

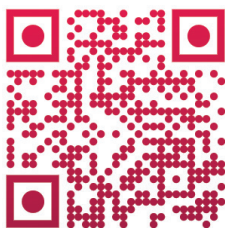
**INDO
AMINES
AMERICAS LLC**



PLASTICS & RUBBER

Anti-stats | Mold Release | Emulsifiers
Chain-extenders | Catalyst

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POLYETHERS (MOLD RELEASE)

NAME	CAS.NO	BRAND NAME	APPEARANCE	%, MOISTURE CONTENT (By KF)	HYDROXYL VALUE, mgKOH/g	pH (1 % Aq. SOLUTION)	APPLICATION
Polyethylene Glycol 200	25322-68-3	IAL PEG-200	Color less to pale yellow viscous liquid	0.5 Max	535 – 590	4.5 – 7.5	Plastic - Mold release agent
Polyethylene Glycol 400	25322-68-3	IAL PEG - 400	Color less to pale yellow viscous liquid	0.5 Max	267 - 295	4.5 – 7.5	Rubber - Heat transfer aid & Mold release agent

SORBITAN ESTERS (ANTIFOGG ADDITIVES)

NAME	CAS.NO	BRAND NAME	ACID VALUE mgKOH/g	HYDROXYL VALUE mgKOH/g	SAPONIFICATION VALUE mgKOH/g	APPLICATION
Sorbitan Mono Oleate	1338-43-8	IAL SMO HO	7 Max	190 - 210	145 - 160	Antifogg additive for Agro films (polyoleins)

ETHOXYLATES (ANTISTATIC ADDITIVES)

NAME	CAS.NO	BRAND NAME	APPEARANCE	COLOR (GARDNER)	HYDROXYL VALUE, mgKOH/g	MOISTURE CONTENT, BY KF	APPLICATION
Polysorbate 20 (PSB 20)	9005-64-5	IAL PSB 20	Pale yellow to Amber colored viscous liquid	7 Max	96 – 108	3 Max	Antistat (external) - Polymer & Polyethylene terephthalate
Polysorbate 60 (PSB 60)	9005-67-8	IAL PSB 60	Oily light yellow to amber color viscous, Opaque liquid	8 Max	81 - 96	3 Max	Antistat (external) - Polymer & Polyethylene terephthalate

NAME	CAS.NO	BRAND NAME	APPEARANCE	COLOR (APHA)	TERITARY AMINE,%	MOISTURE CONTENT , BY KF	APPLICATION
Tallow amine 2 EO	61791-44-4	INDOSTAT 2T 320	Slightly yellowish pasty liquid	200.0 Max	97.0 Min	0.2 Max	Antistat (internal) for PE / LDPE / PP
Coco amine 2 EO	69791-31-9	INDOSTAT 2C 240	Slightly yellow clear liquid	150.0 Max	97.0 Min	0.2 Max	Antistat (internal) for PE / LDPE / PP / SAN / ABS
Oleyl amine 2 EO	25307-17-9	INDOSTAT 2O 370	Slightly yellowish pasty liquid	200.0 Max	97.0 Min	0.2 Max	Antistat (internal) for PE / PP / ABS / PS
Stearyl amine 2 EO	10213-78-2	INDOSTAT 2S90 3600	Slightly yellowish pasty solid	150.0 Max	97.0 Min	0.5 Max	Antistat (internal) for PE / PP / ABS / PS
Hydrogenated tallow Amine EO	90367-28-5	INDOSTAT 2S 360	Slightly yellowish pasty solid	150.0 Max	97.0 Min	0.5 Max	Antistat (internal) for PE / PP / ABS / PS

FATTY ETHOXYLATES (EMULSIFIERS AND DISPERSANTS)

NAME	CAS.NO	BRAND NAME	APPEARANCE	COLOR (APHA)	HYDROXYL VALUE, mgKOH/g	pH, 5 % in DISTILLED WATER	APPLICATION
Nonyl Phenol 9 EO	9016-45-9	IAL NP 9	Color less clear viscous liquid	50 Max	85 – 95	6.0 – 8.0	Dispersing agent & Emulsion polymerization
Nonyl Phenol 10 EO	9016-45-9	IAL NP 10	Color less clear viscous liquid	50 Max	80 – 88	6.0 – 8.0	Dispersing agent & Emulsion polymerization
Nonyl Phenol 20 EO	9016-45-9	IAL NP 20	White to creamy white solid	100 Max	45 – 60	6.0 – 8.0	Dispersing agent & Emulsion polymerization
Lauryl Alcohol 10 EO	68439-50 -9	IAL LA 10	Liquid to Semi solid paste	50 Max	85 – 100	5.5-7.5	Emulsifier - styrene acrylic & full acrylic binder
Lauryl Alcohol 30 EO	68439-50 -9	IAL LA 30	White to off white waxy solid	100 Max	36 - 42	5.5-7.5	Latex post stabilizer & polyvinyl acetate stabilizer
Tridecyl Alcohol 20 EO	9043-30-5	IAL TDA 20	White waxy solid	100 Max	50 – 57	6.0 – 8.0	Dispersing agent - Plastic
Castor Oil 40 EO	61791-12-6	IAL CO 40	Yellowish viscous liquid	6.0 Max	---	---	Emulsifier & post polymerization stabilizer - styrene acrylics, styrene butadiene rubber & polyvinyl chloride
Castor Oil 70 EO	61791-12-6	IAL CO 70	Yellowish solid	6.0 Max	---	---	Steric stabilization - Latex rubber, nitrile rubber,styrene acrylics, styrene butadiene rubber & polyvinyl chloride

SPECIALTY AMINES AND CATALYST

NAME	CAS.NO	BRAND NAME	APPEARANCE	MOISTURE CONTENT , (BY KF)	PURITY, (BY GC)	APPLICATION
N-N-Dimethyldipropylene triamine (DMDPTA)	10563-29-8	IAL DMDPTA	Clear colorless liquid	0.5 % Max	99.0 % Min	Catalyst for Polyurethane and Epoxy Crosslinking agent / accelerator for Epoxy
1,3-Bis(2-hydroxyethoxy) benzene (HER)	102-40-9	IAL HER	White crystal powder	0.1 % Max	99.0 % Min	Chain extender for Polyurethane and Polyester. Adhesion promoter and Moisture resistant for adhesive and coating formulations

Hydroquinone Bis-(2-hydroxyethyl) ether (HQEE)	104-38-1	IAL HQEE	Grayish white powder	0.2 Max	99.0 % Min	Chain extender for TDI / MDI Polyurethane and elastomers. Manufacturing aid for polyester, polyolefins, polyurethane and hard waxy resins	
N,N-Bis(3-aminopropyl) methylamine (Bis-MAPA)	105-83-9	IAL BMAPA	Clear colorless to pale yellow liquid	0.5 % Max	98.0 % Min	Potential building block for Polyurethane, Epoxy, Polyamide and acrylic polymers	
1 ,1 ,1-tris (4-hydroxy phenyl) ethane (THPE)	27955-94-8	IAL THPE	White powder	0.5 % Max	99.0 % Min	Branching and crosslinking agent for Polycarbonates, Epoxy and Polyester. Adhesion promoter and durability enhancer for adhesives and coatings.	
Tris (2-hydroxyethyl) isocyanurate (THEIC)	839-90-7	IAL THEIC	White to off-white crystalline powder	0.5 % Max	99.0 % Min	Heat stabilizer, flame retardant and plasticizers for PVC, Rubber and wire enamels	
Dimethyl amino propyl amine (DMAPA)	109-55-7	IAL DMAPA	Clear colorless liquid	0.4 % Max	99.5 % Min	Crosslinking agent for epoxy. Accelerator for Rubber vulcanization. Catalyst for Polyurethane foam.	
N-Methyl Morpholine (NMM)	109-02-4	IAL NMM	Clear colorless liquid	0.5 % Max	99.0 % Min	Catalyst for polyurethane and synthesis of rubber accelerators.	
Morpholine	110-91-8	MORPHOLINE	Clear colorless liquid	0.5 % Max	99.0 % Min	Catalyst for butadiene and synthesis of rubber accelerators. Corrosion inhibitor.	
N,N-Dimethyl benzylamine (BDMA)	103-83-3	IAL BDMA	Colorless to pale yellow liquid with possible presence of minor crystal	0.5 % Max	99.0 % Min	Crosslinking agent for Epoxy. Catalyst for Polyurethane foam. Catalyst for NBR	
Di-(Butyl amino) propylamine (DBAPA)	102-83-0	IAL DBAPA	Clear colorless liquid	0.5 % Max	98.0 % Min	Crosslinking agent for Epoxy. Accelerator for Rubber vulcanization.	
Piperidine	110-89-4	PIPERIDINE	Clear colorless liquid	0.5 % Max	99.0 % Min	Building block for nitrogen-containing polymers and synthesis of rubber accelerators	
Benzyl Amine	100-46-9	BENZYL AMINE	Clear colorless to pale liquid	0.5 % Max	99.0 % Min	Building block for synthesis of rubber accelerators, various polymers and coating additives.	
Di N- Butyl Amine (DnBA)	111-92-2	DI-N-BUTYL AMINE	Clear colorless liquid	0.5 % Max	99.0 % Min	Rubber chemicals- Di-n-butylthiocarbamate thiuram, Zinc Di-n-Butyl Dithio Carbamate	
Di N- Propyl Amine (DnPA)	142-84-7	DI-N-PROPYLAMINE	Clear Colorless to Pale Yellowish Liquid	0.5 % Max	99.0 % Min	Intermediate in production of rubber accelerators	
3-Cyclohexyl Amino Propylamine (CHAPA)	3312-60-5	IAL CAPA	Clear Colorless to pale yellowish liquid	0.5 % Max	98.0 % Min	Crosslinking agent for Epoxy	
1,1-Bis(4-hydroxy-3- methyl phenyl) cyclohexane (DMBPC)	2362-14-3	IAL DMBPC	White to off white crystalline powder	0.5 % Max	99.0 % Min	Scratch resistance & moisture barrier in Polycarbonates	
OTHERS							
NAME	CAS.NO	BRAND NAME	APPEARANCE	COLOR (GARDNER)	EPOXY VALUE, Eq/kg	EPOXY EQUIVALENT WEIGHT, (EEW), g/eq	APPLICATION
O-Cresol glycidyl ether (OGCE)	2210-79-9	IAL OGCE	Clear liquid	2.0 Max	5.30 – 6.00	167.0 – 189.0	Diluent for epoxy
Phenyl glycidyl ether (PGE)	122-60-1	IAL PGE	Clear liquid	2.0 Max	5.90 – 6.30	159.0 – 170.0	Diluent for epoxy
Dioctyl sulfosuccinate sodium salt	577-11-7	INDOL DC 30	Clear pale yellow liquid	2.0 Max	---	---	Co -emulsifier - Emulsion polymerization
NAME	CAS.NO	BRAND NAME	APPEARANCE	TOTAL AMINE VALUE mg KOH/g	TERTIARY AMINE	IODINE VALUE, gI ₂ /100g	APPLICATION
Stearyl Amine	124-30-1	IAL SA 90D	White Solid	204 - 210	98.0 Min	5 Max	Stearyl Amide production intermediate
Oleyl Amine	112-90-3	IAL OAD	Colorless to pale yellow liquid	200 - 215	99.0 min	80 Min	Oleyl Amide production intermediate
Soya Amine	61790-18-9	IAL SOAD	Colorless to pale yellow liquid	205 – 220	99.0 min	85.0 Min	Thermosetting epoxy crosslinking agent
Coco Diamine	61791-63-7	IAL CDA	Yellow to amber Pasty liquid	400 – 445	90.0 Min	12.0 Max	Epoxy crosslinking agent
Oleyl Diamine	7173-62-8	IAL ODA	Liquid pale yellow paste	320 – 340	90.0 Min	60.0 Min	Polyurethane Catalyst intermediates
Distearyl Amine	112-99-2	IAL DSA	Yellowish pasty solid	100 - 114	85 Min (Secondary)	3 Max	Functional polymer property enhancer