

AMBERLITE (R) MB150 Ion

Material Safety Data Sheet

Section 1. Product and Company Identification

Product Name AMBERLITE (R) MB150 Ion

Product Code AX0763

Manufacturer EMD Chemicals Inc.

P.O. Box 70
480 Democrat Road
Gibbstown, NJ 08027

Prior to January 1, 2003 EMD Chemicals Inc. was
EM Industries, Inc. or EM Science, Division of
EM Industries, Inc.

Effective Date 3/3/2003

For More Information Call

856-423-6300 Technical Service
Monday-Friday: 8:00 AM - 5:00 PM

In Case of Emergency Call

800-424-9300 CHEMTREC
(USA)
613-996-6666 CANUTEC
(Canada)
24 Hours/Day: 7 Days/Week

Synonym None.

Material Uses Analytical reagent.

Chemical Family mixture

Section 2. Composition and Information on Ingredients

Component	CAS #	% by Weight
Sulfonated divinylbenzene / styrene copolymer, H ion form	39389-20-3	40-60
WATER	7732-18-5	40-60
Quat amine divinylbenzene / styrene copolymer, OH ion form	9017-79-2	40-60

Section 3. Hazards Identification

Physical State and Appearance Solid. (Beads solid.)

Emergency Overview CAUTION!
CAUSES EYE IRRITATION.
MAY CAUSE SKIN IRRITATION.

Routes of Entry Ingestion.

Potential Acute Health Effects

Eyes Hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching.

Skin May be hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Inhalation No known acute effects of this product resulting from inhalation.

Ingestion No known acute effects of this product resulting from ingestion.

Potential Chronic Health Effects

Carcinogenic Effects This material is not known to cause cancer in animals or humans.

Effects

Additional information See Toxicological Information (section 11)

Medical Conditions Aggravated by Repeated or prolonged exposure is not known to aggravate medical condition.

Overexposure:

Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.
Skin Contact	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Section 5. Fire Fighting Measures

Flammability of the Product	Non-flammable.
Auto-ignition Temperature	Not applicable.
Flash Points	Not applicable.
Flammable Limits	Not applicable.
Products of Combustion	Not available.
Fire Hazards in Presence of Various Substances	Not applicable.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of static discharge: No. Risks of explosion of the product in presence of mechanical impact: No.
Fire Fighting Media and Instructions	Not applicable.
Protective Clothing (Fire)	Not applicable.
Special Remarks on Fire Hazards	Not available.
Special Remarks on Explosion Hazards	Not available.

Section 6. Accidental Release Measures

Small Spill and Leak	Use appropriate tools to put the spilled solid in a convenient waste disposal container.
Large Spill and Leak	Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.
Spill Kit Information	No specific spill kit required for this product.

Section 7. Handling and Storage

Handling	Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid repeated freeze–thaw cycles, beads may fracture. Maximum recommended operating temperature is 60C / 140F. Do not ingest.
Storage	Keep container tightly closed. Keep container in a cool, well–ventilated area. Minimum recommended storage; 0C / 32F. Maximum recommended storage; 49C / 120F.

Section 8. Exposure Controls/Personal Protection

Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal Protection	
Eyes	Splash goggles.
Body	Lab coat.
Respiratory	Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.
Hands	Gloves.
Feet	Not applicable.
Protective Clothing (Pictograms)	
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self–contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Product Name	Exposure Limits
Sulfonated divinylbenzene / styrene copolymer, H ion form	Not available.
WATER	Not available.
Quat amine divinylbenzene / styrene copolymer, OH ion form	Not available.

Section 9. Physical and Chemical Properties

Odor	Amine like.
Color	Amber.
Physical State and Appearance	Solid. (Beads solid.)
Molecular Weight	Not applicable.
Molecular Formula	Not applicable.
pH	Not applicable.
Boiling/Condensation Point	Not available.
Melting/Freezing Point	Not available.
Specific Gravity	Not available.
Vapor Pressure	Not available.
Vapor Density	Not available.

AMBERLITE (R) MB150 Ion

Odor Threshold	Not available.
Evaporation Rate	Not available.
LogKow	Not available.
Solubility	Insoluble in water.

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Conditions of Instability	Not available.
Incompatibility with Various Substances	Reactive with oxidizing agents.
Rem/Incompatibility	Not available.
Hazardous Decomposition Products	sulfur oxides (SO ₂ , SO ₃ ...) , nitrogen oxides (NO, NO ₂ ...)
Hazardous Polymerization	Will not occur.

Section 11. Toxicological Information

RTECS Number:

Sulfonated divinylbenzene/styrene copolymer, H ion form	Not available.
Water	ZC0110000
Quat amine divinylbenzene/styrene copolymer, OH ion form	Not available.

Toxicity	LD50: Not available. LC50: Not available.
-----------------	--

Chronic Effects on Humans	Not available.
----------------------------------	----------------

Acute Effects on Humans	Hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching. May be hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.
--------------------------------	--

Synergetic Products (Toxicologically)	Not available.
--	----------------

Irritancy	Draize Test: Not available.
------------------	-----------------------------

Sensitization	Not available.
----------------------	----------------

Carcinogenic Effects	This material is not known to cause cancer in animals or humans.
-----------------------------	--

Toxicity to Reproductive System	Not available.
--	----------------

Teratogenic Effects	Not available.
----------------------------	----------------

Mutagenic Effects	Not available.
--------------------------	----------------

Section 12. Ecological Information

Ecotoxicity	Not available.
--------------------	----------------

BOD5 and COD	Not available.
---------------------	----------------

Toxicity of the	The product itself and its products of degradation are not toxic.
------------------------	---

**Products of
Biodegradation**

Section 13. Disposal Considerations

EPA Waste Number	Not available.
Treatment	Material does not have an EPA Waste Number and is not a listed waste, however consultation with a permitted waste disposal site (TSD) should be accomplished. Always contact a permitted waste disposal (TSD) to assure compliance with all current local, state, and Federal Regulations.

Section 14. Transport Information

DOT Classification	Proper Shipping Name: CHEMICALS, N.O.S. RQ: Not applicable.
TDG Classification	Not available.
IMO/IMDG Classification	Proper Shipping Name: CHEMICALS, N.O.S. RQ: Not applicable.
ICAO/IATA Classification	Proper Shipping Name: CHEMICALS, N.O.S. RQ: Not applicable.

Section 15. Regulatory Information

U.S. Federal Regulations	<p>TSCA 8(b) inventory: Sulfonated divinylbenzene / styrene copolymer, H ion form; WATER; Quat amine divinylbenzene / styrene copolymer, OH ion form</p> <p>SARA 302/304/311/312 extremely hazardous substances: No products were found.</p> <p>SARA 302/304 emergency planning and notification: No products were found.</p> <p>SARA 302/304/311/312 hazardous chemicals: No products were found.</p> <p>SARA 311/312 MSDS distribution – chemical inventory – hazard identification: No products were found.</p> <p>SARA 313 toxic chemical notification and release reporting: No products were found.</p> <p>Clean Water Act (CWA) 307: No products were found.</p> <p>Clean Water Act (CWA) 311: No products were found.</p> <p>Clean air act (CAA) 112 accidental release prevention: No products were found.</p> <p>Clean air act (CAA) 112 regulated flammable substances: No products were found.</p> <p>Clean air act (CAA) 112 regulated toxic substances: No products were found.</p>
WHMIS (Canada)	<p>Class D–2B: Material causing other toxic effects (TOXIC).</p> <p>CEPA DSL: Sulfonated divinylbenzene / styrene copolymer, H ion form; WATER; Quat amine divinylbenzene / styrene copolymer, OH ion form</p> <p>This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all required information.</p>

AMBERLITE (R) MB150 Ion

International Regulations

EINECS Sulfonated divinylbenzene / styrene copolymer, H ion form Not available.
WATER 231-791-2

Quat amine divinylbenzene / styrene copolymer, OH ion form Not available.

DSCL (EEC) This product is not classified according to the EU regulations.

International Lists Australia (NICNAS): Sulfonated divinylbenzene / styrene copolymer, H ion form; WATER; Quat amine divinylbenzene / styrene copolymer, OH ion form

Japan (MITI): WATER

Korea (TCCL): Sulfonated divinylbenzene / styrene copolymer, H ion form; WATER; Quat amine divinylbenzene / styrene copolymer, OH ion form

Philippines (RA6969): Sulfonated divinylbenzene / styrene copolymer, H ion form; WATER; Quat amine divinylbenzene / styrene copolymer, OH ion form

China: No products were found.

State Regulations No products were found.

California prop. 65: No products were found.

Section 16. Other Information

National Fire Protection Association (U.S.A.)	0	Fire Hazard
	10	Health
		Reactivity
		Specific Hazard

Changed Since Last Revision +

Notice to Reader

The statements contained herein are based upon technical data that EMD Chemicals Inc. believes to be reliable, are offered for information purposes only and as a guide to the appropriate precautionary and emergency handling of the material by a properly trained person having the necessary technical skills. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use, storage and disposal of these materials and the safety and health of employees and customers and the protection of the environment. EMD CHEMICALS INC. MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE, WITH RESPECT TO THE INFORMATION HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS.
