Green AmiÑes	
/	

Green Amines' Polyurethane Catalysts & Specialty Amines

Products	Comparab	le Products	Product Characteristics and Application									ons											
Green Amines	Evonik	Huntsman	Characteristics					Fl	lexible Fo	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		•	<u> </u>	•			•	•	•	• •	•	<u>.</u>	•	•					Ļ		
		CAS: 6711-48-4	Non-emissive, isocyanate-reactive, balanced urethane/urea reaction catalyst. It promotes the surfareduces skinning property and improves surface appearance.											urtac	e cui	e/							
GAC®-77	POLYCAT® 77	JEFFCAT® ZR-40			•	•		•	•	•	•	•	•		•		•						
		CAS: 3855-32-1	wate	er-bl	own	TDI	or TI	OI/MI	DI hi	catalyst gh resilie systems.	ence (HF	•	-										
GAC [®] -41	POLYCAT® 41	JEFFCAT® TR-90			•	•	•	•							•	•	•	•					
	Ĩ	CAS: 15875-13-5	co-b	low	n rigi	id sy	stem		com	catalyst mended				•	•						e in	wate	٢
GAC [®] -T	DABCO® T	JEFFCAT® Z-110			•	•	•	•	•	•	•	•	•										
HONN		CAS: 2212-32-0	grοι	ıp, it	read	dily r	eacts	s into	the	nore sele polymer e is requi	matrix.		-	-							•	•	
GAC®-DMAEE	POLYCAT® 37	JEFFCAT® ZR-70	•			•		•		•	•	•				•			•	•	•	•	
	ОН	CAS: 1704-62-7	Non-emissive amine used in a range of applications, including low density, water blown, open cell spra polyurethane foam (SPF) and a variety of flexible foams.											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													m,							

Products	Comparab	le Products							Product Characteristics and Applications														
Green Amines	Evonik	Huntsman	Characteristics						Flo	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 Lamination	Appliance	PIR Boardstock	Coatings	Adhesives	Sealants	Elastomers	Shoe Soles
GAC®-DPA	DABCO® NE1050	JEFFCAT [®] DPA			•				•	•	•	•	•			•							
OH OH N	_	CAS: 63469-23-8	Low emission catalyst with good gellation and flowability. Used in ether based slabstock flexible molded flexible foam, microcellulars, elastomers, RIM & RRIM and rigid packaging foam.											exible	e foa	m, H	IR						
GAC [®] -DMDEE	DABCO® DMDEE	JEFFCAT [®] DMDEE	•			•		•	•			•							•	•	•		
	N	CAS: 6425-39-4	Isocyanate stable, amine blowing catalyst particularly suitable for one- and two-component rigid foam sealant systems as well as flexible slabstock foams. It provides system stability in moisture-cured polyurethane systems (CASE).																				
GAC [®] -TEDA	DABCO® Crystallin	e			•	•	•	•	•	•	•	•			•				•	•	•	•	•
		CAS: 280-57-9	type	s of _l	nylene Diamine crystals. Strong urethane reaction (gelation) ca s of polyurethane foams including flexible slabstock, flexible momeric. Other TEDA formulated products can be made accord								e mo	molded, rigid, semi-f					le ar	nd	l in a	ıII	
GAC [®] -A33	DABCO [®] 33-LV	JEFFCAT [®] TD-33A			•	•	•	•	•	•	•		•		•	•			•	•	•	•	
		CAS: 280-57-9		_					_	-	alyst for ty. It is u	•	•				•			ine a	and 6	57%	
GAC [®] TMR-2	DABCO [®] TMR-2				•								•	•			•	•					
O- N+ OH		CAS: 62314-25-4									merizations. It pror											prof	ile
GAC [®] -DMAPA		JEFFCAT [®] DMAPA			•	•		•	•	•	•	•	•		•	•							
NH ₂		CAS: 109-55-7						•		•	plication lexible f		e rigid p	acka	ging	foar	n, m	icroc	ellula	ar m	ateria	als,	
GAC [®] -N4 Amine	Ancamine [®] 2655																						
NH NH ₂		CAS: 10563-26-5								_	ntains fo				_) wit	hin it	s m	olecu	le. T	his

Geen Amines Evouik Huntsman Characteristics Elexiple Slabstock Foam Molded Foa	Products Comparable Products				Product Characteristics and Applications																			
Foaming Balancing Gelling MDI TDI/MDI Flexible Slabstock Foam Microcellular/Integral Ski Molded Foam Molded Foam Molded Foam Molded Foam High Density Molded Pour-in-place/PUR Lamin Appliance PIR Boardstock Coatings Adhesives Sealants Elastomers Shoe Soles	Green Amines	Evonik	Huntsman		Characteristics				Flexible Foams				Rigid Foams					CASE						
	Custom manufact	turing as requested	d	Foaming	Balancing	Gelling	MDI	TDI	TDI/MDI	Slabstock Fo	lular/Integral Foam	and Semi-flexibl Foam	Spray	Abs mpa	Bunstock		ce/PUR Lamin	Appliance	PIR Boardstock	Coatings	Adhesives	Sealants	Elastomers	Shoe Soles

Green Amines: www.greenamines.com/en

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

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