoxide. Metal Oxide. Another Oxide.

Smoke, hydrogen sulfide, alkyl mercaptans.

Mesran 10W 2 of 4

Kode Produk	PERTAMINA	Making date	: August 2003
087	Downstream Directorat – Marketing and Trading	Revision date	: 06/08/2003

11. TOXICOLOGY DATA	
TOXICOLOGY	ACUTE
Oral Toxicity (Rat) similar material and comp	· · · · · · · · · · · · · · · · · · ·
	: Non-toxic (LD 50: higher than 2000 mg/kg) based on testing of
Inhale Toxicity	: Non-toxic based on testing of similar material and component serupa. ation on mucous membrane and the top of breathing tube if inhaled for a long
Eye Irritation (Rabbit) testing of similar material	: Non-irritating (Draize score : higher than $6$ , lower than $15$ ) based on and component.
based on testing of similar	: result of toxicology acute shows that there is no acute impact on breath, when
	REPRODUCTION
There is no data that show	KRONIKvs the product contain > 1 % material that can impact health.
	XICOLOGY DATA

# 12. ECOLOGY INFORMATION

Impact and damage on environment:

Non-toxic ---- based on testing of similar material and component.

# 13. DISPOSAL CONSIDERATIONS

Not proven as hazardous material based on RCRA Regulation 40 CFR 261.

# 14. TRANSPORTATION INFORMATION

USA DOT : not-regulate by USA DOT RID/ADR : not-regulate by RID/ADR IMO : not-regulate by IMO IATA : not-regulate by IATA

## 15. REGULATION INFORMATION

Based on U.S. Superfund Amendment and Reauthorization Act (SARA) this product doesn't contain *EXTREMELY HAZARDOUS* more than 1%.

SARA (311/312) REPORTABLE HAZARD CATEGORIES:

This product contain chemical as follows:

NAMA KIMIA % berat

Zinc Alkyl Dithiophosphate 0.79% Hydrotreated Dist. Hvy para 1.94%

Mesran 10W 3 of 4

Kode Produk	PERTAMINA	Making date	: August 2003
087	Downstream Directorat - Marketing and Trading	Revision date	: 06/08/2003

## 16. ANOTHER INFORMATION

Product condition and product fitting on special application out of company guarantee; all of the using risk will be the user responsibility. User and officer that handling this product must have the warning and product handling procedur. It's forbidden to change this document, except with law legacy.

Mesran 10W 4 of 4