

1.	IDENTIFICATION		
	Product identifier	:	Green Petroleum Coke
	Other means of identification	:	Green Anode Coke, Row Coke
	Recommended use of the	:	1. It is the raw material of Calcined Coke, which is used as
	chemical and restrictions on		a decomposition material at the aluminum plant
	use		2. Reductor in tin smelting process
			3. Additional carbon enhancer in metal or steel smelting
			industry
			Fuel in cement industry and power plant
	Manufacturer	:	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	: Not classified
Signal word	: Not classified
Hazard statement	: Not classified
Precautionary statement	: Not classified
Pictogram	: -
Other hazards which do not result in classification	: Not classified

3. COMPOSITION/INFORMATIO	3. COMPOSITION/INFORMATION ON INGREDIENTS				
Chemical Name	CAS No.	Concentration (%)			
Coke (petroleum)	64741-79-3	100			
4. FIRST AID MEASURES					
Necessary description					
• In case of eye contact		nd plentifully with water, also under st 20 minutes. Remove contact lenses, do. Continue rinsing.			
In case of skin contact	underwear and shoe	 all contaminated clothing, including es. Rinse thoroughly with plenty of ninutes and take medical advice. 			
• If inhaled	comfortable for breat	esh air and keep at rest in a position thing. In case of breathing difficulties, necessary, seek medical advice.			
• If swallowed		iately and drink large quantities of vomiting. If swallowed, seek medical			



4.	FIRST AID MEASURES		
	Most important symptoms/effects	:	advice immediately and show this container or label. May cause respiratory irritation. Repeated exposure to aerosols may result in lung damage. May cause skin irritation. Prolonged or repeated contacts with the skin may cause dermatitis. May cause irritation to the eyes.
	Indication of Immediate medical attention and	:	No data available.
	special treatment needed, if		
	necessary		
	,		
-			
5.	FIRE-FIGHTING MEASURES		Water from chamical dry neurolay carbon disvide
	Suitable extinguishing media Unsuitable extinguishing	:	Water, foam, chemical dry powder, carbon dioxide Water spray
	media	•	water spray
	Specific hazards		
	• Other explosion and fire	:	Fire Hazard
	hazards		Flammable solid. Vapours may cause fire/explosion if source of ignition is present. May release flammable gases. Hydrogen sulfide. Combustion generates : carbon oxides (CO and CO2). Nitrogen oxides (NOx). hydrocarbons. Explosive Hazard Risk of explosion if heated in a confined system. Gas/vapour explosive with air within explosion limits.
	Flash point °C	:	No data available
	Flammability value	:	No data available.
	Hazardous chemical	:	In combustion: releases toxic (high) gas / vapors.
	composition		
	Special protective actions for		
	fire fighters		Cool tanks/drums with water spray/remove them into
	a. Water spray	•	safety.
	b. Dry chemical powder	:	Spray it to the base of fire from upwind.
	c. Carbon dioxide (CO ₂)	:	Spray it to the base of fire from upwind.
	Special protective equipment for fire-fighter	:	Extra personal protection: complete protective clothing including self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES	
Personal precautions, :	Eliminate all ignition sources if safe to do so. No flames, No
protective equipment, and	sparks. Eliminate all sources of ignition. Do not touch
emergency procedures	damaged containers or spilled material unless wearing
	approriate protective clothing. Evacuate unnecessary
	personnel. Avoid generation of dust. Ventilate affected



6. ACCIDENTAL RELEASE MEASUR	
Environmental precautions	 area. Stop leaks in water without risk. The material will floa contact the specialist. Eliminate all ignisi sources. War shipping activities. Do not discharge into drains or the environment. Do not discharge into drains or the environment.
	discharge into surface water.
Procedures	: Report the occurrence of a spill according to the loca authorization specified when the spill is expected t contaminate the drains.
Methods and materials for containment and cleaning up	: Ventilate affected area. Avoid generation of dust. Sweep or shovel spills into appropriate container for disposal. Dispose of this material and its container t hazardous or special waste collection point. Avoid raisin powdered materials into airborne dust. Do not empty int drains or the aquatic environment.
7. HANDLING AND STORAGE	
Precautions for safe handling	: Handle in accordance with good industrial hygiene an safety procedures. Carry operations in the open/unde local exhaust/ventilation or with respiratory protection. Wash hands and other exposed areas with mild soap an water before eat, drink or smoke and when leaving word. Do not eat, drink and do not smoke in areas where product is used. Take off contaminated clothing and wash before reuse.
Conditions for safe storage (including any incompatibilities)	: Protect from sunlight. Store in a well-ventilated place. Kee away from open flames, hot surfaces and sources of ignition. Keep container tightly closed. Store at room temperature. Keep coke piles wet to avoid environment pollution due to fineparticles of the product. Store at room temperature. Store according to loce legislation.

8.	8. EXPOSURE CONTROLS/PERSONAL PROTECTION			
	Control parameters			
	Exposure limit	:	TWA 5 mg/m ³	
	 Biological exposure indicator 	:	No data available.	
	Appropriate engineering control			
	Ventilation	:	Provide adequate ventilation. Provide local exhaust or general room ventilation to minimize vapour concentrations. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Contact lenses should not be worn.	



8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Individual protection measures

- Eye and face : Chemical goggles or safety glasses. Contact lenses should not be worn.
 - **Skin protection** : Protective gloves made of PVC. Wear suitable protective clothing.
- Respiratory : No data available. protection
 Hygiene practices : Wash hands at rest an

: 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)	:	Solid, black
Odor	:	None
Odor threshold	:	No data available.
рН	:	No data available.
Melting/freezing point	:	No data available.
Boiling point/boiling range	:	No data available.
Flammability	:	No data available.
Flash point	:	No data available.
Evaporation rate	:	No data available.
Lower/upper flammability limit and explosion limit	:	No data available.
Vapor pressure	:	No data available.
Vapor density	:	No data available.
Relative density	:	No data available.
Solubility		
Water solubility	:	Insoluble
Other solubility	:	Soluble in toluene
Partition coefficient (n-octanol/water)	:	No data available.
Auto-ignition temperature	:	No data available.
Decomposition temperature	:	No data available.
Viscosity	:	No data available.

10. STABILITY AND REACTIVITY	
Reactivity	: Polymerization of hazardous materials is not formed.
Chemical stability	: The product is stable at normal handling- and storage conditions. No polymerization.
Posibility of hazardous reactions Conditions to avoid	When mixed with air and exposed to an ignition source, dust may burn in the open air or explode if confined.Heat sources. Keep out of direct sunlight.



10. STABILITY AND REACTIVITY	
Incompatible materials	: Strong oxidizing agents. Chlorates. chromic acid.
Hazardous decomposition	: On burning: release of (highly) toxic gases/vapours.
products	

11. TOXICOLOGICAL INFORMATION

Comprehensive toxicological/health information

•	Acute toxicity	:	No data available. Suspected not to cause acute toxicity. This statement is derived from compounds or products that have similar structures or compositions
•	Skin corrosion/	:	No data available. Suspected that it may not cause skin
	irritation	•	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	-	damage or irritation to the eye according to compound or
			product which has similar structure or composition.
•	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.
•	Carcinogenicity	:	No data available. Suspected that it may not cause cancer
	0 /		according to compound or product which has similar
			structure or composition.
•	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
			target organs after single exposure according to compound
			or product which has similar structure or composition.
•	STOT-repeated	:	No data available. Suspected that it is not toxic to specific
	exposure		organs after repeated exposure according to compound or
			product which has similar structure or composition.
•	Aspiration hazards	:	No data available. Suspected that it is not aspiration
			hazards according to compound or product which has
			similar structure or composition.
	ormation on the likely	:	Inhaled, skin contact, eye contact
	ites exposure		
-	nptoms related to the	:	No data available. Further testing has not been done.
	/sical, chemical, and		
	icological characteristics		
Delayed and immediate		:	No data available. Further testing has not been done.
	ects, and also chronic		
	ects from both short or		
	g term exposure		No data available. Evether tooting has not been derive
NU	merical measure of	:	No data available. Further testing has not been done.



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1. TOXICOLOGICAL INFORMATIO	N	
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	:	Prolonged or repeated exposure to skin may cause
		dermatitis. Chronic exposure to highly dust concentration
		causes lung damage. Dust of this product may cause
		respiratory irritation. Dust of this product may cause skin
		irritation. Dust of this product may cause eye irritation.

Ecotoxicity	: No data available. Further testing has not been done.
Persistence and degradability	: This product is expected to have a low potential to degrad and thus is expected to persist in the environment.
Bioaccumulative potential	 Potential bio-accumulation but metabolism and physical properties can reduce bio-concentration or limit bio- availability.
Mobility in soil	: Low solubility to water, is expected to float and migrate into sediment. It is expected to be partitioned into sediment and solid waste.
Other adverse effects	: No data available. Further testing has not been done.

13. DISPUSAL CONSIDERATION	
Disposal methods	 Disposal must be done according to official regulations. Consult the local waste disposal expert about waste disposal. Disposal through controlled incineration or authorised waste dump. Do not re-use empty containers.

14. TRANSPORT INFORMATION	
USA DOT	: Not classified
RID / ADR	: Not classified
IMO	: Not classified
ΙCAO / ΙΑΤΑ	. Not classified

15. REGULATORY INFORMATION				
Safety, health, and [:] environmental regulation (specific for the product in	-	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		



use hose streams from distance

	SAFETY DAT	A SHEET		
15. REGULATORY INFORMATION				
question)	Label p	ada Bahan Kimia		
ц,	 Peratur Tahun 2 dan Ber Keputus 187/Me Berbaha 	an Pemerintah F 2001 Tentang Pe acun Presiden R san Menteri en/1999 tentan	Republik Indor ngelolaan Bah epublik Indon Tenaga K g Pengendali	an Berbahaya esia erja No Kep
16. OTHER INFORMATION				
Revision date :	2017			
Key/legend or acronym : used in the SDS	Hygienist BEI - Biologica CAS No Che IMO - Interna ICAO/IATA - International PVC - Poly Vir SCBA - Self Co RID/ADR - International road TLV - Thresho TWA - Time-V	al Exposure Indic mical Abstract S tional Maritime International Air Transport As oyl Chloride ontained Breathi European Carriage of Da Id Limit Value Veighted Averag ited States Depa	ervice Numbe Organization Civil Organ sociation ng Apparatus Agreements ngerous Good	nization Aviatio Concerning tl ds by Rail and I
Key literature references :	http://sites.p	etrobras.com.br	/minisite/read	h/downloads/fic
and sources for data used	• • • •	gles/PGT-BV-SD		
in the SDS	echa.europe.	eu		
NFPA :	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 –



16. OTHER INFORM	ΛΑΤΙΟΝ
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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.