

## Carbon Reduction Label and Certified Products (Considering only production processes)

A New Alternative... for Combating Global Warming



Carbon Reduction Label and Certified Products (Considering only production processes) A New Alternative... for Combating Global Warming

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o promote and raise awareness among producers of products and services, and consumers in Thailand and to provide a platform for producers and consumers to participate in the reduction of greenhouse gas emissions - the main cause of the global warming problem, Thailand Greenhouse Gas Management Organization (Public Organization), Thailand Business Council for Sustainable Development (TBCSD) and Thailand Environment Institute (TEI) have jointly published a book titled Carbon Reduction Label and Certified Products (Considering only production processes): A New Approach... for Combating Global Warming, in which a list of products with the Carbon Reduction Label from 2008-2011 is gathered as preliminary information for consumers on products whose production processes are verified to have greenhouse gas emissions reduction or to have a low level of greenhouse gases emission, and as a reference for consumers in purchasing Carbon Reduction Products. Additionally, the Thai export-oriented manufacturing sector can utilize the Carbon Reduction Label as a preparation step for non-tariff barriers, which can be imposed by importing countries.

The author hopes that the book will provide benefits for all concerned parties in improving production of products and services to be more environmental-friendly, and providing an environmental-friendly alternative for consumers to purchase a wide variety of **Carbon Reduction Products**.

Thailand Greenhouse Gas Management Organization (Public Organization) Thailand Business Council for Sustainable Development (TBCSD) Thailand Environment Institute (TEI)



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## EDITORIAL NOTES

BACKGROUND

s greenhouse gas emissions are the main cause of the global warming, affected countries across the world have increasingly paid attention to the problem with attempts to ease the escalating climate change problem. One of practical and useful measures for battling the global warming is the collective cooperation from industrial and agricultural sectors, as producers of products; the service sector, as drivers or operators of business activities; and the general public, as consumers, in significantly reducing the greenhouse gas emissions. The greenhouse gas emissions reduction activities of consumers can be linked with the product manufacturers and service providers by purchasing environmental-friendly and climate friendly products and services. To support consumers in making decisions for purchasing climate friendly, Thailand Greenhouse Gas Management Organization (Public Organization), Thailand Business Council for Sustainable Development (TBCSD) and Thailand Environment Institute (TEI) have jointly launched the Carbon Reduction Label to encourage product manufacturers and service providers to improve the efficiency of production processes. The Carbon Reduction Label shows the reduction of greenhouse gas emissions emitted from the production process of each product and service. This information will be communicated to consumers, so that consumers can use this information as a purchasing criterion and be part of the worldwide attempts to ease the global warming problem.



#### WHAT IS CARBON REDUCTION LABEL?

**Carbon Reduction Label** is a label indicating the reduction of greenhouse gas emissions per unit of product/service as a simple reference for consumers to decide on what items of products or services they should purchase.

#### **OBJECTIVES**

- To promote the provision of verified information on reduced greenhouse gas emissions, as a label on products and services sold on the market, to support consumers' participation in reducing greenhouse gas emissions in the production process of each product and service.

- To use the market mechanism in raising awareness of producers and consumers on greenhouse emissions, leading to the reduction of greenhouse gas emissions in Thailand.

- To be part of the world community's attempts in reducing the greenhouse gas emissions.

#### **ADVANTAGES:**

- Products or services certified and registered the Carbon Reduction Label become a new criterion for consumers and foreign visitors to decide on what products and services they should purchase.

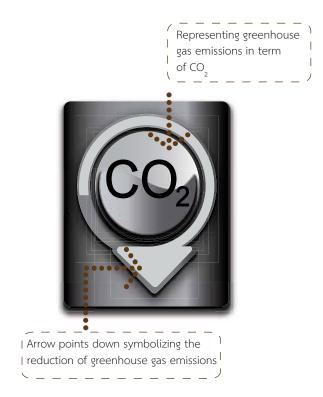
- The Carbon Reduction Label reflects the awareness of product manufacturers and service providers on environmental problems by providing climate friendly products and services; as well as, portrays social responsibility and good corporate image for manufacturers and providers.

- The Carbon Reduction Label is a high potential part of the market mechanism to move product manufacturers and service providers towards low-carbon economy.

- Entrepreneurs whose products or services are certified with the Carbon Reduction Label directly benefit from the cost reduction in production processes (originated from the reductions of fossil fuel and power consumptions in production processes, and waste generation). This movement will further create changes in the supply chain towards climate friendly practices, especially for the change of raw material acquisition.



#### STANDARD FORM OF CARBON REDUCTION LABEL



#### EXPIRY OF CARBON REDUCTION LABEL

The Carbon Reduction Label is valid for three years counting from the approval date.

#### FRAMEWORK FOR CARBON REDUCTION LABEL CERTIFI-CATION (Considering only production processes)

A four-factor framework is taken into consideration when approving the Carbon Reduction Label for products and services, assessing the amount of greenhouse gas emissions involving the four factors in the production process of each product or service. The four factors include electricity, fossil fuel, raw materials and waste management.



#### CRITERIA FOR CARBON REDUCTION LABEL CERTIFICA-TION (Considering only production processes)

- Greenhouse gas emissions are reduced by at least 10 percent on average in the production process of each product or service, involving the four factors mentioned. Greenhouse gas emission data in 2002 are compared with the data of the recent year (with 12 months data) when assessing the reduced greenhouse gas emissions, or

- The production process of each product or service is to rely on power or electricity generated by biomass materials or fuel or from wastes incurring in an industrial plant. Purchase of electricity from outside sources is limited to no more than 5 percent of total power used in the production process of each product and service, and the use of fossil fuel in the production process is not allowed (except for the start-up of a power generating system and for on-site transportation). Additionally, there is no greenhouse gas emissions from wastes (namely wastewater of the manufacturing plant and residues of materials and garbage) in the production plant, or

- If there is a state-of-the-art production technology (contributed to the reduction of GHG emission) being used, the executive committee will consider case by case.

# ASSESSING GREENHOUSE GAS EMISSIONS (considering only production processes)

#### 1. Use of Power or Electricity

Compare the carbon dioxide emissions from power or electricity used in the production process of each product and service in the present year (with 12 months data), with the carbon dioxide emissions in 2002. The greenhouse gas emission factor of the electricity generation in Thailand is calculated and concluded in a study report by Thailand Greenhouse Gas Management Organization (Public Organization), (greenhouse gas emission factor is 0.5812 kgCO<sub>2</sub>e/ kWh for 2009).

2. Use of Fossil Fuel in the Production and Transport Within Industrial Plant

Compare the carbon dioxide emissions from power and electricity used in the production process of each product, generated from fossil fuel consumption, in the present year (with 12 months data), with the carbon dioxide emis-



sions in 2002. The greenhouse gas emission factors based for each type of fuel used at a certain amount was calculated and concluded in separate study reports prioritized as the following:

1) A study report of industrial plants joining the Carbon Reduction Label Project

2) A study report of the Thai Ministry of Energy's Department of Alternative Energy Development and Efficiency

3) A study report on "2006 IPCC Guidelines for National Greenhouse Gas Inventories" of the Intergovernmental Panel on Climate Change (IPCC)

Examples of the greenhouse gas emission factors based on each type of fuel used at a certain amount which were calculated and concluded by separate study reports of the Department of Alternative Energy Development and Efficiency and IPCC are...

Fuel Type	Emission Factor	Unit
Diesel Oil Oil Fuel A	2.770 2.9566	kilograms CO <sub>2</sub> equivalent per Liter kilograms CO <sub>2</sub> equivalent per Liter
Oil Fuel C LPG	3.1734 3.1689	kilograms CO <sub>2</sub> equivalent per Liter kilograms CO <sub>2</sub> equivalent per kilogram LPG

#### 3. Use of Raw Materials in Production Process

Some raw materials used in the production process for manufacturing products cause carbon dioxide emissions, such as the use of limestone in cement production. Therefore, the assessment and calculation for the amount of carbon dioxide emissions from each raw material are needed. The calcula-



tion is performed by comparing figures in the present year (with 12 months data) with the baseline data in 2002.

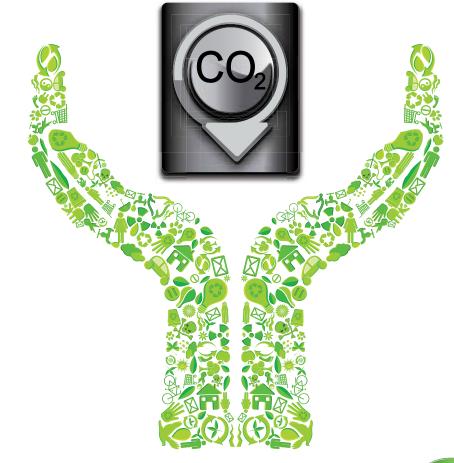
#### 4. Waste and Wastewater Management

Assessing and calculating greenhouse gas emissions are performed by considering waste and wastewater management system, and amount waste and wastewater. Different types of wastes/wastewater emit different amounts of greenhouse gas emissions; therefore, system and amount of waste and wastewater related to product manufacturing and service provisioning are considered.





## CARBON REDUCTION LABEL THE PUSH FOR SUSTAINABLE CONSUMPTION





# Foods and Beverages Products



DoiThour	Doi Kham food products Co., Ltd.
PRODUCT OF ROYAL PROJECT	
•	and minister
Location	173 Ratchasima Road, Dusit, Bangkok
	(66 2) 628-9100-8
	www.doikham.co.th
Type of Business	Production and distribution of processed
	fruits and vegetables
Registered Product	E Dehydrated Strawberry
Certified Product	
Approval Date	February 4, 2009

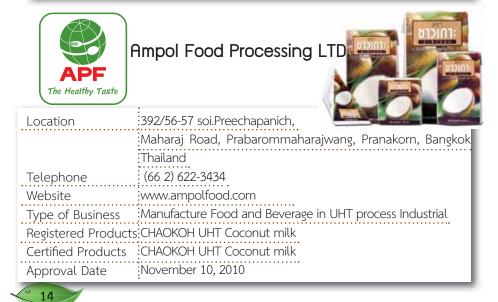


# Lam Soon Lam Soon (Thailand) Public Company Limited

Location	236 Moo 4 Bangpoo Industrial Estate,
••••••	Sukhumvit Rd., Tambol Prakasa,
	Amphur Muang, Samutprakarn 10280
Telephone	(662) 709-3610-24
Website	www.lamsoon.co.th
	Vegetable Oil, Margarine and Shortening Manufacturer
Registered Products	Jade Brand Palm Olein Bottle and
	Jade Brand Palm Olein Refill Bag
Certified Products	1.Jade Brand Palm Olein Bottle (250cc., 500cc.,
	1 litre, 2 litres)
	2.Jade Brand Palm Olein Refill Bag (1 litre)
Approval Date	: March 13, 2009



Mitr Phol Sugar Group				
Location	3 <sup>rd</sup> Floor, Ploenchit Center,			
Telephone Website	2 Sukhumvit Road, Klongtoey, Bangkok 10110 (66 2) 656-8488 www.mitrphol.com			
Type of Business	Sugar and bio-energy industry			
Registered Product	Natural mineral sugar by Mitr Phol Gold, Refined sugar by Mitr Phol, Rock sugar, Brown sugar by Mitr Phol and Sugar by Bee Crystal			
Certified Products	1. Natural mineral sugar by Mitr Phol Gold			
Approval Date	June 16, 2009			
Certified Products	2. Refined sugar by Mitr Phol, 3. Rock sugar by Mitr Phol			
Approval Date	November 2, 2009			
Certified Products	4. Brown sugar by Mitr Phol			
Approval Date	March 11, 2011 and			
Certified Products l	5. Sugar by Bee Crystal			
Approval Date	April 19, 2011			



WANGKANAI	angkanai Group
Location	: 889 Thai CC Tower 28th Floor, South-
Telephone Website Type of Business	Sathorn Road, Yannawa Sathorn Bangkok 10120 (66 2) 210-0853-72 www.wangkanai.co.th Production and Distribution of Sugar Natural Sugar, White Sugar and Refined Sugar
Certified Products	<ol> <li>Natural Sugar, White Sugar and Reinfed Sugar</li> <li>Natural Sugar Wangkanai Brand</li> <li>White Sugar Wangkanai Brand</li> <li>Refined Sugar Wangkanai Brand</li> <li>Sugar DC Raw Sugar (Very High Polarization)</li> <li>Wangkanai Brand</li> </ol>
Approval Date Certified Products Approval Date	July 28, 2010 and 5. Natural Sugar (Örganic Sugar) Wangkanai Brand December 27, 2010

Green Spot	Green Spot Co. Ltd.
Location	288 Srinagarindra Road, Hua Mak,
Telephone	Bangkapi, Bangkok 10240 Thailand (66 2) 533-0280-5
Website	www.greenspot.co.th
Type of Business	Production and distribution of beverage
Registered Product	Soymilk under VITAMILK brand
Certified Products	Soymilk under VITAMILK brand
	1. UHT Plus Soymilk Formula (Vitamin Added) (8%Sugar)
	2. UHT Low Sugar Formula (4.5% Sugar)
	3. UHT Vegetarian Formula (5% Sugar)
Approval Date	June 1, 2010 and
	4. To-go Soymilk under VITAMILK brand
Approval Date	August 31, 2011
	15

# Packaging Products



Tetra Pak	etra Pak (Thailand) Ltd.
Location	1042 Sukhumvit Soi 66/1, Sukhumvit Road, Bangchak,
Telephone Website Type of Business	Prakanong, Bangkok (66 2) 704-3000 www.tetrapak.com Produce and distribute food processing, packaging lines, and heverage catton packaging products
Registed Products Certificated Product Approval Date	and beverage carton packaging products Beverage cartons s Tetra Pak cartons March 13, 2009



# Construction Materials Products



SHER	
CHALLENGING POSS	Concrete Roof Tile Co.,Ltd.
Location	59/9 Moo 12
	Saraburi-Lomsak Road
	K.M. 16, Chongsarika,
	Pattananikom, Lopburi 15220 Thailand
Telephone	(66 36) 638-888
Website	www.mahaphant.com
Type of Business	Production and Distribution of Wood Substitute and Fibre Cement
	Board
Registered Product	
	2. SHERA plank Teak texture, uncolored
Approval Data	3. SHERA plank Teak texture, pre-painted color
Approval Date Certified Products	February 4, 2009 and
	<ul><li>4. SHERA splendid plank Teak texture, pre-painted color, Cool white kefir</li><li>5. SHERA eaves, uncolored</li></ul>
	6. SHERA eaves, pre-painted color
	7. SHERA strip, uncolored
	8. SHERA board for floor, wall, ceiling
Approval Date	March 17, 2010
SCC	
SCG Cemen	t Co.,Ltd.
Location	1 Siam Cement Road, Bangsue, Bangkok 10800, Thailand
Telephone	(66 2) 586-2222
Website	www.scg.co.th
Type of Busines	• • • • • • • • • • • • • • • • • • • •
•••••	ucts Tiger Mixed Cement and Tra Chang Portland Cement Type 1
Certified Produc	ts 1. Tiger Mixed Cement

Approval DateJune 16, 2009 andCertified Products2. Tra Chang Portland Cement Type 1Approval DateMarch 17, 2010

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TPIPL	TPI Polene Public Company Limited
Location	26/56 Chan Tat Mai Road, Thungmahamek,
Registered Produc	Sathorn, Bangkok 10120, Thailand (66 2) 678-6543, (66 2) 285-5090 www.tpipolene.co.th Manufacture and Supply of Cement and LDPE / EVA plastic resin ts Cement and Dry Mortar 1. PORTLAND CEMENT ASTM TYPE I (TPI Red Brand) 2. MIXED CEMENT (TPI Green Brand) 3. PLASTERING DRY MORTAR (TPI M200 Brand) 4. PLASTERING DRY MORTAR FOR LIGHTWEIGHT BLOCK (TPI M210 Brand)
Approval Date	<ol> <li>5. PORTLAND CEMENT ASTM TYPE 1 (TPI 299 Brand)</li> <li>6. PORTLAND CEMENT ASTM TYPE 3 (TPI Black Brand)</li> <li>7. PORTLAND CEMENT ASTM TYPE 5 (TPI Blue Brand)</li> <li>8. MIXED CEMENT (TPI 199 Brand)</li> <li>9. MIXED CEMENT (TPI 197 Brand)</li> <li>10. MIXED CEMENT (TPI Green Super Brand)</li> <li>11. OIL WELL CEMENT CLASS G : Type HSR February 4, 2009</li> </ol>



Siam City Cement Public Company Limited

Location	99 Moo 9, Mitraparb	Road, Tabkw	/ang, Kangkoy	, Saraburi 182	260, Thailand
Telephone	(66 36) 240-930				
Website	www.siamcityceme	ent.com			- 1
Type of Business	Manufacture				- 1
Registered Product	INSEE		a në		
Certified Products	1. INSEE PETCH	OUNS	OULIS	อีนกรู	OUNS
	2. INSEE DANG	ระเทรี	SUNS	อแกร์	anš
	3. INSEE DUM	Ventus	100	and and	
	4. INSEE PHA	Re-	Re-	R	1
Approval Date	February 4, 2009	E-	the second	and the second	
					19

The Siam Ceramic Group Industries Co.,Ltd.



Location	40 Moo 2, Rimklongrapeepat Road,
	Nongpling, Nongkae, Saraburi, Thailand
Telephone	(66 36) 376-400
Website	www.sgitiles.com
Type of Business	Wall Tiles and Floor Tiles
Registered Products	Wall Tiles and Floor Tiles brand "SGI TILES"
Certified Products	1. Wall Tiles brand "SGI TILES"
	2. Floor Tiles brand "SGI TILES"
Approval Date	March 13, 2009



Thai-German Ceramic Industry Public Company Limited



Location	61 Moo 1, Nong khae Industrial Estate, Phaholyothin Road,
•••••	Km. 91-92, Khok Yae, Nong khae, Saraburi 18230 Thailand
Telephone	(66 36) 376-100
Website	www.campanatiles.com
Type of Business	Production and Distribution Ceramic Floor and Wall Tiles
Registered Products	Floor and Wall Tiles ( CAMPANA )
	Floor Tiles ( CASA )
Certified Products	1. Floor Tiles ( CAMPANA )
	2. Floor Tiles ( CASA )
	March 13, 2009
Approval Date	3. Floor Tiles Rectify ( CAMPANA )
Certified Products	4. Wall Tiles ( CAMPANA )
Approval Date	March 17, 2010

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## COTTO<sup>®</sup> Thai Ceramic Company Limited



Location	33/1 Moo.2 Suwannasorn Road,
	Khok Yea, Nong khae, Saraburi 18230,Thailand
	Head office : 1 Siam Cement Rd., Bangsue Bangkok
	10800,Thailand
Telephone	(66 36) 382-888, (66 36) 382-999
Website	www.cotto.co.th
Type of Business	Manufacturing of Floor tiles ,Wall tiles, Granit tiles, Mosaic tiles,
	Glass tiles, Polishing tiles and Third fire tiles
Registered Product	s Floor tiles, COTTO Model Extra and Emperor
Certified Products	1. Floor tiles, COTTO Model Extra
	2. Floor tiles, COTTO Model Emperor
Approval Date	August 31, 2009



# Akzo Nobel Paints (Thailand) Limited.

Tomorrow's Answers Today	
Location	34/5 Moo 1, Chaeng Watana Road, Klongklue, Pakkred,
	Nonthaburi 11120 Thailand
Telephone	(66 2) 572-8600
Website	www.dulux.co.th
Type of Business	Manufacture and distribution of decorative paints, packaging coatings and thinner.
	· · · · · · · · · · · · · · · · · · ·
Registered Products	s: Solventborne decorative paints.
Certified Products	1. Solventborne paints under ICI Dulux brand
	2. Solventborne paints under ICI Supercote brand
	3. Solventborne paints under ICI Cuprinol brand
	······································
Approval Date	March 17, 2010



	arpets International Thailand Public company Limited
Location	80 Moo 1 Patumthani-Bangbuathong Road,
Tolophono	Bangkuwad, Muang, Patumthani 12000 (66 2) 976-0123
Telephone Website	www.carpetsinter.com
Type of business	Manufacturers of Woven, Non-Woven Needle Punched,
	Tufted, Synthetic Grass and Modular-Tile Carpet
	ts: Machine Tufted, Axminster and Carpet Tiles
Certified Products	1. Machine Tufted – Wall-to-Wall
	2. Machine Tufted – PVC Tile
	3. Axminster – Wall-to-Wall
	4. Axminster – PVC Tile
Approval Date	November 2, 2009 and
• • • • • • • • • • • • • • • • • • • •	5. Nylon SDN - Machine Tufted EcoSoft
Approval Date	December 27, 2010
Appioval Dale	

# Interface FLOR® Interface FLOR (Thailand) Co., Ltd.

	:	
Location	700/117 M.1 Amata Nakorn Industrial	
	Estates, Baankao, Panthong,	
	Chonburi 20160, Thailand	2
Telephone	(66 38) 214-303-5 Fax. (66 38) 214-307	
Websites	www.interfaceglobal.com	
	www.Interfaceflor.asia	
Type of Business	Textile – Carpet Tiles	
Registered Products	Carpet Tiles	
Certified Products	1.Carpet tiles with Glasbac® backing	The Part of The
	2. Carpet tiles with Glasbac®RE backing	
Approval Date	June 22, 2011	AND AND
		約57-1Y

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Location	169 Moo 6, Soi Sor.Thaiseree 2, Suksawad Road, Naiklongbang- plakod, Phasamutjadee, Samutprakarn 10290 Thailand	
Telephone	(66 2) 425-0421-5, (66 2) 815-5888	
Website	www.beger.co.th	
Type of Business	The manufacturer of Water Based Paint, Solvent Based Paint,	
	Industrial Paint, Polyurethane, Vanish, Lacquer, Traffic Paint,	
	Thinner and Paint Remover	
Registered Products	Water Based Paints	
Certified Products	1. Beger Shield Total in one 6. BegerCool All Season	
	2. Beger Shield Weather Guard 7. BegerCool Primer	
	3. Beger Shield Primer8. BegerCool SuperGuard	
	4. BegerCool UV Shield 9. BegerCool Roof Paint	
	5. BegerCool SuperCeramic Shield	
Approval Date	December 27, 2010	

Wilsonart (Thailand) Co., Ltd.



Location	75/16 Moo 5, Soi Watsopanaram, Ekkachai Road, Amphur
	Muang, Samutsakorn 74000 Thailand.
Telephone	(66-34) 834-414, (66-34) 834-417-9
Website	www.wilsonart.co.th
Type of Business	HPL (High Pressure Laminate) Manufacturer
Registered Products	HPL (High Pressure Laminate)
Certified Products	HPL (High Pressure Laminate)
Approval Date	June 22, 2011
	•



# MicroFiber Industries Limited

Location	54 Moo 12 Kingkaew Road, F 10540 Thailand	Rachatewa Bangplee Samutprakarn
Telephone	(66 2) 315-5500	
Website	www.microfiber.co.th	
Type of Business	Glass wool insulation manu	ufacturing
Registered Products	MicroFiber insulation board	and blanket type
Certified Products	1. MicroFiber Board Batt Typ	e 9. MicroFiber One Side Facing Type
	2. Micro Ceiling	10. MicroFiber Double Side Facing Type
	3. Micro Duct Liner	11. Micro Roof
	4. Micro Wall	12. Micro Duct Wrap
	5. Micro Hi-Temp	13. MicroFiber No.5
	6. MicroTone Noizestop	14. MicroFiber No.5-Plus
	7. MicroFiber Blanket Type	15. Micro Wall
	8. MicroFiber Encapsulating-	- 16. Micro Hi-Temp
	Туре	17. Micro Tone
Approval Date	March 11, 2011	



# Rubber Products



\$	Thai Nippon Rubber Industry Co., Ltd.
THAI NIPPON RUBBER	
Location	49-49/1 EPZ 1, Laem Chabang Industrial Estate, Thungsukla,
	Sriracha, Chonburi 20230, Thailand
Telephone	(66 38) 490 258-9
Website	www.tnrcondom.com
Type Business	Manufacturer, Distribute Natural Male Latex Condom and
	Lubricant Gel
Registered products.	Natural Male Latex Condom
Certified Product	One Touch 50.5, One Touch Happy, One Mixx 3,
	One Touch Maxx Dot, One Touch Strawberry,
	One Touch Solution, One Touch Sweeteen, One Touch Oil Plus
Approval Date	February 4, 2009



# Ceramics and Pottery Products



115	Imperial Pottery Co., Ltd.
Leela Baralee	
Daratee	
Location	224 Moo 2, Pongyangkok, Hangchart, Lampang 52190 Thailand
Telephone	(66 54) 367-563
Website	www.imperialpottery.com
Type of Business	Ceramic Manufacturer and Vendor
Registered Products	Ceramic Tableware under brand "Leela Baralee"
Certified Products	1. Ceramic Tableware with special decoration, with embossing
	design under brand "Leela Baralee"
	2. Fine Ceramic Tableware under brand "Leela Baralee"
Approval Date	July 15, 2009



# Petrochemical Products





















Location	2, I-3 Road, Map Ta Phut Industrial Estate, Tambol Map-
•••••	Ta Phut, Amphoe Mueang, Rayong 21150 Thailand
Telephone	Head Office (Plant) : (66 38) 925-000
••••••	Bangkok Office : (66 22) 299-100
Website	www.vinythai.co.th
Type of Business	Manufacturing and Sales of PVC Resin and Caustic Soda
Registered Products	Suspension PVC resin, Paste PVC Resin and Caustic Soda
Certified Products	1. Suspension PVC resin : Siamvic
•••••	2. Emulsion PVC Resin : Siamvic
	3. Caustic Soda
Approval Date	July 28, 2010



# IRPC Public Company Limited

Location Telephone	299 Sukhumvet Road, Amphor Muang, Rayong 21000 Thailand (66 38) 611-333
Website	www.irpc.co.th
Type of Business	Petroleum & Petrochemical Industry
Registered Product	High Density Polyethylene (HDPE) & Polypropylene (PP)
Certified Product	1. High density polyethylene (HDPE: K1 process) under brand POLIMAXX
1 064" .300°	2. High density polyethylene (HDPE: K2 process) under brand POLIMAXX
PP POLINA PP PP	<ol> <li>Polypropylene (PP Homo-polymer) under brand POLIMAXX</li> <li>Polypropylene (PP Random-copolymer) under brand</li> </ol>
· H	POLIMAXX
	5. Polypropylene (PP Block-copolymer) under brand
	POLIMAXX
Approval Date	August 17, 2010





#### THAI ABS CO.,LTD. Plastic Product: Expandable Polystyrene (EPS)

: 555/2 Energy complex Building Vibhavadi-Rangsit
Road,Chatuchak, Bangkok 10900 Thailand
(66 2) 649-7000, (66 38) 611-333
www.irpc.co.th
Petro chemical
Plastic Foam resin (Expandable Polystyrene)
Plastic Foam resin (Expandable Polystyrene)
November 10, 2011



#### THAI ABS CO., LTD. Plastic Product: Polystyrene (PS)

Location	IRPC Industrial Park
•••••	299 moo 5, Sukhumvit Road, Cherngnern, Muang, Rayong
	21000, Thailand
Telephone	(66 38) 611-333 Ext.4210-4214, Fax. (66 38) 613-571-80
Website	www.irpc.co.th
Type of Business	Petrochemical Business
	Plastic Product: Polystyrene (PS)
	Type: General Purpose Polystyrene (GPPS)
Registered Products	High Impact Polystyrene (HIPS)
	Plastic Product: Polystyrene (PS)
Certified Products	1) Plastic Polystyrene type High Impact Polystyrene (HIPS)
•••••	2) Plastic Polystyrene type General Purpose Polystyrene (GPPS)
Approval Date	November 10, 2010



PASTE	TPC Paste Resin Co., Ltd.



Location	16, I-1 Road, Map Ta Phut Industrial
	Estate, Map Ta Phut, Muang, Rayong
	21150 Thailand
Telephone	(66 38) 685-209-14
Website	www.tpcpasteresin.co.th
Type of business	Manufacturer of emulsion PVC paste resin in the form of
	white powder
Registered Products	PVC Paste Resin
Certified Products	Emulsion PVC Paste Resin
Approval Date	December 27, 2010



Thai Plastic and Chemicals Public Company Limited



Location	8, I-1 Road, Map Ta Phut Industrial Estate, Tambon Map Ta Phut,
	Amphoe Muang, Rayong 21150 Thailand (66 38) 925-200
Website	www.thaiplastic.co.th
Type of Business	S-PVC Resin and Sodium Hydroxide
Registered Products	S-PVC Resin
Certified Products	S-PVC Resin
Approval Date	March 11, 2011



	Siam Stabilizers and Chemicals Co., Ltd.
Location	5 Pakorn Songkhro Rat Road, Maptaphut , Muang, Rayon
	21150 Thailand
Telephone	(66 38) 683-450-3
Website	www.siamstabilizers.com
Type of Business	Chemical product
Registered Produc	cts: PVC stabilizers
Certified Products	1. Stabilizers STABINEX NC-18
	2. Stabilizers STABINEX OG
	3. Stabilizers STABINEX B
	4. Stabilizers STABINEX Ca/Zn
Approval Date	: April 19, 2011

## Thai MMA Co.,Ltd.

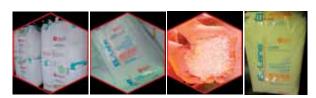


Location	271 Sukhumvit Road, Map Ta Phut, Muang, Rayong 21150
	Thailand
Telephone	(66 38) 685-040-8
Website	www.thaimma.com
Type of Business	Chemicals Products
Registered Products	Methyl methacrylate
Certified Products	Methyl methacrylate
Approval Date	June 22, 2011



### Thai Polyethylene Co.,Ltd.





Location	10 I-1 Rd., Map Ta Phut Industrial Estate, Muang, Rayong 21150
	Thailand
Telephone	(66 38) 683-393
Website	www.chemicals.scg.co.th
Type of Business	Chemicals
Registered Product	: Polyethylene resin
Certified Product	1. Linear low density polyethylene resin (LLDPE)
	2. Medium density polyethylene resin (MDPE)
Approval date	June 22, 2011



## Siam Mitsui PTA Co.,Ltd.



Location	8 Prakornsongkroraj Road, Hemaraj Eastern Industrial Estate
	(Maptaphut) Soi G-2, Muang, Rayong 21150 Thailand (66 38) 685-100
Website	www.chemicals.scg.co.th
Type of Business	Chemicals
Registered Products	Purified Terephthalic Acid under SMPC Brand
Certified Products	Purified Terephthalic Acid under SMPC Brand
Approval Date	August 31, 2011



	hai Polypropylene Co.,Ltd.
TFF	
Location	10 I-1 Rd., Map Ta Phut Industrial Estate, 📊 🔞 🚳
••••••	Muang, Rayong 21150 Thailand
Telephone	(66 38) 683-393
Website	www.chemicals.scg.co.th
Type of Business	Chemicals
Registered Product	s Polypropylene resin (PP)
Certified Product	
••••••	2. Block copolymer polypropylene resin under E
	Brand
	3. Random copolymer polypropylene resin under E
	Brand
	· Brand



## Sanitary Products





Siam Sanitary Ware Industry CO., LTD.



Location	33/4 Moo 2 Suwannasorn Road, Khokyae, Nongkae District,
	Saraburi 18230, Thailand
Telephone	(66 36) 305 111-20
Website	www.cotto.co.th
Type of Business	Ceramic
Registed Products	Vitreous China Sanitary Brand COTTO
Certified Products	1. Two Piece Water-Closet Brand COTTO
	2. Pail Flush & Squat Water-Closet Brand COTTO
	3. Washbasin Brand COTTO
	4. Urinal & Bidet Brand COTTO
Approval Date	April 19, 2011 and
Certified Products	5. Toilet Accessories Brand COTTO
Approval Date	August 31, 2011



## Electrical appliances and Eletronics Products



<b>TOSHIE</b> LIGHTIN	Thai Toshiba Lighting Co.,Ltd.
Location	144 Moo 5 Bangkadi Industrial Park, Tivanon Road, Bangkadi, Muang, Pathumthani 1200 Thailand
Telephone	(66 2) 501-1425
Website	www.toshibalight.com
Type of Business	Manufacturing & Sales of lighting products : Fluorescent lamps Straight type / Circline, Compact Fluorescent lamps, LED lamps, Special lamps, Ballasts and starters
Registered Product	Fluorescent Lamps
Certified Products	<ol> <li>Fluorescent Lamp 18W: Model FL 18W/T8</li> <li>Fluorescent Lamp 36W: Model FL 36W/T8</li> <li>Circline Fluorescent Lamp 32W: Model FCL 32W</li> </ol>
Approval Date	November 10, 2010

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# Iron and Steel Products



Kasemsakdi Trading Co.,Ltd.	
Location	109 Moo. 1 Phetchakasem Road, Tabkang, Kaoyoi, Phetchaburi
	76140 Thailand (66 32) 439-022-25 www.kstisteel.com Billet and Deformed Bar Billet and Deformed Bar Deformed Bar March 11, 2011





คณะกรรมการนักธุรกิจเพื่อสิ่มแวดล้อมไทย Thailand Business Council for Sustainable Development