

1. IDENTIFICATION Product identifier	
	: PERTASOL CC
Other means of	: LAWS 4, Paraffinic, Napththenic, Aliphatic Solvent
identification	-
Recommended use of the	: These products are used as diluents for paints, lacquers &
chemical and restrictions on	varnishes; solvents & diluents on the printing ink
use Manufacturer	 industry; components in the manufacture of retreaded tires; adhesives, pharmaceutical industry, cleaning and degreasing industries; supporting printing process in textile industry; thinner & resin industry. PT Pertamina (Persero) Jl. Medan Merdeka Timur No. 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 Hazards
Hazaru statement	H350 - May cause cancer.
Precautionary statement	: Prevention
Frecautionary statement	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.
	<u>Response</u> P308 + P313 – IF exposed or concerned: Get medical
	advice/attention.
	Storage
	P405 - Store locked up
	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/INFORMATIO		
Chemical Name	CAS No.	Concentration (%)
Distilates, hydrotreated heavy naphthenic	64742-52-5	>99
4. FIRST AID MEASURES		
Necessary description	Rinse	
In case of eye contact	: Flush eyes with plenty department immediat	of water. Contact medical rely
In case of skin contact		ed skin with water and soap. In the contaminated clothing before pre reuse.
• If inhaled	: Remove the affected medical attention.	d person to fresh air and obtair
If swallowed		ng. Give activated charcoal (2-3) lk or water. Obtain medical ospital immediately.
Most important symptoms/effects	exposure can cause in skin. High concentration	when exposed to fluid. Repeated rritation, redness, and crust on the ions can cause headaches, fainting, tations. May cause loss of balance, omiting if swallowed.
Indication of Immediate medical attention and special treatment needed	: No data available.	ŭ

5.	FIRE-FIGHTING MEASURES		
	Suitable extinguishing media Unsuitable extinguishing media	:	Carbon dioxide (CO_{2} , dry chemical powder and foam No data available
	 Specific hazards Other explosion and fire hazards Flash point °C 	:	Fire and explosion hazards may occur in unprotected storage tank near fire location. 23 °C.
	Flammability value Hazardous chemical composition Special protective actions for fire fighters	:	No data available Carbon monoxide (CO)
	a. Carbon dioxide (CO ₂)	:	Spray it to the base of fire from upwind
	b. Dry chemical powder	:	Spray it to the base of fire from upwind
	c. Foam	:	If the fire is in a container, spray the foam to inner wall of the container (not to the ignited liquid) in the same direction with the wind. If the fire occurs because spill,



5. FIRE-FIGHTING MEASURES	
	spray to the origin of fire in the same direction with wind until all the fire covered. Do not dispose the spill to the clean water source (drinking water).
Special protective equipment for fire-fighter	: If fire occurs in limited/indoor/closed area, fire fighter operator must wear Self-Contained Breathing Apparatus (SCBA).

6. ACCIDENTAL RELEASE MEASUR	. ACCIDENTAL RELEASE MEASURES				
Personal precautions, protective equipment, and emergency procedures	: Notify the author promptly about the occurrence of the spills.				
Environmental precautions	: Prevent spill into drainage, sewage system, or its seepage into the soil.				
Procedures	: In the event of a spill expected to enter a drain or stream immediately report it to the authorized officer.				
Methods and materials for containment and cleaning up	: Eliminate all possible ignition condition. Do oil spi absorption using sorbent, sawdust, vermiculate, and other fire retardant material. Clean and dispose cleaned material in the right waste disposal according to valid regulations.				

7. HANDLING AND STORAGE	
Precautions for safe handling	: Avoid steam or mist from being sucked by the airway. Use blast-proof equipment and do not spray. Movable containers must pass the feasibility test. When filling, the container should be placed on the ground surface, where the cover should be in the container to prevent static electricity.
Conditions for safe storage (including any incompatibility)	 Storage areas should be grounded and bonded and equipped with pressure vacuum valve and flame arrester. Keep away from combustible materials, fire, electricity or other sources of heat.

8. EXPOSURE CONTROLS/PERSONA	AL PROTECTION
Control parameters	
• Exposure limit	5 mg / m³ (as total hydrocarbon vapor).
 Biological exposure : indicator 	No data available
Appropriate engineering control	
Ventilation	 If the product is used in a relatively closed room then it should be equipped with exhaust fan (exhaust fan). Ventilation and equipment used shall be explosion-proof.



8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Individual protection

measures

•	Eye and face protection	:	Wear eye protection (<i>chemical type goggles</i>).
•	Skin protection	:	Wear protective gloves (leather or PVC). Apply good personal hygiene.
•	Respiratory protection	:	Wear respiratory protection when the pollution concentration in the air is higher than the permissible TLV.
•	Hygiene practices	:	Wash hands at rest and after work. Do not eat and drink while using the product.

No smoking while using the product.

9. PHYSICAL AND CHEMICAL PROPERTIES	
Characteristic	Test Result
Organoleptic (physical appearance, color, etc)	: Liquid
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting/freezing point	: 0°C atb101.235 kPa*
Boiling point/boiling range	: 120°C
Flammability	: Non-flammable
Flash point	: 23 °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	: 782 - 796 kg/m ³ at 15 $^{\circ}$ C
Relative density	: No data available
Solubility	
Water solubility	: No data available
Other solubility	: No data available
Partition coefficient (n-octanol/water)	: -0.12
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: 1.170 cSt pada 25 °C
*Data refers to ECHA Europe	

10. STABILITY AND REACTIVITY Reactivity Polymerization of hazardous materials is not formed. : **Chemical stability** Stable : Posibility of hazardous : No hazardous reaction if handled and stored according to reactions regulations Heat, fire sparks, flame, or condition that induce Conditions to avoid : electrostatic. Prevent the formation of steam



		accumulation.
Incompatible materials	:	Halogen, strong acid, strong base dan strong oxidizer.
Hazardous decomposition	:	Carbon monoxide (CO).
products		

11. TOXICOLOGICAL INFORMATION				
Comprehensive toxicolog				
Acute toxicity	 Oral: No adverse effect observed LD50 5000 mg / kg. Inhalation: No adverse effect observed LC50 5000 mg / m3. 			
	Dermal: No adverse effect observed LD50 2000 mg / kg.			
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 damage or irritation to the eye according to compound or product which has similar structure or composition. 			
 Skin sensitization/ inhalation 	: 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 mutagenic	according to compound or product which has similar structure or composition.			
Carcinogenicity	: Expected to cause cancer			
Reproductive toxicit	 No data available. Suspected that it is not mutagen according to compound or product which has similar structure or composition. 			
• STOT - Single exposu	 ure : No data available. Suspected that it is not toxic to specific target organs after single exposure according to compound or product which has similar structure or composition. 			
• STOT - Repeated exposure	 Oral - systemic effect: Cause adverse effect to LOAEL 125 mg / kg bw / day (sub chronic, mice). Dermal - systemic effect: Cause adverse effect to LOAEL 100 mg / kg bw / day (chronic, rat). Inhalation - systemic effect: No adverse effects on NOAEC 980 mg / m³ bw / day (subacute, mice). 			
Aspiration hazards	 No data available. Suspected that it is not aspiration hazards according to compound or product which has similar structure or composition. 			
 Information about the route of exposure 	he Inhaled, ingested, skin contact, and eye contact.			



11. TOXICOLOGICAL INFORMATION				
 A collection of symptoms related to physical, chemical and toxicological propertie 				
 Acute, delayed, and chronic effects of short and long term exposur 	-			
 Numerical size of the toxicity level 	: No data available. Further testing has not been done.			
Interactive effect	: No data available. Further testing has not been done.			
• If chemical data is not specifically available	: No data available. Further testing has not been done.			
Mixtures	: No data available. Further testing has not been done.			
 Mixtures vs composed materials 	: No data available. Further testing has not been done.			
Other information	: No data available. Further testing has not been done.			

12. ECOLOGICAL INFORMATION	
Ecotoxicity	 Short-term toxicity in fish: LL50 (4 days) 100 mg / L Short-term toxicity in aquatic invertebrates: LL50 (48 hours) 10 g / L EL50 (48 hours) 10 g / L
Persistence and degradability Bioaccumulation potential Mobility in soil Other adverse effects	 No data available. Further testing has not been done. No data available. Further testing has not been done. No data available. Further testing has not been done. Seepage of this substance to the soil can contaminate soilwater or aquifer

13. DISPOSAL CONSIDERATION	
Disposal methods	: This product may be burned with incinerator according to
	the valid regulation. This product also may be processed
	in a recycling unit specified by the government.

*Law information: this product sludge waste is classified as hazardous waste (except it is not proven after TCLP (Toxicity Characteristic Leaching Procedure) testing), so that the disposal must follow valid provision.

14. TRANSPORT INFORMATION			ľ
USA DOT			
UN Number UN proper shipping name	:	UN 1300 Turpentine substitue	
Transport hazard class(es) Packing group (if available)	:	III PG I	



14. TRANSPORT INFORMATION	
Environmental hazard	: -
Special precautions for user	: -
(UN Model Regulation)	
<u>RID / ADR</u>	
UN Number	: UN 1300
UN proper shipping name	: -
Transport hazard class(es)	: 3 (Subclass-3)
Packing group (if available)	: PG III
Environmental hazard	: -
Special precautions for user	: -
<u>IMO</u>	
UN Number	: UN 1300
UN proper shipping name	: Turpentine Substitute
Transport hazard class(es)	: 3
Packing group (if available)	: PG I
Environmental hazard	: -
Special precautions for user	: -
<u>ICAO / IATA</u>	
UN Number	: UN 1300
UN proper shipping name	: Flammable liquid
Transport hazard class(es)	: 3
Packing group (if available)	: PG I
Environmental hazard	: No data available.
Special precautions for user	: No data available.

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 Keputusan Menteri Tenaga Kerja No Kep- 187/Men/1999 tentang Pengendalian Bahan Kimia Berbahaya Peraturan Direktur Jenderal Basis Industri Manufaktur Nomor 04/BIM/PER/1/2014 Tentang Petunjuk Teknis dan Petunjuk Pengawasan Pelaksanaan Sistem Harmonisasi Global Klasifikasi dan Label pada Bahan Kimia ACGIH[®]. 2016. TLVs[®] and BEIs[®] Terdaftar pada TSCA EINECS/ELINCS dan AICS



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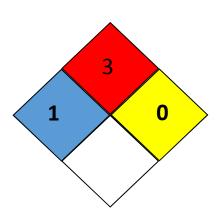
SAFETY DATA SHEET

15. REGULATORY INFORMATION

OSHA 29 CFR 1910.1200

6. OTHER INFORMATION		
Revision date :	2017	
Key/legend or acronym used :	ACGIH - American Conference on Governmental	
in the SDS	Industrial Hygienist	
	BEI (Biological Exposure Indices)	
	CAS No Chemical Abstract Service Number	
	SCBA - Self Contained Breathing Apparatus	
	PVC - Poly Vinyl Chlorida	
	LEL - Lower Explosion Limit	
	UEL- Upper Explosion Limit	
	TCLP - Toxicity Characteristic Leaching Procedure	
	B3 - Bahan Beracun dan Berbahaya	
	USA DOT - United States Department of Transportation	
	RID/ADR - European Agreements Concerning the	
	International Carriage of Dangerous Goods by Rail and by road	
	IMO - International Maritime Organization	
	ICAO/IATA - International Civil Organization Aviation/	
	International Air Transport Association	
	UN - United Nations	
	PBB - Perserikatan Bangsa-Bangsa	
	PG - Packing Group	
Key literature references and :		
sources for data used in the	•	

Key literature references and sources for data used in the SDS NFPA



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Tingkatan	Merah	Biru	Kuning
0	Will not	Live	Normally
	burn	ordinary	stable
		material	
1	Must be	Slightly	Unstable if
	preheated	hazardous	heated -
	to burn		use normal
			precautions
2	Ignites at	Hazardous	Violent
	when	- use	chemical
	moderatel	breathing	change
	y heated	apparatus	possible -
			use hose
			streams for
			distance
3	Ignites at	Extremely	Strong
	normal	dangerous	shock or
	temperatu	- use	heat may
	res	protective	detonate -



16. OTHER INFORMATION

		clothing	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.