

APPLIED SCIENTIFIC RESEARCH CORPORATION OF THAILAND

STUDY NO. 6
CHEMICAL INDUSTRY OF THAILAND

REPORT NO. 1
DIRECTORY OF THAI CHEMICALS
(as at September 1969)

BY
ECONOMIC EVALUATION GROUP

REF

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ASRCT, BANGKOK 1969

not for publication

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F O R E W O R D

This Directory sets out lists of chemicals made in Thailand together with the names and addresses of their manufacturers. The lists are in two parts, first a list of chemicals in alphabetical order and, secondly, a list of manufacturers similarly arranged.

For the purposes of the Directory, a "chemical" is defined as an element or compound actually made in Thailand. Man-made mixtures are excluded as are minerals and metals, but some natural mixtures, such as vegetable oils are included because of their importance.

In compiling the Directory, questionnaires were sent to all those who were believed to be making chemicals or who had projects under way which are likely to begin production before the end of 1970. The products of thirty organizations qualified for inclusion and to these were added alcohol (made by the Ayutthaya Alcoholic Spirits Distillery) and parinarium oil (made by Lieng Heng Seng Oil Factory).

ASRCT would be pleased to hear from any other manufacturers who believe their products may qualify for inclusion in subsequent editions of the Directory.

The Directory has primarily been compiled as an aid to ASRCT research, particularly in the chemical field, but since there appears to be no similar compilation in Thailand, a limited number of additional copies has been printed for distribution to those organizations, both here and abroad, which may be interested in the range of chemicals now available from the Thai chemical industry.

LIST OF CHEMICALS MADE, GRADE OR DESCRIPTION AND MANUFACTURERS' NAMES

Chemical	Grade or description	Manufacturer
Acetylene gas	Universal standard	Dhonburi Oxygen Co., Ltd. Far East Oxygen Co., Ltd. M. Thai Industrial Co., Ltd.
Alcohol	Undenatured, 95% Denatured, 90%	Ayutthaya Alcoholic Spirits Distillery, Ministry of Finance
Alkyl benzene sulphonate	Commercial grade	Lever Brothers (Thailand) Ltd.
Aluminium sulphate (alum)	Liquid conc. 50% Solid 100% 17% (Al_2O_3)	Alum Plant, Department of Science, Ministry of Industry Chemical Development Thai Acid Industry Co., Ltd. The Siam Chemicals Co., Ltd. Yongthai Co.
Ammonia	Anhydrous, 99.8%	Chemical Fertilizer Co., Ltd.
Ammonium sulphate	21% N	Chemical Fertilizer Co., Ltd.
Black soya bean oil	Edible	Industrial Enterprises Co., Ltd.
Bleaching liquor (calcium hypo- chlorite)	Cl_2 66%	Thai Asahi Caustic Soda Co., Ltd.
Calcium carbide		M. Thai Industrial Co., Ltd.
Calcium carbonate	98.5% precipitated	The Siam Chemicals Co., Ltd.
Calcium hydroxide	Acetylene by-product	Dhonburi Oxygen Co., Ltd.
	Acetylene by-product	Far East Oxygen & Acetylene Co., Ltd.
	Acetylene by-product	M. Thai Industrial Co., Ltd.
	Acetylene by-product	Thai Plastic and Chemical Co., Ltd.
Calcium hypochlo- rite (bleaching liquor)	Cl_2 6%	Thai Asahi Caustic Soda Co., Ltd.
Calcium oxide		Thai Paper Mills, Department of Industrial Works, Ministry of Industry

Chemical	Grade or description	Manufacturer
Calcium phosphate	Feed grade	Thai Bones Industry Co., Ltd.
Carbon dioxide	Gas: 99.5%	Pure Gas Co., Ltd.
	Liquid: purity 99.8%	Air Chemicals Co., Ltd.
	Solid: density 0.9%	Air Chemicals Co., Ltd.
	Universal standard	Dhonburi Oxygen Co., Ltd.
Castor oil		Lao Tong Seng Co., Ltd.
		Tien Jen Industrial Co., Ltd.
Caustic soda (sodium hydroxide)	Liquid 50% NaOH	Thai Asahi Caustic Soda Co., Ltd.
	Liquid 35%	Thai Chemical Industrial Co., Ltd.
Chlorine	Liquid 99.7%	Thai Asahi Caustic Soda Co., Ltd.
		Thai Paper Mills, Department of Industrial Works, Ministry of Industry
Coconut oil	Edible	Lee Min Co., Ltd.
	Edible	Suthatip Co., Ltd.
	Edible	Tien Jen Industrial Co., Ltd.
Copper sulphate	Local standard	Yongthai Co.
Cotton seed oil		Industrial Enterprises Co., Ltd.
Dicalcium phosphate	Feed grade	Thai Bones Industry Co., Ltd.
Groundnut oil (peanut oil)	Edible	Lao Tong Seng Co., Ltd.
	Edible	Suthatip Co., Ltd.
	Edible	Tien Jen Industrial Co., Ltd.
Hydrochloric acid	35%	Thai Asahi Caustic Soda Co., Ltd.
	Liquid 35%	Thai Chemical Industrial Co., Ltd.
Kapok seed oil	Edible	Industrial Enterprises Co., Ltd.
		Lao Tong Seng Co., Ltd.
		Suthatip Co., Ltd.
Lead oxides	Litharge, battery grade	Battery Organization, Ministry of Defence
	Red-lead, Pb_3O_4 85% up	

Chemical	Grade or description	Manufacturer
Litharge	Battery grade	Battery Organization, Ministry of Defence
Monosodium glutamate (MSG)	Purity more than 99%	Ajinomoto Co. (Thailand) Ltd. Thai Chemical Industrial Co., Ltd.
Nitrous oxide	99%	The Siam Chemicals Co., Ltd.
Nitrogen	Approved by Department of Science Top quality	Dhonburi Oxygen Co., Ltd. Far East Oxygen & Acetylene Co., Ltd.
Oleum. # See sulphuric acid		
Parinarium oil		Lieng Heng Seng Oil Factory
Peanut oil (groundnut oil)	Edible	Lao Tong Seng Co., Ltd. Suthatip Co., Ltd. Tien Jen Industrial Co., Ltd.
Polyvinyl acetate	Dispersions Emulsion homo-polymer and co-polymer	Hoechst Chemical Industries Ltd. Union Carbide Thailand Ltd.
Polyvinyl chloride	Suspension grade K-value 58-80 and compounds	Thai Plastic and Chemical Co., Ltd.
Potassium carbonate		Chemical Development
Red lead	Pb_3O_4 85% up	Battery Organization, Ministry of Defence
Rice bran oil	Edible Edible Edible Edible	General Industrial Co., Ltd. Industrial Enterprises Co., Ltd. Thai Development Rice Bran Oil Industry Co., Ltd. Tien Jen Industrial Co., Ltd.
Sodium hydroxide	Liquid 50% NaOH	Thai Asahi Caustic Soda Co., Ltd.
Sodium hypochlorite	Cl_2 10%	Thai Asahi Caustic Soda Co., Ltd.

Chemical	Grade or description	Manufacturer
Sodium tridecylbenzene sulphate	Detergent grade	Colgate-Palmolive (Thailand) Ltd.
Soya bean oil	Edible	Industrial Enterprises Co., Ltd.
	Edible	Lao Tong Seng Co., Ltd.
	Edible	Tien Jen Industrial Co., Ltd.
Sulphuric acid	Conc. 98%; S.G.1.8437	Bangkok Chemical Industrial Co., Ltd.
	Conc. 106.75%; S.G. 1.936 i.e. oleum, 30% free SO ₃	
	98%	Chemical Fertilizer Co., Ltd.
	98% Oleum, 20% and 30% free SO ₃	The Siam Chemicals Co., Ltd.
Urea	46%	Chemical Fertilizer Co., Ltd.
Zinc chloride	(1) Bé 50	Pak Nam Chemical Ltd. Partnership
	(2) Bé 55	
	(3) Bé 65	
	(4) Grade according to customers' requirement	

LIST OF MANUFACTURERS' NAMES, FULL ADDRESS, AND PRODUCTS MADE

Manufacturers' name	Address	Products made
Air Chemicals Co., Ltd.	163 Phetchaburi Rd. Extension Bangkok	Carbon dioxide (liquid and solid)
Ajinomoto Co. (Thailand) Ltd.	31-33 Yukhon 1 Rd. Suan Mali, Bangkok <u>Factory:</u> 6 Village 2 Bang Khru, Phra Pradaeng Samut Prakan	Monosodium glutamate
Alum Plant, Department of Science, Ministry of Industry	Department of Science Ministry of Industry Phra Ram VI Rd. Bangkok <u>Factory:</u> Same as above	Aluminium sul- phate
Ayutthaya Alcoholic Spirits Distillery, Ministry of Finance	Hua Laem Phra Nakhon Si Ayutthaya	Alcohol
Bangkok Chemical Indus- trial Co., Ltd.	24 Phra Ram I Rd. Rong Muang, Pathum Wan Bangkok <u>Factory:</u> Km 38.8 Sukhum Wit Rd. Bang Bo Samut Prakan	Oleum Sulphuric acid
Battery Organization, Ministry of Defence	125/2 Sukhum Wit Rd. Bang Na, Phra Khanong Bangkok <u>Factory:</u> Mae Mo, Amphoe Muang Lampang	Litharge Red lead
Chemical Development	304 Saraphi 3 Lane Lat Ya Rd. Thon Buri <u>Factory:</u> 48/7 Village 3 Sukhaphiban 1 Lane Bang Khae Thon Buri	Aluminium sul- phate Potassium car- bonate

Manufacturers' name	Address	Products made
Colgate-Palmolive (Thailand) Ltd.	4/16 Na Ranong Rd. Khlung Toei Bangkok <u>Factory:</u> Same address	Sodium tridecylbenzene sulphonate
Dhonburi Oxygen Co., Ltd.	12 Phet Kasem Rd. Bang Wa Thon Buri <u>Factory:</u> Same address	Acetylene Calcium hydroxide Carbon dioxide Nitrogen Nitrous oxide Oxygen
Far East Oxygen & Acetylene Co., Ltd.	982 Soi 71, Sukhum Wit Rd. Bangkok <u>Factory:</u> Same address	Acetylene Calcium hydroxide Oxygen
General Industries Co., Ltd. (Nana Industry Co., Ltd.)	5 Ratchawong Rd. 2nd floor Bangkok <u>Factory:</u> Tambon Ban Mai Near Wat Salak Nua Pak Kret Nonthaburi	Kapok seed oil Rice bran oil Soya bean oil
Hoechst Chemical Industries Ltd.	302 Si Lom Rd. Bangkok <u>Factory:</u> 138 Suk Sawat Rd. Thon Buri	Polyvinyl acetate (PVA dispersions)
Industrial Enterprises Co., Ltd.	171 Surawong Rd. Bangkok <u>Factory:</u> Nonthaburi Bridge Tiwanon Rd. Nonthaburi	Black soya bean oil Cotton seed oil Kapok seed oil Rice bran oil Soya bean oil

Manufacturers' name	Address	Products made
Lao Tong Seng Factory	2409 Chan Rd. Yan Nawa Bangkok <u>Factory:</u> Same address	Castor oil Groundnut oil Soya bean oil
Lee Min Co., Ltd.	1100 Phra Ram IV Rd. Khlong Toei Bangkok <u>Factory:</u> Same address	Coconut oil
Lever Brothers (Thailand) Ltd.	1037 Phloen Chit Rd. Bangkok <u>Factory:</u> 1 Tok Rd. Bang Kho Laem, Yan Nawa Bangkok	Alkyl benzene sulphonate
Lieng Heng Sen Oil Factory	Chan Rd. Yan Nawa Bangkok <u>Factory:</u> Same address	Parinarium oil
M. Thai Industrial Co., Ltd.	147-9 Sua Pa Rd. 3rd floor, United Malayan Bank Building Bangkok	Acetylene gas Calcium carbide Calcium hydroxide
Paknam Chemical Ltd. Partnership	150 Sukhum Wit Rd. Bang Duan, Amphoe Muang Samut Prakan <u>Factory:</u> Same address	Zinc oxide
Pure Gas Cas Co., Ltd. (Universal Carbonics Co., Ltd.)	9/1 Phibun Songkhram Rd. Bang Su, Dusit Bangkok <u>Factory:</u> Same address	Carbon dioxide

Manufacturers' name	Address	Products made
Suthatip Co., Ltd.	1372-4 Song Wat Rd. Bangkok <u>Factory:</u> 56 Mu 8, Bang Chak Samut Prakan	Black soya bean oil Coconut oil Cotton seed oil Groundnut oil Kapok seed oil Sesame oil Soya bean oil
Thai Acid Industry Co., Ltd.	417-9 Phra Ram IV Rd. Rong Muang, Pathum Wan Bangkok <u>Factory:</u> 190 Mu 3 Sukhum Wit Rd. Thai Ban, Amphoe Muang Samut Prakan	Aluminium sulphate
Thai Asahi Caustic Soda Co., Ltd.	199/1-2 Phaya Thai Rd. Pathum Wan Circle Bangkok <u>Factory:</u> 202 Suk Sawat Rd. Samut Prakan	Calcium hypochlorite Hydrochloric acid Liquid chlorine Sodium hydroxide Sodium hypochlorite
Thai Bones Industry Co., Ltd.	636 Anuwong Rd. Bangkok <u>Factory:</u> Khlong Nung, Khlong Luang Pathum Thani	Dicalcium phosphate
Thai Chemical Industrial Co., Ltd.	China Bank Building 5th floor, Sua Pa Rd. Bangkok <u>Factory:</u> Km 13 Suk Sawat Rd. Phra Pradaeng Samut Prakan	Hydrochloric acid Monosodium glutamate Sodium hydroxide

Manufacturers' name	Address	Products made
Thai Development Rice Bran Oil Industry Co., Ltd.	186-8 Song Wat Rd. Samphanthawong Bangkok <u>Factory:</u> 28 Mu 1 Bang Yao Phetchahung Rd. Thon Buri	Rice bran oil
Thai Paper Mills Department of Industrial Works, Ministry of Industry	2 Nakhon Chaisi Rd. Samsen Bangkok <u>Factory:</u> Amphoe Muang Kanchanaburi	Liquid chlorine Calcium oxide
Thai Plastic and Chemical Co., Ltd.	37/2 Phat Phong Rd. Si Lon Bangkok <u>Factory:</u> Mu 9, Bang Ya Phraek Phra Pradaeng Samut Prakan	Polyvinyl chloride Calcium hydroxide
The Siam Chemicals Co., Ltd.	14 Soi Yukhon 1 Bamrung Muang Rd. Bangkok <u>Factory:</u> 196 Suk Sawat Rd. T. Pak Khlong Bang Makrut Amphoe Muang Samut Prakan	Aluminium sulphate Nitrous oxide Oleum Precipitated calcium carbonate Sulphuric acid
Tien Jen Industrial Co., Ltd.	17-9 Soi 7 Sukhum Wit Rd. Bangkok <u>Factory:</u> 27 Mu 14 Samrong Tai Phra Pradaeng Samut Prakan	Castor oil Coconut oil Peanut oil Rice bran oil Soya bean oil

Manufacturers' name	Address	Products made
Union Carbide Thailand Ltd.	Bangkok Bank Building 300 Si Lom Road Bangkok <u>Factory:</u> 1 Nonthaburi Rd. Bang Kraso Nonthaburi	Polyvinyl acetate emulsions Co-polymer & homopolymer
Yong Thai Co.	163 Mu 8 Bang Khen Nonthaburi <u>Factory:</u> Same address	Aluminium sulphate Copper sulphate

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