Revision Date: 01-Feb-18

Section 1:	Chemical Produ	ct and Company Identification					
Product Na	ame AG A	AG Anion Exchange Resin					
Product Num	A8-B5	4-B500-C-CL, A4-B500-M-CL, A4-DR10-C-CL, A4-DR10-M-CL, A4-R50M-CL, A8-B500-C-CL, 8-B500-F-CL, A8-B500-M-CL, A8-C50-M-CL, A8-DR10-C-CL, A8-DR10-F-CL, A8-DR10-M-CL, 8-DR5-I-CL, A8-R50-M-CL					
Product Syno	nym(s): Analyt Resin	rtical Grade Anion Exchange Resin, chloride form 1x4, Analytical Grade Anion Exchange					
Identified Use	s: Labora	aboratory chemicals, manufacture of substances					
Manufacturer	1955	m Technologies LLC General (8-5 CST M-F) University Lane Information: 800-422-6693 (in USA) Illinois 60532 630-963-0320					
24 Hour Eme	rgency Number (L	JS/Canada): 1-800-255-3924 CHEMTEL Contract #:MIS9554039					
24 Hour Inter	national Access N	Number: 1-813-248-0585					
		Country Specific Emergency Numbers:					
Australia:	1-300-954-583	India: 000-800-100-4086					
Brazil: 0-800-591-6		Mexico: 1-800-99-731					
Section 2:	Hazard(s) Identif	ication					
		ostance or mixture					
		tance or mixture in accordance with 29 CFR 1910 (OSHA HCS)					
Skin Irrita	nt and Mild Eye Irrit	ant					
Respirato	ry Tract Irritation						
22 GHSLa	bel elements in	cluding precautionary statements					
Pictogr							
5							
Signal	Word Wa	rning					
-	Statement(s):	5					
H31	5+H320	Causes skin irritation and eye irritation.					
H33	5	May cause respiratory irritation					
Precau	utionary Statement(	s):					
Pr	P261	Avoid breathing dust.					
	P264	Wash hands thoroughly after handling.					
	P271	Use only outdoors or in a well-ventilated area.					
5	P280	Wear protective gloves, clothing, and eye protection.					
Res	P302+P352	IF ON SKIN: Wash with plenty of soap and water.					
Response	P304+P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.					
(D	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.					
	P312	Call a POISON CONTROL CENTER or doctor if you feel unwell.					
	P332+P313	If skin irritation occurs, seek medical attention.					
	P337+P313	If eye irritation persists, get medical attention.					
	P362+P364	Take off contaminated clothing and wash before reuse.					
Sto	P403+P233	Store in a well-ventilated place. Keep container tightly closed.					
Storage	P405	Store locked up.					
ē							
Disposal	P501	Dispose of contents/container in accordance with federal, state, and local regulations.					

2.3 Hazards Not Otherwise Classified (HNOC) or not covered by GHS:

Component	ation on Ingredien	CAS_Number	Percentage Range	
Styrene, divinylbenzene and ethylstyre	ne copolymer	69011-19-4	65-70%	
chloromethyl trimethylamine functionali		09011-19-4	03-70%	
De-ionized water		007732-18-5	30-35%	
Section 4: First-aid Measures				
Ingestion	Rinse mouth and ca	all a POISON CONTRO	DL CENTER or doctor if you feel unwell	
Skin Contact	Wash immediately with soap and copious amounts of water. Remove and wash contaminated clothing promptly. If irritation develops, seek medical attention.			
Eye Contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.			
		ists, get medical attenti		
nhalation	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.			
Most important symptoms and effects, both acute and delayed	No further relevant	information available.		
Indication of any immediate medical attention and special treatment needed		symptoms (decontamin	ation, vital functions), no known specific	
Section 5: Firefighting Measures				
Extinguishing Media	Foam, CO2, Dry Ch	nemical		
Protective Equipment	Wear positive press protective equipme		athing apparatus and full personal	
Special Hazards	Possible combustion products include carbon oxides, nitrogen oxides, chlorine.			
Section 6: Accidental Release M	easures			
Personal precautions	Avoid creating and	breathing dust. See se	ection 8.	
	Use proper personal protect equipment (specified in section 8)			
	Surface may be slippery.			
Methods and materials for containment and clean-up	Sweep up material	and transfer to a suitab	le container for disposal.	
Reference to other sections	For disposal see section 13.			
	Ful dispusal see se	ction 13.		
	-	ction 13.		
Section 7: Handling and Storage	Avoid repeated free		may fracture. If frozen, thaw at room	
Section 7: Handling and Storage	Avoid repeated free temperature.	ze-thaw cycles; beads	may fracture. If frozen, thaw at room	
Section 7: Handling and Storage Conditions for safe handling	Avoid repeated free temperature. Use mechanical ex	ze-thaw cycles; beads haust if dust is formed.		
Section 7: Handling and Storage Conditions for safe handling	Avoid repeated free temperature. Use mechanical ex Normal warehouse	ze-thaw cycles; beads haust if dust is formed. storage in cool, dry are	a is satisfactory.	
Section 7: Handling and Storage Conditions for safe handling	Avoid repeated free temperature. Use mechanical ex Normal warehouse Storage temperature	ze-thaw cycles; beads haust if dust is formed. storage in cool, dry are e: 0 to 50 °C (32 to 2	a is satisfactory. 122°F )	
Section 7: Handling and Storage Conditions for safe handling	Avoid repeated free temperature. Use mechanical ex Normal warehouse Storage temperatur Recommended she	ze-thaw cycles; beads haust if dust is formed. storage in cool, dry are e: 0 to 50 °C (32 to If Life: Use within 24 n	a is satisfactory. 122°F ) nonths	
Section 7: Handling and Storage Conditions for safe handling	Avoid repeated free temperature. Use mechanical ex Normal warehouse Storage temperatur Recommended she Preferred Storage t	eze-thaw cycles; beads haust if dust is formed. storage in cool, dry are e: 0 to 50 °C (32 to If Life: Use within 24 n emperature is in the lo	a is satisfactory. 122°F )	
Section 7: Handling and Storage Conditions for safe handling Conditions for safe storage	Avoid repeated free temperature. Use mechanical ex Normal warehouse Storage temperatur Recommended she Preferred Storage t Keep away from str	eze-thaw cycles; beads haust if dust is formed. storage in cool, dry are e: 0 to 50 °C (32 to If Life: Use within 24 n emperature is in the lo ong oxidizers.	a is satisfactory. 122°F) nonths wer half of the range given below.	
Section 7: Handling and Storage Conditions for safe handling Conditions for safe storage	Avoid repeated free temperature. Use mechanical ex Normal warehouse Storage temperatur Recommended she Preferred Storage t Keep away from str	eze-thaw cycles; beads haust if dust is formed. storage in cool, dry are e: 0 to 50 °C (32 to If Life: Use within 24 n emperature is in the lo ong oxidizers.	a is satisfactory. 122°F ) nonths	
Section 7: Handling and Storage Conditions for safe handling Conditions for safe storage Specific End Use(s)	Avoid repeated free temperature. Use mechanical ex Normal warehouse Storage temperatur Recommended she Preferred Storage t Keep away from str Apart from the uses	eze-thaw cycles; beads haust if dust is formed. storage in cool, dry are e: 0 to 50 °C (32 to If Life: Use within 24 n emperature is in the lo ong oxidizers.	a is satisfactory. 122°F) nonths wer half of the range given below.	
Section 7: Handling and Storage Conditions for safe handling Conditions for safe storage Specific End Use(s) Section 8: Exposure Controls / F Control Parameters	Avoid repeated free temperature. Use mechanical ex Normal warehouse Storage temperatur Recommended she Preferred Storage t Keep away from str Apart from the uses Personal Protectio Contains no substa	eze-thaw cycles; beads haust if dust is formed. storage in cool, dry are e: 0 to 50 °C (32 to If Life: Use within 24 n emperature is in the lo ong oxidizers. mentioned in section n	a is satisfactory. 122°F ) nonths wer half of the range given below. 1 no other specific uses are stipulated. exposure limit values.	
Section 7: Handling and Storage Conditions for safe handling Conditions for safe storage Specific End Use(s) Section 8: Exposure Controls / F Control Parameters	Avoid repeated free temperature. Use mechanical ex Normal warehouse Storage temperatur Recommended she Preferred Storage t Keep away from str Apart from the uses Personal Protectio Contains no substa Avoid contact with s immediately after h	eze-thaw cycles; beads haust if dust is formed. storage in cool, dry are e: 0 to 50 °C (32 to 7 If Life: Use within 24 n emperature is in the lo ong oxidizers. mentioned in section n nces with occupational skin, eyes, and clothing andling the product.	a is satisfactory. 122°F ) nonths wer half of the range given below. 1 no other specific uses are stipulated. exposure limit values. . Wash hands before breaks and	
Section 7: Handling and Storage Conditions for safe handling Conditions for safe storage Specific End Use(s) Section 8: Exposure Controls / F Control Parameters Exposure Controls	Avoid repeated free temperature. Use mechanical ex Normal warehouse Storage temperatur Recommended she Preferred Storage t Keep away from str Apart from the uses Personal Protectio Contains no substa Avoid contact with s immediately after h Do not eat, drink or	eze-thaw cycles; beads haust if dust is formed. storage in cool, dry are e: 0 to 50 °C (32 to If Life: Use within 24 n emperature is in the lo ong oxidizers. mentioned in section n nces with occupational skin, eyes, and clothing andling the product. smoke when using this	a is satisfactory. 122°F ) nonths wer half of the range given below. 1 no other specific uses are stipulated. exposure limit values. . Wash hands before breaks and	
Section 7: Handling and Storage Conditions for safe handling Conditions for safe storage Specific End Use(s) Section 8: Exposure Controls / F Control Parameters Exposure Controls	Avoid repeated free temperature. Use mechanical ex Normal warehouse Storage temperatur Recommended she Preferred Storage t Keep away from str Apart from the uses Personal Protectio Contains no substa Avoid contact with s immediately after h Do not eat, drink or Wear safety glasse	eze-thaw cycles; beads haust if dust is formed. storage in cool, dry are e: 0 to 50 °C (32 to If Life: Use within 24 n emperature is in the lo ong oxidizers. mentioned in section n nces with occupational skin, eyes, and clothing andling the product. smoke when using this s.	a is satisfactory. 122°F ) nonths wer half of the range given below. 1 no other specific uses are stipulated. exposure limit values. . Wash hands before breaks and	
Section 7: Handling and Storage Conditions for safe handling Conditions for safe storage Specific End Use(s) Section 8: Exposure Controls / F Control Parameters Exposure Controls Eye protection Body protection Respiratory protection	Avoid repeated free temperature. Use mechanical ex Normal warehouse Storage temperatur Recommended she Preferred Storage t Keep away from str Apart from the uses Personal Protectio Contains no substa Avoid contact with s immediately after h Do not eat, drink or	eze-thaw cycles; beads haust if dust is formed. storage in cool, dry are e: 0 to 50 °C (32 to lf Life: Use within 24 n emperature is in the lo ong oxidizers. mentioned in section n nces with occupational skin, eyes, and clothing andling the product. smoke when using this s. ves and clothing.	a is satisfactory. 122°F ) nonths wer half of the range given below. 1 no other specific uses are stipulated. exposure limit values. . Wash hands before breaks and	

		Anion Exchange Re	ISIN SDS	Revision Date. 01-Feb-18		
Section 9: Physical I						
Information on basic phy		nical properties				
Appearance:	Powder White to Ye	low	Explosion Limits (Upper/Lower):	Not applicable		
Odor: Amine			Flash Point:	Not applicable		
Odor Threshold: pH:	Odor Threshold: Not Establish pH: Essentially n		Flammability:	Not flammable until all moisture is removed; resin starts to burn		
Melting Point:	0 °C (water)	; Not determined for	Autologition Tomporoturo	in flame at 230°C		
Boiling Point:		er); Not determined for	AutoIgnition Temperature: Decomposition	above 500°C Not Established		
	solid		Temperature			
Relative Density: 44 lb/cuft			VaporPressure:	Not Established		
Solubility:	Solubility: Insoluble in v Partition Coefficient: Not Establish		VaporDensity:	Not Established		
	Viscosity: Not Applicab		Evaporation Rate:	Not established		
Section 10: Stability	and Reactiv					
Reactivity		No hazardous reactions if stored and handled as indicated.				
Chemical Stability	Chemical Stability		Stable under normal handling and storage conditions.			
Hazardous Reactions		No hazardous reactions are expected in normal laboratory use. Hazardous polymerization will not occur.				
Conditions to Avoid		Exposure to elevated temperatures can cause product to decompose.				
Materials to Avoid		Contact with strong oxidizers will degrade material.				
Hazardous decomposition Products		Decomposition products depend upon temperature, air supply, and the presence of other materials. Decomposition products can include and are not limited to: Chlorinated hydrocarbons, aromatic compounds, hydrocarbons, hydrogen chloride, and organic amines				
Section 11: Toxicolo	ogy Informati	on				
Acute Toxicity Oral Effects Inhalation Effects Dermal Effects		Oral LD50 > 5,000 mg Inhalation LC50 has r Dermal LD50 has not	not been determined.			
Skin corrosion/irritation						
Serious eye damage/irritation		Prolonged exposure not likely to cause significant skin irritation. May cause more severe response if skin is abraded (scratched or cut).				
		May cause slight temporary eye irritation. Solid or dust may cause irritation or corneal injury due to mechanical action.				
Respiratory or skin sensi	tization					
Germ Cell Mutagenicity		No relevant data found.				
•		No relevant data foun	d.			
Carcinogenicity		No rolovent dete fe	4			
Reproductive Toxicity		No relevant data found.				
0		No relevant data foun	No relevant data found.			
Specific Target Organ Toxicity Single Exposure Repeated Exposure Aspiration Hazard		No relevant data found. No relevant data found. Not anticipated to cause significant adverse effects.				
		No data available regarding the aspiration hazard of this product.				

4	AO Anion Exchange Real 600				
Section 12: Ecological Infor	mation				
Aquatic Toxicity	No data are available on the adverse effects of this material on the environment. Not expected to be acutely toxic, but material in pellet or bead form may mechanically cause adverse effects if ingested by waterfowl or aquatic life.				
Persistance and degradability	This water-insoluble polymeric solid is expected to be inert in the environment. Surface photodegradation is expected with exposure to sunlight. No appreciable biodegredation is expected				
Bioaccumulative potential	Partition coefficient, n-octanol/water (log Pow) is not applicable.				
Mobility in Soil	In the terrestrial environment, material is expected to remain in the soil. In the aquatic environment, material will sink and remain in the sediment.				
Section 13: Disposal Consid	derations				
General	Avoid disposal to sewers and local waterways.				
	Dispose of contents/container in accordance with federal, state, and local regulations.				
Unused:	Bury resin in licensed landfill or burn in approved incinerator equipped with an afterburner and scrubber according to local, state, and federal regulations.				
Used:	For resin contaminated with hazardous materials, dispose of mixture as hazardous material according to local, state, and federal regulations.				
Section 14: Transport Inform	nation				
Air Transport:	Not Hazardous per IATA 2014				
Ground Transport:	Not D.O.T. Hazardous				
Water Transport:	Not Hazardous per IMDG 2012.				
Section 15: Regulatory Infor	mation				
Canada - DSL/NDSL	All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.				
US Federal Regulations	Toxic Substances Control Act (TSCA): All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30.				
US State Regulations					
	To the best of our knowledge, no substances are listed on the following Right-to- Know State Lists: PA				
	This product contains no listed substances known to the state of California to cause cancer, birth defects, or other reproductive harm, at levels which would require a				
	warning under California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act)				
Section 16: Other Informatic	warning under California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act)				
Section 16: Other Informatic	warning under California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act)				
	warning under California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act)				
	warning under California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act) On 13-Oct-15: Cartridge Part Number added				

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