



SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product name AMBERLITE(TM) BD10 Dry

Supplier Rohm and Haas India Pvt. Ltd.
Plot no. T22 /PT, MIDC, Talaja Ind. area
Talaja, Maharashtra 410208 India
Telephone: +91-22-2741-2479

Emergency telephone
India Local - Talaja 022-6731-5555
Asia-Pacific toll free +800 2537 8747

2. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a preparation.

Component	CAS-No.	EINECS-No.	Concentration	Classification
Styrene, Divinylbenzene and Ethylstyrene Copolymer, Sulfonated, Hydrogen Form	69011-20-7		95.0 - <= 100.0 %	Xi R41

The full text of each R phrase is listed in section 16.

3. HAZARDS IDENTIFICATION

Risk of serious damage to eyes.

Classified as hazardous according to regulatory criteria.

4. FIRST AID MEASURES

Inhalation: Move to fresh air.

Skin contact: Wash off with soap and water. If skin irritation persists, call a physician.

Eye contact: Immediately flush the eye with plenty of water for at least 15 minutes, holding the eye open. Get prompt medical attention.

5. FIRE-FIGHTING MEASURES

Thermal decomposition Combustion generates toxic fumes of the following: Carbon oxides, sulfur oxides

Suitable extinguishing media: Use the following extinguishing media when fighting fires involving this material:

Water spray

Carbon dioxide (CO₂)

Foam

Dry chemical

Specific hazards during fire fighting: Cool closed containers exposed to fire with water spray.

Special protective equipment for fire-fighters: In the event of fire, wear self-contained breathing apparatus.

Further information: Remain upwind.

Avoid breathing smoke.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Appropriate protective equipment must be worn when handling a spill of this material. See SECTION 8, Exposure Controls/Personal Protection, for recommendations.

If exposed to material during clean-up operations, see SECTION 4, First Aid Measures, for actions to follow.

Methods for cleaning up

Keep spectators away.

Floor may be slippery; use care to avoid falling.

Transfer spilled material to suitable containers for recovery or disposal.

7. HANDLING AND STORAGE

Handling

Avoid repeated freeze-thaw cycles; beads may fracture. If frozen, thaw at room temperature. Avoid contact with eyes, skin and clothing. See SECTION 8, Exposure Controls/Personal Protection, prior to handling. Do not get in eyes. This material is a severe irritant.

Storage

Further information:

CAUTION: Do not pack column with dry ion exchange resins. Dry beads expand when wetted; this expansion can cause glass column to shatter.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit(s)

Exposure limits are listed below, if they exist.

Exposure controls

Eye protection: Safety glasses

Hand protection: Wear suitable gloves.

Respiratory protection: No personal respiratory protective equipment normally required.

Protective measures: Facilities storing or utilizing this material should be equipped with an eyewash facility.

Engineering measures: None required under normal operating conditions.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Beads
Colour	amber
Odour	Odorless
pH	3.0 - 5.0
Flash point	not applicable
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Vapour pressure	22.0 hPa at 20 °C
Water solubility	practically insoluble
Relative density	0.87
Viscosity, dynamic	Not Applicable
Percent volatility	<3 % Water

NOTE: The physical data presented above are typical values and should not be construed as a specification.

10. STABILITY AND REACTIVITY

Hazardous reactions	Stable under normal conditions.
Materials to avoid	Avoid contact with the following: Strong Oxidizers
Hazardous decomposition products	Thermal decomposition may yield the following: monomer vapors,
polymerisation	Product will not undergo polymerization.

11. TOXICOLOGICAL INFORMATION

No data are available for this material. The information shown is based on profiles of compositionally similar materials.

Component: **Styrene, Divinylbenzene and Ethylstyrene Copolymer, Sulfonated, Hydrogen Form**
Acute oral toxicity LD50 rat >2,000 mg/kg

Component: **Styrene, Divinylbenzene and Ethylstyrene Copolymer, Sulfonated, Hydrogen Form**
Acute inhalation toxicity LC50 rat 4 h 11 mg/l

Component: **Styrene, Divinylbenzene and Ethylstyrene Copolymer, Sulfonated, Hydrogen Form**
Skin irritation rabbit OECD Test Guideline 404 4 h non-irritating

Component: **Styrene, Divinylbenzene and Ethylstyrene Copolymer, Sulfonated, Hydrogen Form**
Eye irritation rabbit OECD Test Guideline 405 24 h Corrosive

Component: **Styrene, Divinylbenzene and Ethylstyrene Copolymer, Sulfonated, Hydrogen Form**
Mutagenicity
Reverse mutation test using bacteria: Non-mutagenic with and without metabolic activation

12. ECOLOGICAL INFORMATION

There is no data available for this product.

13. DISPOSAL CONSIDERATIONS

Disposal

Waste Classification: When a decision is made to discard this material as supplied, it does not meet RCRA's characteristic definition of ignitability, corrosivity, or reactivity, and is not listed in 40 CFR 261.33. The toxicity characteristic (TC), however, has not been evaluated by the Toxicity Characteristic Leaching Procedure (TCLP).

Can be landfilled or incinerated, when in compliance with local regulations.

Contaminated packaging: Empty containers should be taken to local recyclers for disposal. Refer to applicable federal, state, and local regulations.

14. TRANSPORT INFORMATION

Classification for ROAD and Rail transport:

Not regulated (Not dangerous for transport)

Classification for SEA transport (IMO-IMDG):

Not regulated (Not dangerous for transport)

Classification for AIR transport (IATA/ICAO):

Not regulated (Not dangerous for transport)

Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations

15. REGULATORY INFORMATION

Label

Classification and labeling have been performed according to regulations.

Hazard symbol and Indication of danger

Xi Irritant

R-phrases(s)

R41 Risk of serious damage to eyes.

S-phrases(s)

S22 Do not breathe dust.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S39 Wear eye/face protection.

US. Toxic Substances Control Act (TSCA): All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

16. OTHER INFORMATION

Full text of the R-phrases given in Section 2

R41 Risk of serious damage to eyes.

Emergency telephone number

Asia-Pacific toll free	+800 2537 8747
Asia-Pacific toll	+65 6542 9595
From Indonesia toll free	+803 65 7576
From Pakistan toll free	+800 11065 2 6542 7115
From Sri Lanka (Colombo) toll free	+430 800 2 6542 7115
USA toll	+1 215 592 3000
European Region toll	+33 (0) 1400 25045

Legend

ACGIH	American Conference of Governmental Industrial Hygienists
BAC	Butyl acetate
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
STEL	Short Term Exposure Limit (STEL):
TLV	Threshold Limit Value
TWA	Time Weighted Average (TWA):
	Bar denotes a revision from prior MSDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

