



PETRONAS



**Ethonas  
EB, DB & B260  
Butyl Glycol  
Ethers**

# Overview of PETRONAS Chemicals Group Berhad

PETRONAS Chemicals Group Berhad (PCG) is the leading integrated chemicals producer in Malaysia and one of the largest in Southeast Asia. It operates **19 world-class manufacturing sites** in Malaysia, Asia-Pacific, Europe and North America. With a total combined production capacity of **15.4 million metric tons per annum (mtpa)**, it is involved primarily in **manufacturing, marketing and selling a diversified range of chemical products**, including olefins, polymers, fertilisers, methanol, other basic chemicals, derivative products and specialty chemicals.

Listed on Bursa Malaysia with more than three decades of experience in the chemicals industry, PCG is established as part of the PETRONAS Group to maximise value from Malaysia's natural gas resources.

PCG is committed to ensuring that its business practices are in line with globally recognised standards for Economic, Environment, Social & Governance (EESG) practices. It is currently listed in the FTSE4Good Bursa Malaysia (F4GBM) Index and the Dow Jones Sustainability™ World Index.

## PETRONAS Chemicals Derivatives Sdn. Bhd. (PC DSB)

Produces Butyl Glycol Ether in Kertih, Terengganu.



16 030-05/2013



ISO 9001:2015



ISO 14001:2015  
ISO 45001:2018

# Ethonas EB, DB & B260

## Butyl Glycol Ethers

Colourless, mild-smelling liquids. Widely used in various applications due to their excellent solvency characteristics.

PCG offers three main grades of glycol ethers; Ethonas EB, Ethonas DB and Ethonas B260.

### Characteristics and Benefits

Ethonas EB, DB and B260 solvents (Butyl Glycol Ethers) are one of the most versatile classes of organic solvents, combining ether, alcohol and hydrocarbon chains in one molecule. This provides versatile solvency characteristics with both polar and non-polar properties.

#### Evaporation Rate

Various evaporation rate to cater to various product applications

#### Degreasing Power

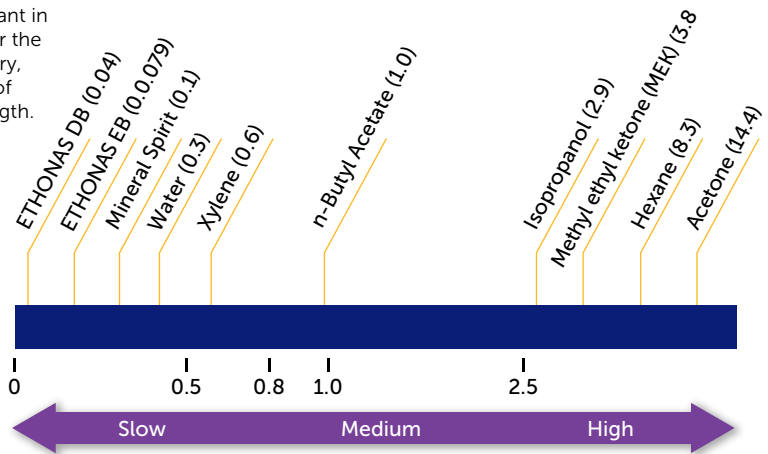
Excellent degreasing power in removing grease and oily waxes

#### Surfactant-Like Structure







Provides the compatibility between water and a number of organic solvents with excellent coupling properties

### Evaporation Rate Chart

Evaporation rate is important in the selection of solvent for the paints and coatings industry, as it determines the ease of application and coat strength.



# Applications

Industry	Application	Function	Recommended Ethonas grade		
			EB	DB	B260
 <b>Automotive fluids</b>	Brake fluid	Base fluid			√
	Brake fluid	Viscosity modifier	√	√	
 <b>Paints &amp; coatings</b>	Surface coatings	Solvent	√	√	
 <b>Ink</b>	Solvent-based ink	Solvent	√	√	√
	Water-based ink	Coupling solvent for resin & dyes		√	
 <b>Home care</b>	All purpose cleaner	Solvent	√	√	
	Floor polish stripper	Co-solvent		√	
	Glass cleaner	Solvent	√		
	Rust remover	Solvent		√	
 <b>Industrial and institutional cleaner</b>	Automotive spray wax	Solvent/Cleaning agent	√	√	
	Engine degreaser	Cleaning agent	√	√	
 <b>Agriculture</b>	Pesticides	Inert ingredient	√	√	

# Product Properties

Components	Unit	Ethonas EB	Ethonas DB	Ethonas B260
EB (Ethylene glycol monobutyl ether)	wt%	99.0 min	-	0.2 max
DB (Diethylene glycol monobutyl ether)	wt%	-	99.0 min	5.0 max
Butoxytriglycol	wt%	-	-	78.0 max
Diethylene Glycol	wt%	-	-	3.0 max
Triethylene Glycol	wt%	-	-	2.0 max
Tetraethylene Glycol	wt%	-	-	1.0 max
Acidity	wt%	0.010 max	0.010 max	0.010 max
Water	wt%	0.10 max	0.10 max	0.10 max
Colour	PtCo	10 max	10 max	100 max
Residue	wt%	-	-	12 max
Boiling point	°C	170	230	280
Evaporation rate (nBuAc = 1)	-	0.08	<0.01	<0.01



For more information on PCG products



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