
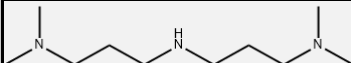
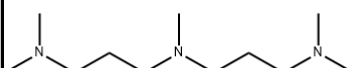
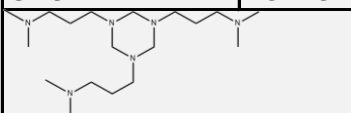
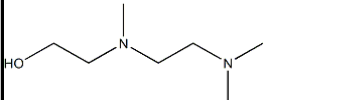
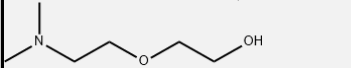
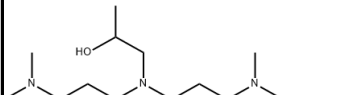



Green Amines' Polyurethane Catalysts & Specialty Amines

Products	Comparable Products		Product Characteristics and Applications																				
Green Amines	Evonik	Huntsman	Characteristics						Flexible Foams			Flexible & Rigid Foams		Rigid Foams				CASE					
																							
GAC® -15	POLYCAT® 15	JEFFCAT® Z-130		•		•		•	•	•	•	•	•		•	•							
		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.																				
GAC® -77	POLYCAT® 77	JEFFCAT® ZR-40			•	•		•	•	•	•	•	•		•		•						
		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	Moderately active trimerization catalyst with excellent blowing capability. Excellent performance in water co-blown rigid systems. Recommended for use as a co-catalyst with other polyurethane and polyisocyanurate catalysts.																				
GAC® -T	DABCO® T	JEFFCAT® Z-110			•	•	•	•	•	•	•	•	•										
		CAS: 2212-32-0	Non-emissive amine which is more selective to the urea (blowing) reaction. Due to its reactive hydroxyl group, it readily reacts into the polymer matrix. It can be used in flexible and rigid polyurethane systems where a smooth blowing profile is required.																				
GAC® -DMAEE	POLYCAT® 37	JEFFCAT® ZR-70	•			•		•		•	•	•				•			•	•	•	•	
		CAS: 1704-62-7	Non-emissive amine used in a range of applications, including low density, water blown, open cell spray polyurethane foam (SPF) and a variety of flexible foams.																				
GAC® -50		JEFFCAT® ZR-50		•		•	•	•	•	•	•	•	•			•							
		CAS: 67151-63-7	Low emission catalyst with balance and versatility. Applications include ester based slabstock flexible foam, microcellulars, elastomers, RIM & RRIM and rigid packaging foam.																				

Products	Comparable Products		Product Characteristics and Applications																				
Green Amines	Evonik	Huntsman	Characteristics					Flexible Foams			Flexible & Rigid Foams		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
	Custom manufacturing as requested																						

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

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