

Estimated production and capacity for methylamine and derivative producers

EEA methylamine capacity and production

1. The parties' estimates of actual production and potential productive capacity for methylamines in 2003 for EEA producers is shown in Table 1. The table also shows that production for internal use to manufacture derivatives is over twice the level of sales to third parties.

TABLE 1 EEA methylamine capacity and production, 2003

	Capacity		Actual production		Destination of production	
	Capacity (kt)	Share of capacity (%)	Actual production (kt)	Share of actual production (%)	Internal use (kt)	Sales to third parties (kt)
Taminco						
Air Products						
BASF						
Akzo						
Ertisa						
Total						

Source: The producers and (for other producers where no data is available) Taminco estimates.

World derivative capacity and production

2. Tables 2 to 5 show estimates of worldwide capacity and sales (estimates of worldwide production rather than sales were given for DMF), as well as EEA merchant sales¹ for all producers.

TABLE 2 Worldwide capacity and production and EEA merchant sales of DMF, 2003

	Worldwide capacity (kt)	Worldwide production (kt)	EEA sales (kt)	Share of EEA sales (%)
Taminco				
Air Products				
BASF				
Akzo				
AK KIM				
Celanese				
Dupont				
Chinook				
Samsung (Korea)				
Mitsubishi Gas (Japan)				
Mitsubishi Rayon (Japan)				
FCFC (Taiwan)				
Russian producers				
Chinese producers				
Total				

Source: The producers and (for other producers where no data is available) Taminco estimates.

¹Merchant sales mean that production for internal use is excluded. Internal use accounts for a significant proportion of production only in the case of methylamines.

TABLE 3 AAA production capacities and shares of AAA sales 2003

	Worldwide production capacity (kt)	Worldwide sales (kt)	EEA sales (kt)	Share of EEA sales (%)
Taminco	()	✂	()	()
Air Products				
BASF				
Dow				
Ineos				
Huntsman				
Atofina				
Amines & Plasticizers				
Nippon Nyukasai				
Mitsubishi Gas				
Total				

Source: The producers and (for other producers where no data is available) Taminco estimates.

TABLE 4 Worldwide and EEA sales for individual AAAs 2003

	MMEA		MDEA		DMAE	
	Worldwide sales (kt)	EEA sales (kt)	Worldwide sales (kt)	EEA sales (kt)	Sales (kt)	EEA sales (kt)
Taminco	()	()	()	()	()	()
Air Products						
BASF						
Dow/Carbide						
Ineos						
Huntsman						
Atofina						
Amines & Plasticizers						
Nippon Nyukasai						
Mitsubishi Gas						
Total						

Source: The producers and (for other producers where no data is available) Taminco estimates.

TABLE 5 Worldwide shares of choline chloride production capacity and choline chloride sales (as 100 per cent choline chloride) 2003

	Production capacity (kt)	Worldwide sales (kt)	EEA choline chloride sales (kt)
Taminco (EU+China)	()	()	()
Air Products			
Akzo (EU +China)			
BASF (EU + Thail + Mexico)			
Kolin (Korea)			
Samsung (Korea)			
Bioproducts (USA)			
Chinook (Canada + USA)			
BCP (Balchem) (USA) ²			
MGC + Yok Gosei (Japan) ³			
Local China Producers (PR China)			
Jubilant Organosys (India) ⁴			
Balaji Amines (India)			
Celanese + Niasa (Mexico)			
Total			

Source: The producers and (for other producers where no data is available) Taminco estimates.

²Belongs to Balchem group.

³Mitsubishi Gas Chemicals (MGC).

⁴Formerly Anichem.