

MATERIAL SAFETY DATA SHEET
(MSDS)

NOT OSHA HAZARDOUS
NOT WHMIS CONTROLLED

BS242 — LIST 7



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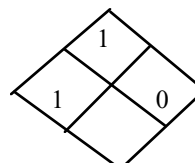
PRODUCT NAME:		Ion Exchange Resin	Code: 69855	Key: 891090-3
		Date Issued: 11/08/88	DOT Hazard Class NON-REGULATED	
Formula: Not applicable		Chemical Name or Synonyms: Mixed bed ion exchange resin (hydrogen and hydroxide forms)		
SECTION 1 — COMPOSITIONAL INFORMATION				
Anion/Cation exchange resin Water		CAS Reg. No. NONHAZ NONHAZ	35-50 50-65	R&H OSHA ACGIH NE NE NE NE NE NE NE=None established
SECTION 2 — PHYSICAL PROPERTY INFORMATION				
APPEARANCE — ODOR — Ph Beads; pH (aqueous slurry) = 5 to 9				Viscosity NA
MELTING OR FREEZING POINT OC/32F (WATER)		BOILING POINT 100C/212F (water)	VAPOR PRESSURE mmHg 17 @20C (water)	VAPOR DENSITY (AIR=1) Less than 1 (water)
SOLUBILITY IN WATER Negligible		PERCENT VOLATILE & BY WEIGHT 50-65 (water)	SPECIFIC GRAVITY (WATER-1) 1.1.-1.3	EVAPORATION RATE (BUTYL ACETATE-1) Less than 1 (water)
SECTION 3 FIRE AND EXPLOSION HAZARD INFORMATION				
FLASH POINT NA	AUTO IGNITION TEMPERATURE 500C/932F (EST.)	LOWER EXPLOSION LIMIT (%) NA	UPPER EXPLOSION LIMIT (%) NA	
EXTINGUISHING MEDIA				
<input type="checkbox"/> Foam	<input type="checkbox"/> Alcohol Foam	<input checked="" type="checkbox"/> CO ₂	<input checked="" type="checkbox"/> Dry Chemical	<input checked="" type="checkbox"/> Water Spray <input type="checkbox"/> Other
SPECIAL FIRE FIGHTING PROCEDURES Wear self-contained breathing apparatus (pressure-demand, MSHA/NIOSH-approved or equivalent) and full protective gear.				
UNUSUAL FIRE AND EXPLOSION HAZARDS Toxic combustion products may include alkylamines and oxides of sulfur and nitrogen.				
SECTION 4 — HEALTH HAZARD INFORMATION				
ROHM AND HAAS RECOMMENDED WORK PLACE EXPOSURE LIMITS STEL = Non established.				
EFFECTS OF OVEREXPOSURE Eye Contact: Product can cause eye irritation.				
EMERGENCY AND FIRST AIR PROCEDURES Eye Contact: Immediately flush eyes with large amounts of water and continue for at least 15 minutes. Get prompt medical attention.				
SECTION 5 REACTIVITY INFORMATION				
STABILITY <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable		CONDITIONS TO AVOID Temperatures over 200C/392F		
HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may yield styrene and divinylbenzene monomers, alkylamines and oxides of nitrogen.				
HAZARDOUS POLYMERIZATION <input type="checkbox"/> MAY OCCUR <input checked="" type="checkbox"/> WILL NOT OCCUR		CONDITIONS TO AVOID None known		

INCOMPATIBILITY (MATERIALS TO AVOID)		Avoid contact with concentrated nitric acid or any other strong oxidizing agent at all times.	
<input type="checkbox"/> WATER	<input checked="" type="checkbox"/> OTHER		
SECTION 6 — SPILL OR LEAK PROCEDURE INFORMATION			
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Floor may be slippery. Use care to avoid falls. Sweep up and transfer to containers for recovery or disposal.			
WASTE DISPOSAL METHODS Unused resin may be incinerated or landfilled in facilities meeting local, state and federal regulations. For contaminated resin, the user must determine the hazard and use an appropriate disposal method.			
SECTION 7 — SPECIAL PROTECTION INFORMATION			
VENTILATION TYPE Normal room ventilation.			
RESPIRATORY PROTECTION None required for normal operations.			
PROTECTIVE GLOVES		EYE PROTECTION	
None required		Safety glasses (ANSI Z-87.1 or approved equivalent)	
OTHER PROTECTIVE EQUIPMENT Eyewash facility			
SECTION 8 — STORAGE AND HANDLING INFORMATION			
STORAGE TEMPERATURE max. 49C/120F min. 0C/32F	INDOOR YES	HEATED	REFRIGERATED OUTDOOR YES
NOTE: Store at ambient temperatures. Avoid repeated freeze-thaw cycles. NOTE: Ground ion exchange resins should be treated as potential eye irritants. A finely ground form of a structurally related strong acid cation exchange resin produced severe rabbit eye irritation. NOTE: The maximum operating temperature recommended for this product is 60C/140F. Functional group destruction and loss of capacity will occur above this temperature.			
SECTION 9 — TOXICITY INFORMATION			
No toxicity data available for this product.			
SECTION 10 — MISCELLANEOUS INFORMATION			
Caution: Do not pack column with dry ion exchange resins. Dry beads expand when wetted; this expansion can cause a glass column to shatter. Caution: Nitric acid and other strong oxidizing agents can cause explosive-type reactions when mixed with ion exchange resins. Proper design of equipment to prevent rapid build-up of pressure is necessary if use of an oxidizing agent such as nitric acid is contemplated. Before using strong oxidizing agents in contact with ion exchange beads, consult sources knowledgeable in handling these materials.			
NA — Not Applicable C — Ceiling value	Key 906545-0	Date of Issue 11/07/88	Supersedes 8/31/87
The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Labconco Corporation assumes no responsibility for personal injury or property damage to vendees. Users or third parties caused by the material. Such vendees or users assume all risks associated with the use of the material.			

HAZARD RATING
4 - EXTREME
3 - HIGH
2 - MODERATE
1 - SLIGHT
0 - INSIGNIFICANT

**SEE SECTION 4

fire



reactivity

toxicity

special