

PART NUMBER	CATALOG NAME	CAS / TSCA Listed (Y/N)			FEATURES	APPEARANCE	VISCOSITY (cP @ 25°C)	SUGGESTED APPLICATIONS			
ANTI-BI	ANTI-BLEEDS										
A6150	A-6150	1151519-17-3 (Y)	A proprietary non-halogenated additive designed to reduce resin bleed out on a variety of surfaces (especially difficult to control copper surfaces) with minimal or no effect on the adhesion properties of the formulation.	Unavailable	Excellent bleed control Co-curable in free-radical polymerization Minimal adhesion degradation Non-halogenated— a 'green' alternative to conventional anti-bleed and mold release materials	Yellow Liquid	100	For use as an additive to reduce resin bleed out specifically on metal surfaces			
A6150	A-6150	1151519-17-3 (Y)	A proprietary non-halogenated additive designed to reduce resin bleed out on a variety of surfaces (especially difficult to control copper surfaces) with minimal or no effect on the adhesion properties of the formulation.	Unavailable	Excellent bleed control Co-curable in free-radical polymerization Minimal adhesion degradation Non-halogenated— a 'green' alternative to conventional anti-bleed and mold release materials	Yellow Liquid	100	For use as an additive to reduce resin bleed out specifically on metal surfaces			
A6150	A-6150	1151519-17-3 (Y)	A proprietary non-halogenated additive designed to reduce resin bleed out on a variety of surfaces (especially difficult to control copper surfaces) with minimal or no effect on the adhesion properties of the formulation.	Unavailable	Excellent bleed control Co-curable in free-radical polymerization Minimal adhesion degradation Non-halogenated— a 'green' alternative to conventional anti-bleed and mold release materials	Yellow Liquid	100	For use as an additive to reduce resin bleed out specifically on metal surfaces			
A6280	A-6280	2999663-83-9 (N)	A proprietary non-halogenated additive designed to reduce resin bleed out on a variety of surfaces (especially difficult to control gold surfaces) with minimal or no effect on the adhesion properties of the formulation.	Unavailable	Excellent bleed control Co-curable in free-radical polymerization Minimal adhesion degradation Non-halogenated – a 'green' alternative to conventional anti-bleed and mold release materials	Yellow Liquid	63	For use as an additive to reduce resin bleed out specifically on metal surfaces			



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FUNCT	ONAL ADD	ITIVES						
A6165	A-6165	1151654-51-1 (Y)	Soluble additive that on addition to a conductive adhesive formulation can significantly decrease the volume resistivity of the cured material	Unavailable	Improves electrical conductivity in metal filed conductive paste formulations Soluble in most resin systems May improve thermal conductivity in some formulations	Dark Brown / Black	Very viscous	Increases electrical conductivity of resin system
A6220	A-284	93158-39-5 (Y)	Dibutyl-1,4 Cyclohexanedicarboxylate	H ₃ C	PlasticizerNon-phthalateVery low viscosity	Colorless Liquid	30	For use as a plasticizer in applications where human contact is expected
R1217-M	A-478-M	111308-10-2 (N)	Pyromellitic Dianhydride Dimethacrylate – Mixture of Isomers	H ₃ C + O + O + O + O + O + O + O + O + O +	Versatile adhesion promoter	Fine White Powder	Solid	Adhesion promoter
R1231	A-304	70293-55-9 (N)	4-Metacryloxyethyl Trimellitic Anhydride	H ₃ C	Adhesion Promoter Versatile adhesion promoter	White Powder / Crystals	Solid	Adhesion promoter
R1251	A-675-100%	148019-46-9 (Y)	PMGDM	CH ₃ O CH ₂ OH CH ₃ CH ₃ OH CH ₃	Versatile adhesion promoter	Light Yellow	Very viscous	Adhesion promoter



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IMIDE-E	XTENDED	BISMALEIN	MIDES						
R1090	BMI-3000 Gel	921213-77-6 (Y)	Bismaleimide oligomer that exhibits excellent flexibility and, on cure, forms very tough hydrophobic polyimides.	Where n = 1 to 10	Toughener Hydrophobic High adhesion * Superior thermal stability	Dk : N/A Df : N/A	Red-Amber Gel	Solid	Film adhesivesPre-applied adhesivesAdhesion to metal
R1155	BMI-689	Original: 682800-79-9 Current: 1911605-95-2 (Y)	A unique very low viscosity BMI resin	contains unsaturation	Toughener Hydrophobic High adhesion * Superior thermal stability	Dk : 2.4 Df : 0.0023	Yellow to Amber Liquid	1,500 ± 500	Base resin or additive in thermoset formulations designed for high temperature resistance
R1171-P	BMI-5000 Powder	921213-77-6 (Y)	Imide-extended bismaleimide oligomer that exhibits excellent toughness in the cured state with intermediate cross-link density.	Where n = 1 to 10	Low cross-link density Non-tacky Film-forming Maleimide functional oligomer Cures to a tough thermoset Additive to enhance toughness in thermoset compositions	Dk: 2.4 Df: 0.0023	Light Yellow Powder	Solid	Film adhesives Thermally resistant adhesives
R1171-T	BMI-5000 Toluene	921213-77-6 (Y)	Imide-extended bismaleimide oligomer that exhibits excellent toughness in the cured state with intermediate cross-link density.	Where n = 1 to 10	Low cross-link density Non-tacky Film-forming Maleimide functional oligomer Cures to a tough thermoset Additive to enhance toughness in thermoset compositions	Dk: 2.4 Df: 0.0023	Dark Brown Liquid	1,000	Film adhesives Thermally resistant adhesives



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IMIDE-E	XTENDED	BISMALEIN	MIDES continued						
R1191	BMI-1700	1224691-98-8 (Y)	An amorphous, low molecular weight bismaleimide oligomer that exhibits good adhesion to a variety of substrates	Where n = 1 to 10	Soluble in many reactive diluents Hydrophobic Superior thermal stability High adhesion to various substrates	Dk : 2.3 Df : 0.00176	Amber High Viscous Liquid	30,000 ± 10,000 (60°C)	 Film adhesives Pre-applied adhesives Adhesion to metal
R1203	BMI-1500	1290041-56-3 (Y)	An amorphous, low molecular weight bismaleimide oligomer that exhibits good adhesion to a variety of substrates		 Soluble in many reactive diluents Hydrophobic Superior thermal stability High adhesion to various substrates 	Dk : 2.42 Df : 0.0021	Amber Viscous Liquid	20,000 ± 10,000 (60°C)	Film adhesivesPre-applied adhesivesAdhesion to metal
R1225	BMI-3000 CG	921213-77-6 (Y)	Low cost bismaleimide oligomer that exhibits excellent flexibility and, on cure, forms very tough hydrophobic polyimides.	Where n = 1 to 10	 Low cost Toughener Hydrophobic High adhesion * Superior thermal stability 	Dk : 2.34 Df : 0.0016	Light Yellow Powder	Solid	Film adhesivesPre-applied adhesivesAdhesion to metal
R1232	BMI-1400	1224691-98-8 (Y)	An amorphous, low molecular weight bismaleimide oligomer that exhibits good adhesion to a variety of substrates	Where n = 1 to 10	Specialty formulated lower viscosity version of BMI-1700	Dk : 2.3 Df : 0.00245	Amber High Viscous Liquid	6,500 ± 1,000 (60°C)	Film adhesivesPre-applied adhesivesAdhesion to metal
R1288	BMI-3000J Powder	921213-77-6 (Y)	Bismaleimide oligomer that exhibits excellent flexibility and, on cure, forms very tough hydrophobic polyimides	Where n = 1 to 10	Toughener Hydrophobic High adhesion * Superior thermal stability	Dk : 2.195 Df : 0.00136	Light Yellow Powder	Solid	Film adhesivesPre-applied adhesivesAdhesion to metal



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IMIDE-E	XTENDED	BISMALEIN	MIDES continued						
R1288\$	BMI-3000 Solution	921213-77-6 (Y)	Bismaleimide oligomer that exhibits excellent flexibility and, on cure, forms very tough hydrophobic polyimides	Where n = 1 to 10	Toughener Hydrophobic Excellent dielectric properties Superior thermal stability	Dk : 2.4 Df : 0.0017	Light Amber Liquid	N/A	Additive to increase flexibility, hydrophobicity and thixotropy.
R1316	BMI-2500	2020378-57-6 (Y)	Designed to extend the range of applications suitable for use with Designer Molecules, Inc. Imide-Extended Bismaleimide Oligomers to those in need of higher Tg and modulus.	N/A	Toughener Hydrophobic High adhesion * Superior thermal stability Low pH hydrolytic resistance Reduce resin bleed out	Dk : 2.3 Df : 0.0015	Light Yellow Glassy Powder	Solid	Additive to increase flexibility, hydrophobicity, thixotropy Base resin – produces films that are tough, flexible, & have good peel strength
R1334	BMI-6000	2095324-53-9 (N)	Has excellent thermal stability and workability. It is soluble in a variety of solvents such as cyclopentanone, cyclohexanone, MEK, DMF, DMAC, and NMP in combination with aromatic solvents	N/A	Toughener Hydrophobic Super thermal stability Good dielectric properties Excellent workability High Tg Low CTE	Dk : 2.6 Df : 0.008	Light yellow powder	Solid	Adhesive layer when laminating materials Adhesion promoter
R1354	BMI-2560	2126832-79-7 (N)	Designed to extend the range of applications suitable for use with the Designer Molecules, Inc. imide extended bismaleimide oligomers to those in need of higher Tg and modulus	N/A	Toughener Hydrophobic Superior thermal stability	Dk : 2.5 Df : 0.0016	Light Yellow Glassy Powder	Solid	An additive to increase flexibility, hydrophobicity and thixotropy

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IMIDE-E	XTENDED	BISMALEIN	MIDES continued						
R1356	BMI-6100	2127116-97-4 (N)	A high molecular weight, curable bismaleimide (BMI) oligomer mixture suitable for use as the base resin in a variety of microelectronic assembly applications	N/A	Flexibility / High strength Curability / Hydrophobicity Superior electrical properties	Dk : 2.65 Df : 0.005	Amber liquid	370	Recommended for use as a polyimide (PI) replacement resin in CCL applications
R1442	BMI-689M	1911605-95-2 (Y)	A unique low viscosity liquid bismaleimide based on a non-hydrogenated dimer diamine backbone and serves as a low-cost alternative to DMI's BMI-689	contains unsaturation	Low viscosity liquid BMI Hydrophobic Superior thermal stability	Dk: 2.4 Df: 0.0023	Dark amber liquid	5,000 ± 2,000	An additive or base resin in adhesives that are designed for high temperature resistance
R1453	BMI-4200	N/A (N)	Designed to extend the range of applications suitable for use with DMI's imide extended BMI oligomers to those in need of a higher Tg and modulus. It can be processed in a resin system as a solid or dissolved in a solvent.	N/A	Toughener Hydrophobic Increased Tg & modulus for demanding applications Superior thermal stability	Dk : 2.64 Df : 0.00206	Yellow granules	Solid	An additive to increase hydrophobicity and thixotropy



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FUNCTI	ONAL CYC	CLOSILOXAN	ES					
R1362	CS-697	257284-60-9 (Y)	A polyglycidyl ether cyclosiloxane monomer	N ₁ C OH ₃	MultifunctionalUV curableLow chlorideLow viscosityColorless	Colorless Liquid	200	UV curable additive
R1366	CS-783	921214-21-3 (Y)	Methacrylate epoxy functional hybrid cyclosiloxane monomer		 Dual cure mechanism Multifunctional UV Curable Low chloride Low viscosity 	Yellow Liquid	250	Hybrid cures UV cures B-stageable adhesives
PHENYL	L ESTER E	POXY CURAT						
R1146	EC-234	926305-16-0 (Y-LVE)	Phenyl ester epoxy curative hybrid	O CH ₃ O CH ₂	Hybrid cure Low viscosity	Light Yellow Liquid	40	UV adhesives B-stageable adhesives
					Hydrolytically resistant			

936555-33-8

(Y-LVE)

R1147

EC-326

Bisphenol A based

acetate/proprionate

epoxy curative

Low melting point

 Does not impede free radical cure

Thermal stability

• Hydrophobic

Toughener

2,000 ***

White/Yellow

Solid

• Film adhesives

Pre-applied

adhesives



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PHENY	L ESTER E	POXY CURAT	TIVES continued					
R1148	EC-392	107466-61-9 (Y)	Phenyl ester epoxy curative hybrid of diallyl bisphenol A	$O \longrightarrow \begin{pmatrix} CH_3 & & \\ CH_$	Dual cure mechanism High cross-link density Multifunctional Thermal stability	Amber Liquid	2,500	B-stageable adhesives Epoxy and BMI co- curative
R1149	EC-1074	926657-64-9 (Y)	A tetra-phenol epoxy curative derived from dimerdiol		Low modulus Toughener Hydrolytically resistant thermosets Hydrophobic Thermal stability	Amber Glassy Solid	Solid	Film Adhesives Pre-applied adhesive compositions
R1165	EC-861	1071523-12-0 (Y)	Phenyl acetate epoxy curative		Low modulus Toughener Hydrolytically resistant thermosets Hydrophobic Thermal stability Does not impede free radical cure	Amber/Yellow Liquid	2,500	Low stress epoxy thermosets
R1170	EC-298	1044794-71-7 (Y-LVE)	Difunctional phenyl ester epoxy curative	H ₃ C O CH ₃	Stable Low viscosity Does not impede free radical cure	Light Yellow Liquid	500	Thermoset adhesives Curative for epoxy /(meth)acrylate hybrids Hybrid epoxy/free radical thermosets
R1227	EC-312	10192-62-8 (Y)	Difunctional phenyl ester epoxy curative	$O \longrightarrow CH_3 \longrightarrow CH_3 \longrightarrow O$ $CH_3 \longrightarrow CH_3 \longrightarrow O$	Low cost Low melting point Thermal stability Hydrophobic Does not impede free radical cure	Fine White Powder	Solid	Film adhesivesPre-applied adhesives



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EPOXY	CATALYS	rs						
R1198 R1207 R1208 R1209	ECAT Series ECAT-243 ECAT-259 ECAT-353 ECAT-434	1253404-90-8 (Y) 1313999-39-1 (Y) 1325729-75-6 (Y) 1332716-20-7 (Y)	Imidazole Epoxy Catalysts	Unavailable	 Good solubility in most epoxy monomers Excellent latency characteristics Can be used as a catalyst or curative Tunable cures Promotes clean, rapid monomodal cures 	Refer to TDS	Solid	Electronic mold compounds Underfills
MONOF	UNCTIONA	L MONOMERS						
R1121	MM-281	57079-01-3 (Y-LVE)	Maleimidoundecanoic Acid (MUDA)	ОН	Flexible aliphatic backbone Maleimide & carboxylic acid functional groups Adhesion promoter	White to Off- white Powder	N/A	Intermediate for ester and amide linked maleimide monomers
R1134	MM-290	903876-45-9 (Y)	Isobornyl Cyclohexyl Acrylate	H ₃ C O CH ₂	Lower weight loss on cure than Isobornyl Acrylate (IBOA) Mild, pleasant odor Hydrolytic resistance	Light Tan Liquid	250	UV or peroxide cured resins, coatings, or adhesives
R1139	MM-220	93962-84-6 (Y-LVE)	Tricyclodecane Acrylate	H ₂ C O	Low weight loss on cure Helps reduce cure shrinkage Low viscosity	Light Yellow Liquid	< 100	UV cure coatings



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MONOF	UNCTIONA	L MONOMERS	continued					
R1173	MM-204	33791-58-1 (Y)	Monofunctional acrylate monomer	$O = \bigcup_{O = \bigcup_{O \in \mathcal{A}} A \in \mathcal{A}} A = \bigcup_{O \in \mathcal{A}} A = $	 Low viscosity High glass transition temperature Low cure shrinkage Hydrolytically resistant Diluent for thermoset resins High Tg 	Light Tan Liquid	50	UV or peroxide cured resins, coatings, or adhesives
R1175	MM-211	55750-53-3 (N)	An intermediate chain length, maleimide terminated carboxylic acid	о 0 0 0 0 0 0 0	 Flexible aliphatic backbone Maleimide and carboxylic acid functional groups Adhesion promoter 	White/Light Yellow Powder	N/A	Intermediate for ester and amide linked maleimide monomers
R1197	MM-304	N/A (N)	Isobornyl Cyclohexyl Methacrylate	H_3C H_3C H_3C H_3C H_3C H_3C	Very low color Lower weight loss on cure than Isobornyl Methacrylate (IBOMA) Mild, pleasant odor Hydrolytic resistance	Colorless Liquid	80	Dental Reactive diluent
R1233	MM-348	132010-64-1 (N)	Maleimide Terminated 9- Octadecene	H,C O	Maleimide functional reactive diluents	Light brown	Semi-solid	Reactive diluent



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POLYE	STER ACR	LATE METH	ACRYLATES (PEAM)					
R1096	PEAM-645	921213-39-0 (Y)	Polyester Acrylate/Methacrylate	Where n = 1 to 5	High Tg High modulus Low CTE High adhesion I Thermal stability	Amber Liquid	6,500	Low CTE thermosets
R1111	PEAM-1044	921214-61-1 (Y)	Polyester Acrylate/Methacrylate	Where n = 1 to 5	Low warpage Hydrophobic High adhesion * Thermal stability	Amber Liquid	(40°C)	Low stress coatings
R1144	PEAM-1769	921214-61-1 (Y)	Polyester Acrylate/Methacrylate	Where n = 1 to 5	Ultra-low modulus Hydrophobic High adhesion * High thermal stability Adhesion to metals Flexibilizer	Amber Liquid	4,500	Low stress coatings
POLYE	STER METH	HACRYLATES	S (PEM)					
R9990	PEM-665	N/A (N)	Methacrylate terminated polyester oligomer	H ₂ C CH ₂	Low color Low cure shrinkage Thermal stability Tough	Light Yellow Tint Liquid	6,500 (50°C)	Dental BisGMA replacement



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FUNCTI	ONAL UR	ETHANES						
R1095	U-793	869488-57-3 920758-62-9 902742-80-9 (Y)	Urethane resin functionalized with a methacrylate and an epoxy	Unavailable	Low color Low cure shrinkage Thermal stability Tough	Light Yellow Tint Liquid	6,500 (50°C)	Dental
R1102	U-835	869488-57-3 1003557-45-6 1003612-76-7 (Y-LVE)	Urethane resin functionalized with acrylate and methacrylate end groups	Unavailable	Low modulus Excellent hydrolytic resistance High adhesion * Adhesion to metals Flexibilizer	Light Yellow Liquid	20,000	Dental Moisture resistant coatings
R1216	U-347	1371570-15-8 (N)	Phenyl glycerol urethane dimethacrylate (PGDMA)	H ₃ C H ₂ C O NH O CH ₃	Low cure shrinkageColorlessGood refractive indexNot bisphenol A based	Clear Colorless Liquid	9,500	DentalMoisture resistant coatings
R1228	U-471	72869-86-4 (Y)	TMDI urethane dimethacrylate monomer	$H_{1}C \xrightarrow{\bigcap} O \cap O \bigcirc O \xrightarrow{\bigcap} O \cap O \bigcirc O \xrightarrow{\bigcap} O \cap O \bigcirc O \bigcirc O \xrightarrow{\bigcap} O \bigcirc O $	Low color Low cure shrinkage	Slight Yellow Liquid	8,000	Dental
R1230	U-483	N/A (N)	IPDI urethane dimethacrylate	H ₂ C CH ₃ CH ₂ CH ₃	Low viscosity Low cure shrinkage Colorless Not bisphenol A based	Clear Colorless Liquid	5,000	Dental Moisture resistant coatings Light cure coatings
R1266	U-443	67910-48-9 (N)	TMDI urethane diacrylate monomer	H ₂ C	Excellent Curing Properties	Clear Colorless Oil	5,500	Light-cured coating resins



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FORMU	FORMULATED PRODUCTS												
R1353	DMI-2575	Mixture (Y)	Unique low viscosity liquid bismaleimide based formulation suitable for use as a base resin system for spray applications	Mixture	 Pre-catalyzed Extended pot-life (< 6mo. @ room temp) Hydrophobic Solvent free Superior thermal stability Does not require refrigerated shipping 	Amber liquid	1400 ± 300	Spray coating applications					
R1397	DMI-3006A	Mixture (Y)	Modified polyimide based negative type photoresist	Mixture	 Low modulus Very high electrical reliability UV cured-low thermal requirements Low cure shrinkage High heat resistance Good electrical properties 	Amber liquid	250	Wafer buffer coating					
R1398	DMI-2555	Mixture (Y)	A BMI-based coating for dispense applications	Mixture	Pre-catalyzed Low modulus Hydrophobic Excellent hydrolytic resistance Low stress Adhesion to metals Flexibilizer	Yellow to Dark Amber Liquid	900 ± 200	Die top coating applications					



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IMIDE-L	MIDE-LINKED												
R1363	ILR-1363	Mixture (N)	A high molecular weight, curable oligomer mixture suitable for use as the base resin in a variety of microelectronic assembly applications	Unavailable	High strengthFlexibleHydrophobicHigh heat resistanceGood electrical properties	Amber liquid	750	A polyimide (PI) replacement resin					
R1399	ILR-1399	3027864-14-5 (N)	A proprietary high molecular weight functionalized polyimide designed specifically to resist degradation when exposed to elevated temperatures for extended durations	Unavailable	Thermally curableToughSuperior thermal stabilityHydrophobic	Amber liquid	15,000 @ 25% Solids	For use in LED assembly applications or where high temperature stability is required.					
R1400	ILR-1400	2489312-38-9 (N)	High molecular weight non- functionalized polyimide with excellent physical properties	Unavailable	 Very Flexible film Good thermal stability (Td = > 400°C) Good wetting property post b-stage on copper foil Superior dielectric properties Low water absorption Soluble in most aromatic and aliphatic solvents 	Amber liquid	1,500 @ 15% Solids	For use where flexibility and good electrical properties are required					
R1401	ILR-1401	Mixture (Y)	A high molecular weight, curable oligomer mixture suitable for use as the base resin in a variety of microelectronic assembly applications	Unavailable	Very low material shrinkage Flexible / high strength Curability & very low modulus Hydrophobic / low water absorption	Amber liquid	5,000 @ 20% Solids	For use in applications that require high temperature resin performance such as CCL					
R1402	ILR-1402	Mixture (Y)	A high molecular weight, curable oligomer mixture suitable for use as the base resin in a variety of microelectronic assembly applications	Unavailable	Very low material shrinkage Flexible / high strength Curability & very low modulus Hydrophobic / low water absorption	Amber liquid	4,000 @ 20% Solids	For use in applications that require high temperature resin performance such as CCL					
R1457	ILR-1457	3027864-14-5 (N)	A proprietary high molecular weight functionalized polyimide designed specifically to resist degradation when exposed to elevated temperatures for extended durations	Unavailable	Thermally curable Tough Superior thermal stability Hydrophobic	Amber liquid	2,500 @ 25% Solids	For use in high temperature adhesive applications					

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ALL DATA PROVIDED FOR REFERENCE ONLY AND MAY VARY BY TEST METHOD

- Various substrates
- ** Many of the structures are an idealized representation of a statistical distribution
- Supercooled
- Storage at < 25°C will result in precipitation of some solids. The fully liquid state can be regenerated by warming to 40°C until all solids dissolve
- Material manufactured under Low Volume Exemption (LVE) in compliance with Section 5(h)(4) of the Toxic Substances Control Act (TSCA), 15 U.S.C. LVE

TO PLACE AN ORDER, REQUEST SAMPLES, OR TO SPEAK WITH US ABOUT DEVELOPING A PRODUCT FOR YOUR CHEMICAL NEEDS, CONTACT US AT 858-348-1122