



**INDO
AMINES
AMERICAS LLC**



POLYURETHANE REACTIVE ADDITIVES & CATALYSTS

Accelerator | Chain-extenders | Catalyst

Polyurethane Reactive Additives & Catalysts

Products	CAS.NO	BRAND NAME	CROSS REFERENCE	APPEARANCE	MOISTURE CONTENT, (BY KF)	PURITY, (BY GC)	APPLICATION
1, 3-Bis(2-hydroxyethoxy) benzene (HER)	102-40-9	IAL HER	HER	White crystal powder	0.1 % Max	99.0 % Min	Chain extender
Hydroquinone Bis-(2-hydroxyethyl) ether (HQEE)	104-38-1	IAL HQEE	HQQE	Grayish white powder	0.1 % Max	99.0 % Min	Chain extender for TDI / MDI
Tetra-methyldipropyl-triamine (Bis-DAPA)	6711-48-4	IAL EPA 04	POLYCAT 15/Z130	Colorless to light yellow liquid	1.0 % Max	97.0 % Min	Polyurethane Catalyst/Accelerator
N, N-Dimethyl benzylamine (BDMA)	103-83-3	IAL EPA 03	BDMA	Colorless to pale yellow liquid	0.5 % Max	99.0 % Min	Polyurethane Accelerator
N,N-Dimethylcyclohexylamine (DMCA)	98-94-2	IAL EPA 01	POLYCAT 8	Colorless to yellow liquid	0.5% Max	99.0% Min	Polyurethane Accelerator
N-Butyl dimethylamine (DMBA)	927-62-8	IAL EPA 02	DMBA	Clear colorless liquid	0.5% Max	99.0% Min	Polyurethane Accelerator
N-N-Dimethyldipropylene triamine (DMDPTA)	10563-29-8	IAL DMDPTA	-	Clear colorless liquid	0.5 % Max	99.0 % Min	Catalyst for Polyurethane
Di-(Butyl amino) propylamine (DBAPA)	102-83-0	IAL DBAPA	-	Clear colorless liquid	0.5 % Max	98.0 % Min	Polyurethane Accelerator
N-Methyl Morpholine (NMM)	109-02-4	IAL EPA 05	NMM	Clear colorless liquid	0.5 % Max	99.0 % Min	Polyurethane Catalyst/Accelerator
N Ethyl Morpholine (NEM)	100-74-3	IAL EPA 08	NEM	Colorless to pale yellow clear liquid	0.5% Max	99.0% Min	Polyurethane Catalyst/Accelerator
Dimorpholino Diethyl Ether (DMDEE)	6425-39-4	IAL EPA 07	DMDEE	Yellow to amber liquid	0.5 % Max	99.0 % Min	Polyurethane Accelerator
Phenyl imidazole (<i>Developmental Product</i>)	670-96-2	IAL EPA 09	-	White to off-white powder	1.0 % Max	98.0 % Min	Polyurethane Catalyst/Accelerator

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EPOXY CROSSLINKING AGENTS AND REACTIVE DILUENTS

Branching Agent | Crosslinking Agent | Diluent

Epoxy Crosslinkers & Diluents						
NAME	CAS.NO	BRAND NAME	APPEARANCE	MOISTURE CONTENT, (BY KF)	PURITY, (BY GC)	APPLICATION
N-N-Dimethyldipropylene triamine (DMDPTA)	10563-29-8	IAL EPC 06	Clear colorless liquid	0.5 % Max	99.0 % Min	Crosslinking agent/accelerator
N,N-Bis(3-aminopropyl) methylamine (BAPMA/BisMAPA)	105-83-9	IAL EPC 02	Clear colorless to pale yellow liquid	0.5 % Max	98.0 % Min	Building block for epoxy
1 ,1 ,1-tris (4-hydroxy phenyl) ethane (THPE)	27955-94-8	IAL THPE	White powder	0.2 % Max	99.5 % Min	Branching and crosslinking agent
Dimethyl amino propyl amine (DMAPA)	109-55-7	IAL EPC 03	Clear colorless liquid	0.5 % Max	99.0 % Min	Crosslinking agent
N,N-Dimethyl benzylamine (BDMA)	103-83-3	IAL BDMA	Colorless to pale yellow liquid	0.5 % Max	99.0 % Min	Crosslinking agent
Di-(Butyl amino) propylamine (DBAPA)	102-83-0	IAL EPC 04	Clear colorless liquid	0.5 % Max	98.0 % Min	Crosslinking agent
3-Cyclohexyl Amino Propylamine (CHAPA)	3312-60-5	IAL EPC 05	Colorless to pale yellowish liquid	0.5 % Max	98.0 % Min	Crosslinking agent
N-Methyl-1,3-propanediamine (MAPA)	6291-84-5	IAL EPC 01	Colorless to pale yellowish liquid	0.5 % Max	98.0 % Min	Crosslinking agent
N-aminopropyl morpholine (3APM)	123-00-2	IAL EPC 07	Clear liquid	0.5 % Max	98.0 % Min	Crosslinking agent
Piperidine	110-89-4	IAL EPC 08	Clear colorless liquid	0.5 % Max	98.0 % Min	Crosslinking agent
1-(3-Aminopropyl) imidazole (3API)	5036-48-6	IAL EPC 09	Colorless to pale yellow Liquid	0.5 % Max	98.0 % Min	Crosslinking agent
N-Methyl Cyclohexylamine (NMCHA)	100-60-7	IAL EPC 10	Clear colorless to pale yellow liquid	0.5 % Max	98.0 % Min	Crosslinking agent
NAME	CAS.NO	BRAND NAME	APPEARANCE	COLOR	EEW, g/eq	APPLICATION
O-Cresol glycidyl ether (OGCE)	2210-79-9	IAL OCGE	Clear liquid	2.0 G Max	167 – 189	Reactive Diluent for epoxy
Phenyl glycidyl ether (PGE)	122-60-1	IAL PGE	Clear liquid	2.0 G Max	159 – 170	Reactive Diluent for epoxy
2-Ethylhexyl glycidyl ether (EHGE)	2461-15-6	IAL EPC 13	Colorless to pale yellow Liquid	2.0 G Max	223 – 250	Reactive Diluent for epoxy
C12-C14 Alcohol glycidyl ether	68609-97-2	IAL EPC 14	Colorless to pale yellow Liquid	2.0 G Max	270 – 312	Reactive Diluent for epoxy
Polyethylene Glycol (PEG’ 200, 400, & 800)	25322-68-3	IAL PEG	Colorless to pale yellow viscous liquid	50 A Max	-	Diluent for epoxy

INDOSTAT- ANTISTATIC ADDITIVES

INDOSTAT portfolio features top-tier, high-performance antistatic agents for plastics additives. **INDOSTATs** are ethoxylated amines which are extensively employed as **Internal antistatic additive** for polymers such as PE, PP, ABS, and polystyrenics. **INDOSTATs** have good thermal stability and low color.

Masterbatch pellets containing up to 80% of antistat active can be made using Indostat products.

Product Recommendation: 0.1-0.3%



Indostat Products	Description	Form	Viscosity mPa.s	Moisture By KF	Application
2T 320	Ethoxylated tallow amine	Paste	77	0.2 Max	Used in film applications PE, LDPE, and PP
2C 240	Ethoxylated coco amine	Liquid	150	0.2 Max	Used in film applications PE, LDPE, PP, SAN, ABS & HIPS.
2S 360	Ethoxylated hydrogenated tallow amine	Solid	-	0.2 Max	High processing temperature used in PE, LLDPE, PP, SAN, and ABS.
2O 370	Ethoxylated oleyl amine	Liquid	155	0.2 Max	Liquid alternative to 2T 320
2S90 3600	Ethoxylated stearyl amine	Solid	-	0.5 Max	Used in various polymers such as PE, LLDPE, PP, SAN, and ABS.