

1.	IDENTIFICATION		
	Product identifier	:	Minarex A
	Other means of identification	:	Rubber Processing Oil
	Recommended use of the	:	This product is used as processing oil material in
	chemical and restrictions on		manufactures of treads from vehicle tires, bridge pads,
	use		canvas shoe soles, and molded rubber soles.
			This product is also used as <i>secondary plasticizer</i> in PVC
			component, imitation leather, bending sole of PVC print
			industries and as solvent in industry.
	Manufacturer	:	PT Pertamina (Persero)
			Jl. Medan Merdeka Timur 1A
			Jakarta Pusat ZIP Code 10110
			Phone: 1500-000
	For every start and start and start		Email: pcc@pertamina.com
	Emergency phone number	:	1500-000
2.	HAZARD IDENTIFICATION		
2.	HAZARD IDENTIFICATION Classification	:	Carcinogenicity, category 1B
2.		:	Carcinogenicity, category 1B Danger
2.	Classification	:	
2.	Classification Signal word	:	Danger
2.	Classification Signal word	:	Danger <u>Health Hazard</u>
2.	Classification Signal word Hazard statement	:	Danger <u>Health Hazard</u> H350 – May cause cancer.
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Pictogram



P501 - Dispose of contents/container according to valid

Disposal

:

Other hazards which do not result in classification

: No data available

3. COMPOSITION/INFORMATION ON INGREDIENTS			
Chemical Name	CAS No.	Concentration (%)	
Distillates (Petroleum) Aromatic	64742-04-7	100	
Extract			



4. FIRST AID MEASURES	
Necessary description	First to send to be the large state of the state for a large
 In case of eye contact In case of skin contact 	 Flush immediately with large amounts of water for at least 15 minutes. Seek medical advice if pain or redness continues. 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 personal.
Most important	: No data available.
symptoms/effects	
Indication of Immediate	: Treat symptomatically. In case of ingestion, gastric lavage
medical attention and	with activated charcoal can be used promptly to prevent
special treatment needed, if	absorption.
necessary	
5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media	: Carbon dioxide, dry chemical and foam.
Unsuitable extinguishing media	 Carbon dioxide, dry chemical and foam. No data available.
media	. No data available.
Specific hazards	
 Other explosion and fire 	: No data available.
hazards	
Flash point °C	: Min. 380 °F or 193 °C
Flammability value	: No data available
Hazardous chemical	: Carbon monoxides.
decomposition	. Carbon monoxides.
Special protective actions for	
fire fighters	Spray it to the bace of fire from upwind
 a. Carbon dioxide (CO₂) b. Dry chemical powder 	Spray it to the base of fire from upwind.Spray it to the base of fire from upwind.
	: When the fire is in a container, spray the foam into the
c. Foam	from upwind. When the fire is caused by spill of liquid, spray it to the front fire until the spill is covered



			SAFETY DATA SHEET
5.	FIRE-FIGHTING MEASURES		
	Special protective equipment for fire-fighter	:	thoroughly, and from upwind. Fore fires in relatively closed areas, the fire fighters must be equipped with Self Contained Breathing Apparatus (SCBA).
6	ACCIDENTAL RELEASE MEASUR	FS	
	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).

8.	EXPOSURE CONTROLS/PERSONAL PROTECTION				
	Control parameters				
	Exposure limit	 Mineral oil mist: TLV-TWA 5 mg/m³ Polycyclic Aromatic Hydrocarbons: TLV-TWA 0.2 mg/m³ 			
	Biological exposure	: No data available			



8. EXPOSURE CONTROLS/PERSO	ONAL PROTECTION
indicator	
Appropriate engineering control	
Ventilation	: If product is used at closed area, equipped with exhaust fan. Ventilation and equipments must be explosive-proof.
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, dark, green browni	ish
Odor	: No odor	
Odor threshold	: No data available	
рН	: No data available	
Melting/freezing point	: -6 – 50 °C at 101.325 kPa*	
Boiling point/boiling range	: 350 °C	
Flammability	: Not flammable	
Flash point	: Min. 380 °F or 193 °C	
Evaporation rate	: No data available	
Lower/upper flammability limit and explosion limit	: No data available	
Vapor pressure	: 1 hPa at 20 °C*	
Vapor density	: No data available	
Relative density	: 1010.1 kg/m ³ at 15 °C	
Solubility		
Water solubility	: Not soluble	
Other solubility	: Soluble	
Partition coefficient (n-octanol/water)	: 0	
Auto-ignition temperature	: 250 - 410 °C at 101.325 kP	a*
Decomposition temperature	: No data available	
Viscosity	: 6.0 – 9.0 cSt at 210°F	
*Data refers to ECHA Europe		



10. STABILITY AND REACTIVITY	
Reactivity	: Hazardous substance polymerization does not occur.
Chemical stability	: Stable under normal conditions.
Posibility of hazardous	: No hazardous reaction in normal condition.
reactions	
Conditions to avoid	: Heat, flame, ignition or conditions that can cause static electricity.
Incompatible materials	: Reactive with oxidizing agents, acids, alkalis, nitrates, chlorites, peroxide.
Hazardous decomposition products	: Carbon oxides (CO, CO ₂), 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 ³ . 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	:	No data available. Suspected that it may not cause serious
	damage/irritation		eye damage or irritation according to compound or product which has similar structure or composition.
٠	Respiratory or skin	:	No data available. Suspected that it may not cause
	sensitization		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.
٠	Carcinogenicity	:	May cause cancer.
•	Reproductive toxicity	:	No data available. Suspected that it may not toxic to reproductive organs according to compound or product which has similar structure or composition.
•	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) Dermal - systemic effects: Adverse effect observed LOAEL 30 mg/kg bw/day
			(subchronic, 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.
	ormation on the likely tes exposure	:	Skin contact and ingested.



11. TOXICOLOGICAL INFORMATIO	Ν	
Symptoms related to the	:	No data available. Further testing has not been done.
physical, chemical, and		
toxicological characteristics		
Delayed and immediate	:	No data available. Further testing has not been done.
effects, and also chronic		
effects from both short or		
long term exposure		
Numerical measure of	:	No data available. Further testing has not been done.
toxicity		
Interative effects	:	No data available. Further testing has not been done.
Where specific chemical data	:	No data available. Further testing has not been done.
are not available		
Mixture	:	No data available. Further testing has not been done.
Mixture vs. Ingredient	:	No data available. Further testing has not been done.
information		
Other in formation	:	No data available. Further testing has not been done.

12. ECOLOGICAL INFORMATION	
Ecotoxicity	 Short-term toxicity to fish: LL50 (4 days) 1 g/L Short-term toxicity to aquatic invertebrates: EL50 (48 h) 35.9 mg/L Long-term toxicity to aquatic invertebrates: NOELR (21 days) 100 μg/L LOELR (21 days) 1.1 mg/L Toxicity to algae and cyanobacteria: EL50 (72 h) 18.8 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	

15. DISPUSAL 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. 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	
Safety, health, and environmental regulation (specific for the product in question)	 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 Peraturan Pemerintah Republik Indonesia, Nomor 74 Tahun 2001 Tentang Pengelolaan Bahan Berbahaya dan Beracun Presiden Republik Indonesia Keputusan Menteri Tenaga Kerja No Kep- 187/Men/1999 tentang Pengendalian Bahan Kimia Berbahaya Peraturan Menteri Kesehatan Republik Indonesia Nomor 70 Tahun 2016 tentang Standar dan Persyaratan Kesehatan Lingkungan Kerja Industri ACGIH[®]. 2016. TLVs[®] and BEIs[®]
16. OTHER INFORMATION	
	: 2017
Key/legend or acronym used in the SDS	 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 LOAEL - Lowest Observed Adverse Effect Level PVC - Poly Vinile Chloride RID/ADR - Regulation concerning the International Carriage of Dangerous Goods by Rail / European Agreement concerning the International Carriage of Dangerous Goods by Road SCBA - Self Contained Breathing Apparatus TLV - Threshold Limit Value TWA - Time-Weighted Average UN - United Nations USA DOT - United States Department of Transportation
Key literature references and sources for data used in	: echa.europa.eu



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

	White
\odot	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.

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the SDS NFPA