



# PRODUCT BACKGROUNDER

---

## THE OPTIMAL GROUP OF COMPANIES

With a production capacity of approximately 1.5 million metric tonnes per annum, The OPTIMAL Group of Companies manufactures over 15 different petrochemical product families and over 75 products from basic feedstock of Ethylene and Propylene to intermediates like Ethylene Oxide, Ethylene Glycol, Butanol and various Ethylene Oxide derivatives, as well as basic and high performance chemicals.

OPTIMAL products are generally used as intermediate building blocks in the manufacture of various industrial and consumer products such as personal care, cosmetics, household cleaners, paints, coatings and adhesive.

These products are supplied to its customers in Malaysia and around the Asia Pacific region as well as to other petrochemical plants located within the Kertih integrated petrochemical complex.

More...

Breakdown of petrochemical products manufactured by The OPTIMAL Group of Companies through its three subsidiaries:

<b>PRODUCTS &amp; PRODUCTION CAPACITY</b>	
<b>OPTIMAL OLEFINS (MALAYSIA) SDN. BHD.</b>	
<b>Products:</b>	<b>KTa</b>
Ethylene	600
Propylene	95
Pyrolysis Gasoline	35
<b>PRODUCTS &amp; PRODUCTION CAPACITY</b>	
<b>OPTIMAL GLYCOLS (MALAYSIA) SDN. BHD.</b>	
<b>Products:</b>	<b>KTa</b>
Mono-Ethylene Glycol	365
Di-Ethylene Glycol	20
Re-Distilled Ethylene Oxide	140
<b>OPTIMAL CHEMICALS (MALAYSIA) SDN. BHD.</b>	
<b>Products:</b>	<b>KTa</b>
<b>A. Performance Chemicals:</b>	
Ethanolamines	75
Nonyl Phenol Ethoxylates (TERGITOL™ surfactants)	25
Octyl Phenol Ethoxylates (TRITON™ surfactants)	5
Polyethylene Glycol (CARBOWAX™ polyethylene glycols)	15
Polyalkylene Glycol (UCON™ Fluids)	10
Gas Treating Fluids (UCARSOL™ Solvents)	10
<b>B. Chemicals</b>	
Butanol / Isobutanol	140
Butyl Glycol Ethers (CELLOSOLVE™ & CARBITOL™ butyl glycol ethers)	60
Butyl Acetate	50
Butyl Acrylate	35
2 Ethyl Hexyl Acrylate	20
Brake Fluids DOT-3 (UCON™ E-360 brake fluids DOT-3)	3

\*NOTE: kTa: Kilo Metric Tonne Per Annum (1000 MTY)