Green AmiÑes	

Green Amines' Polyurethane Catalysts & Specialty Amines

	Product Characteristics and Applications																						
Products	Comparab	le Products					1	Produ	ct Chara			\ppli	icatio	ons									
Green Amines	Evonik	Huntsman		Characteristics				Fl	exible F	oams	Flexil Rigid	Rigid Foams					CASE						
			Foaming	Balancing	Gelling	MDI	TDI	TDI/MDI	Flexible Slabstock Foam	Microcellular/Integral Skin Molded Foam	Flexible and Semi-flexible Molded Foam	Spray	Energy Absorbing (NVH/Impact)	Bunstock	High Density Molded	Pour-in-place/PUR Laminatior	Appliance	PIR Boardstock	Coatings	Adhesives	Sealants	Elastomers	Shoe Soles
GAC [®] -15	POLYCAT® 15	JEFFCAT® Z-130		•		•		•	•	•	•	•	•		•	•							1
N N		CAS: 6711-48-4	Non-emissive, isocyanate-reactive, balanced urethane/urea reaction catalyst. It promotes the surface cure/reduces skinning property and improves surface appearance.													e/							
GAC®-77	POLYCAT® 77	JEFFCAT® ZR-40			•	•		•	•	•	•	•	•		•		•						
	N N	CAS: 3855-32-1	Balanced gelation and blowing catalyst that can promote open cells in some applications. It is used in all-water-blown TDI or TDI/MDI high resilience (HR) foam and in TDI/MDI- or MDI-based, cold-cure molded polyurethane cushioning foam systems.																				
GAC®-41	POLYCAT® 41	JEFFCAT® TR-90			•	•	•	•							•	•	•	•					
		CAS: 15875-13-5		lowi	n rigi	d sys	stem	ıs. Re		-	t with ex d for use		_		-			-			e in	wate	r
GAC ^{®'} -T	DABCO® T	JEFFCAT® Z-110			•	•	•	•	•	•	•	•	•										
но	N	CAS: 2212-32-0	grou	ıp, it	reac	lily re	eacts	s into	the		ective to r matrix. iired.		-	•							•	•	
GAC®-DMAEE	POLYCAT® 37	JEFFCAT® ZR-70	•			•		•		•	•	•				•			•	•	•		
\sqrt{N}	ОН	CAS: 1704-62-7								•	application of flexible		_	low o	densi	ty, w	ater	blow	vn, o	pen	cell s	pray	
GAC®-50		JEFFCAT® ZR-50		•		•	•	•	•	•	•	•	•			•							
HO N		CAS: 67151-63-7		Low emission catalyst with balance and versatility. Applications include ester based slabstock flexible foam													base	ım,					

Products	Comparak	ole Products								Product Characteristics and Applications															
Green Amines	Evonik	Huntsman	Characteristics						Flexible Foams Flexible & Rigid Foams						Rigid Foams					CASE					
GAC®-DPA	DABCO® NE1050	JEFFCAT® DPA	Foaming	Balancing	• Gelling	MDI	IDI	TDI/MDI	Flexible Slabstock Foam	Microcellular/Integral Skin Molded Foam	 Flexible and Semi-flexible Molded Foam 	Spray	Energy Absorbing (NVH/Impact)	Bunstock	High Density Molded	 Pour-in-place/PUR Lamination 	Appliance	PIR Boardstock	Coatings	Adhesives	Sealants	Elastomers	Shoe Soles		
OH OH		CAS: 63469-23-8	Low emission catalyst with good gellation and flowability. Used in ether based slabstock flexib											exible	e foa	m, H	R								
GAC [®] -DMDEE	DABCO® DMDEE	JEFFCAT® DMDEE	•			•		•	•			•							•	•	•				
	√N O	CAS: 6425-39-4	1 -						mine blowing catalyst particularly suitable for one- and two-component rigid fowell as flexible slabstock foams. It provides system stability in moisture-cured ms (CASE).										am						
GAC [®] -A33	DABCO [®] 33-LV	JEFFCAT® TD-33A			•	•	•	•	•	•	•		•		•	•			•	•	•	•			
		CAS: 280-57-9										multipu sed in a								ine a	and 6	57%			
GAC [®] TMR-2	DABCO [®] TMR-2				•								•	•			•	•							
0 N+	J.	CAS: 62314-25-4		_				•				on cataly notes th	•									prof	le		
GAC [®] -DMAPA		JEFFCAT® DMAPA			•	•		•	•	•	•	•	•		•	•									
N NH	2	CAS: 109-55-7						-		fect. App ostock fl		ns includ oam.	e rigid p	acka	ging	foar	n, m	icroc	ellul	ar m	ateri	als,			
GAC®-N4 Amine	Ancamine [®] 2655																								
NH NH ₂		CAS: 10563-26-5	N4 Amine is a tetramine, mea							_					_	•) wit	ithin its molecule. This						
Custom manufac	turing as requeste	d																					\Box		

Products	ts Comparable Products									Produ	ct Chara	acteristic	s and A	pplic	catio	ns							
Green Amines	Evonik	Huntsman	Characteristics					nracteristics			oams	Flexik Rigid F			Rigi	d Foa	ıms				CASE		
			Foaming	Balancing	Gelling	IDM	ТЫ	TDI/MDI	Flexible Slabstock Foam	Microcellular/Integral Skin Molded Foam	Flexible and Semi-flexible Molded Foam	Spray	Energy Absorbing (NVH/Impact)	Bunstock	High Density Molded	Pour-in-place/PUR Laminatior	Appliance	PIR Boardstock	Coatings	Adhesives	Sealants	Elastomers	Shoe Soles

Green Amines: www.greenamines.com/en

 $Polyure than e\ catalysts:\ www.greenamines.com/en/index.php?m=content\&c=index\&a=lists\&catid=29$

 $Specialty\ amines:\ www.greenamines.com/en/index.php?m=content\&c=index\&a=lists\&catid=27$

Contact: Francis Su, Foreign Trade Manager

Mobile/WeChat: +86 13917364302

E-Mail: sf@greenamines.com