


**SAFETY DATA SHEET****1. IDENTIFICATION**

Product identifier : Paraffinic Oil 95  
Other means of identification : -  
Recommended use of the chemical and restrictions on use : This product is used as *processing oil* material in manufactures of tires' treads, rubber shoes and soles, carpet, plastic pipe, and as substitute of dioctylplata in printing ink industry.  
Manufacturer : PT Pertamina (Persero)  
Jl. Medan Merdeka Timur 1A  
Jakarta Pusat ZIP Code 10110  
Phone: 1500-000  
Email: pcc@pertamina.com  
Emergency phone number : 1500-000

**2. HAZARD IDENTIFICATION**

**Classification** : Carcinogenicity, category 1B  
**Signal word** : Danger  
**Hazard statement** : Health Hazard  
H350 – May cause cancer.  
**Precautionary statement** : Prevention  
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.  
Response  
P308 + P313 - IF exposed or concerned: Get medical advice/attention.  
Storage  
P405 - Store in a closed container.  
Disposal  
P501 - Dispose of contents/container according to valid disposal regulations.  
**Pictogram** :   
**Other hazards which do not result in classification** : No data available

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No.	Concentration (%)
Distillates (petroleum) solvent dewaxed light paraffinic	64742-56-9	100

**SAFETY DATA SHEET****4. FIRST AID MEASURES****Necessary description**

- **In case of eye contact** : Flush immediately with copious quantities of water. If persistent irritation occurs, obtain medical attention.
- **In case of skin contact** : Immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Wash exposed area thoroughly with soap and water. Remove contaminated clothing promptly and launder before reuse. Contaminated leather goods should be discarded. If irritation seek medical attention.
- **If inhaled** : If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give cardiopulmonary respiration. Get medical attention.
- **If swallowed** : If potentially dangerous quantities of this material have been swallowed, call a physician immediately. Do not include vomiting unless directed to do so by medical personnel.

**Most important symptoms/effects** : May cause respiratory disorders, eye irritation, and skin irritation.

**Indication of Immediate medical attention and special treatment needed, if necessary** : Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

**Suitable extinguishing media** : Carbon dioxide, dry chemical, foam, and water fog.

**Unsuitable extinguishing media** : Water jet.

**Specific hazards**

- **Other explosion and fire hazards** : During fire, dangerous gases may be formed. Headspace part of containment tank contain flammable air.

**Flash point °C** : 211 °C

**Flammability value** : No data available

**Hazardous chemical decomposition** : Carbon monoxides.

**Special protective actions for fire fighters****Special protective actions for fire fighters**

- a. **Carbon dioxide (CO<sub>2</sub>)** : Spray it to the base of fire from upwind.
- b. **Dry chemical powder** : Spray it to the base of fire from upwind.
- c. **Water fog** : Spray it to the base of fire from upwind.
- d. **Foam** : When the fire is in a container, spray the foam into the inner wall of the container, not to the burning liquid, and from upwind. When the fire is caused by spill of liquid, spray it to the front fire until the spill is covered thoroughly, and from upwind.

**Special protective** : For fires in relatively closed areas, the fire fighters must

**SAFETY DATA SHEET****5. FIRE-FIGHTING MEASURES**

**equipment for fire-fighter** : be equipped with Self Contained Breathing Apparatus (SCBA).

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment, and emergency procedures** : Put away all conditions that can enable the occurrence of ignition. Suggested to use explosion-proof electrical equipments.  
Keep away from contact with spillage.  
Keep away from direct contact with product.  
For large spillage, immediately isolate area and keep away unnecessary person from area of spillage. Use proper personal protective equipment, including respiratory protection.

**Environmental precautions** : Prevent spill into drainage, sewage system, or it seepage into the soil.

**Procedures** : Report spill according to the valid system and procedures. If spill can go into drainage or streams, do immediate report to the authority.

**Methods and materials for containment and cleaning up** : Adsorb the spill by using sorbent, sawdust mixed with clay and other fire inhibitor materials. Clean and dispose it at the determined place of disposal according to the local regulation.

**7. HANDLING AND STORAGE**

**Precautions for safe handling** : Keep container closed. Use only with adequate ventilation. Avoid breathing vapor or mist. Keep away from heat, sparks and flame. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Wash thoroughly after handling.

**Conditions for safe storage (including any incompatibilities)** : Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).  
Use mild steel or high density polyethylene (HDPE) for containers or container linings.  
Avoid PVC for containers or container linings.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

- Exposure limit** : OSHA : PEL 5 mg/m<sup>3</sup>  
ACGIH TLV : TWA 5 mg/m<sup>3</sup>  
NIOSH : TWA 5 mg/m<sup>3</sup>

**SAFETY DATA SHEET****8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

- **Biological exposure indicator** : No data available
- Appropriate engineering control**
  - **Ventilation** : Use this product in a well-ventilated area.
- Individual protection measures**
  - **Eye and face protection** : Use chemical type goggles.
  - **Skin protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
  - **Respiratory protection** : Use breathing apparatus when the polluted concentration in the air is higher than the permissible threshold limit value.
  - **Hygiene practices** : Wash hand thoroughly after handling.  
Do not eat or drink when using this product.  
Do not smoke while using this product.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Characteristic	Test Result
Organoleptic (physical appearance, color, etc)	: Liquid, yellow
Odor	: No odor
Odor threshold	: No data available
pH	: No data available
Melting/freezing point	: 0 °C at 101.325 kPa*
Boiling point/boiling range	: 315 °C
Flammability	: Not flammable
Flash point	: 211 °C
Evaporation rate	: No data available
Lower/upper flammability limit and explosion limit	: No data available
Vapor pressure	: 10 Pa at 20 °C*
Vapor density	: No data available
Relative density	: 877.6 kg/m <sup>3</sup> at 15 °C
Solubility <ul style="list-style-type: none"><li>• Water solubility</li><li>• Other solubility</li></ul>	: Not soluble : Soluble
Partition coefficient (n-octanol/water)	: -0.002
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: 124.1 cSt at 23 °C

\*Data refers to ECHA Europe

**SAFETY DATA SHEET****10. STABILITY AND REACTIVITY**

<b>Reactivity</b>	: Hazardous substance polymerization does not occur.
<b>Chemical stability</b>	: Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	: No hazardous reaction in normal condition.
<b>Conditions to avoid</b>	: Heat, flame, ignition or conditions that can cause static electricity.
<b>Incompatible materials</b>	: Reactive with oxidizing agents, acids, alkalis, nitrates, chlorites, peroxide.
<b>Hazardous decomposition products</b>	: Carbon oxides (CO, CO <sub>2</sub> ), nitrogen and sulfur oxides (NOX, SOX), particulate matter, aromatic, VOC's.

**11. TOXICOLOGICAL INFORMATION****Comprehensive toxicological/health information**

- **Acute toxicity** : Oral: No adverse effect observed LD50 5000 mg/kg bw.  
Inhalation: No adverse effect observed LC50 5000 mg/m<sup>3</sup>.  
Dermal: No adverse effect observed LD50 2000 mg/kg bw.
- **Skin corrosion/irritation** : No data available. Suspected that it may not cause skin corrosion/irritation according to compound or product which has similar structure or composition.
- **Serious eye damage/irritation** : No data available. Suspected that it may not cause serious eye damage or irritation according to compound or product which has similar structure or composition.
- **Respiratory or skin sensitization** : No data available. Suspected that it may not cause respiratory or skin sensitization according to compound or product which has similar structure or composition.
- **Germ cell mutagenicity** : No data available. Suspected that it is not mutagen according to compound or product which has similar structure or composition.
- **Carcinogenicity** : May cause cancer.
- **Reproductive toxicity** : Effect on fertility:  
Oral:  
No adverse effect observed NOAEL 1000 mg/kg bw/day (subchronic, rat).  
Dermal:  
No adverse effect observed NOAEL 1000 mg/kg bw/day (subchronic, rat).  
Effect on developmental toxicity:  
Dermal route:  
Adverse effect observed NOAEL 30 mg/kg bw/day (subchronic, rat).
- **STOT-single exposure** : No data available. Suspected that it is not toxic to specific organs after single exposure according to compound or product which has similar structure or composition.
- **STOT-repeated exposure** : Oral – systemic effects:  
Adverse effect observed LOAEL 125 mg/kg bw/day (subchronic, rat).

**SAFETY DATA SHEET****11. TOXICOLOGICAL INFORMATION**

- Dermal – systemic effects:  
Adverse effect observed LOAEL 100 mg/kg bw/day (chronic, mouse).
- Inhalation – systemic effects:  
No adverse effect observed NOAEC 980 mg/m<sup>3</sup> (subacute, rat).
- **Aspiration hazards** : No data available. Suspected that it is not aspiration hazards. This statement comes from compounds or products which have similar structures or compositions.
- Information on the likely routes exposure** : Skin contact and ingested.
- Symptoms related to the physical, chemical, and toxicological characteristics** : No data available. Further testing has not been done.
- Delayed and immediate effects, and also chronic effects from both short or long term exposure** : No data available. Further testing has not been done.
- Numerical measure of toxicity** : No data available. Further testing has not been done.
- Interactive effects** : No data available. Further testing has not been done.
- Where specific chemical data are not available** : No data available. Further testing has not been done.
- Mixture** : No data available. Further testing has not been done.
- Mixture vs. Ingredient information** : No data available. Further testing has not been done.
- Other in formation** : No data available. Further testing has not been done.

**12. ECOLOGICAL INFORMATION**

- Ecotoxicity** : Short-term toxicity to fish:  
LL50 (4 days) 100 mg/L  
Short-term toxicity to aquatic invertebrates:  
EL50 (48 h) 10 mg/L
- Persistence and degradability** : No data available. Further testing has not been done.
- Bioaccumulative potential** : No data available. Detailed toxic effects is related to concentration nominal value. Further testing has not been done.
- Mobility in soil** : No data available. Further testing has not been done.
- Other adverse effects** : No data available. Further testing has not been done.

**13. DISPOSAL CONSIDERATION**

- Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**SAFETY DATA SHEET****13. DISPOSAL CONSIDERATION**

Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

**14. TRANSPORT INFORMATION**

USA DOT	: Not arranged by USA DOT
RID / ADR	: Not arranged by RID/ADR
IMO	: Not arranged by IMO
ICAO / IATA	: Not arranged by IATA

**15. REGULATORY INFORMATION**

<b>Safety, health, and environmental regulation (specific for the product in question)</b>	: <ul style="list-style-type: none"><li>- 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</li><li>- Peraturan Pemerintah Republik Indonesia, Nomor 74 Tahun 2001 Tentang Pengelolaan Bahan Berbahaya dan Beracun Presiden Republik Indonesia</li><li>- Keputusan Menteri Tenaga Kerja No Kep-187/Men/1999 tentang Pengendalian Bahan Kimia Berbahaya</li><li>- Peraturan Menteri Kesehatan Republik Indonesia Nomor 70 Tahun 2016 tentang Standar dan Persyaratan Kesehatan Lingkungan Kerja Industri</li><li>- ACGIH®. 2016. TLVs® and BEIs®</li></ul>
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**16. OTHER INFORMATION**

<b>Revision date</b>	: 2017
<b>Key/legend or acronym used in the SDS</b>	: ACGIH - American Conference on Governmental Industrial Hygienist BEI - Biological Exposure Indices CAS No. - Chemical Abstract Service Number ECHA - European Chemicals Agency ICAO/IATA - International Civil Organization Aviation/ International Air Transport Association IMO - International Maritime Organization NIOSH – The National Institute for Occupational Safety and Health OSHA - Occupational Safety and Health Administration PEL - Permissible Exposure Limit RID/ADR - Regulation concerning the International Carriage of Dangerous Goods by Rail / European Agreement concerning the International Carriage of Dangerous Goods

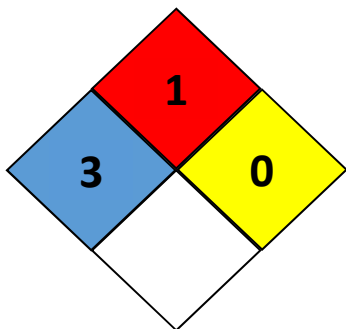


## SAFETY DATA SHEET

## 16. OTHER INFORMATION

Key literature references  
and sources for data used in  
the SDS

NFPA



by Road  
SCBA - Self Contained Breathing Apparatus  
TCLP - Toxicity Characteristic Leaching Procedure  
TLV - Threshold Limit Value  
TWA - Time-Weighted Average  
UN - United Nations  
USA DOT - United States Department of Transportation  
echa.europa.eu

Degrees	Red	Blue	Yellow
0	Will not burn	Live ordinary material	Normally stable
1	Must be preheated to burn	Slightly hazardous	Unstable if heated – use normal precautions
2	Ignites when moderately heated	Hazardous – use breathing apparatus	Violent chemical change possible – use hose streams from distance
3	Ignites at normal temperatures	Extremely dangerous – use full protective clothing	Strong shock or heat may detonate - use monitors from behind explosion resistant barriers
4	Extremely flammable	Too dangerous to enter vapor or liquid	May detonate – vacate area if materials are exposed to fire

White	
	Radioactive
	Never contact with water

## Disclaimer

The information is composed based on current knowledge and intended to describe safety, health, and environment hazard of the product. Therefore, it should not be construed as guarantee any specific property of the product. All risks while using this product is the user's responsibility. It is not allowed to make change of this document, except there is legal consent.