LANXESS
Energizing Chemistry

Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, sulfonated

This document provides a brief description of Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, sulfonated, as represented by Lewatit® MonoPlus S 108 H, its uses, and the potential hazards associated with short and long term exposure. Environmental impact information for accidental releases is included. This information is general in nature and is not intended as a replacement for the material safety data sheet (SDS), product label and other safe handling literature. For additional information consult the LANXESS Corporation safety data sheet.

Identification

Chemical Name:	Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, sulfonated
Synonym(s):	Styrene/DVB resin
CAS Number:	69011-20-7

Description

Overview:	Lewatit® MonoPlus S 108 H is an odorless, brown to black solid at ambient temperatures. The product is sold in bead form.	
Uses:	Lewatit® MonoPlus S 108 H is an ion exchange resin sold by LANXESS for use in the demineralization of water for industrial waste water and steam generation systems and food solutions, and for such uses as decontamination, catalysis and biodiesel purification.	
Properties:	**Solubility in Water:**	Insoluble in cold water
	Auto-Ignition:	>500°C (>932°F)

Potential Human Health Effects

Occupational Exposure

Potential for occupational exposure exists during manufacture, in unloading, storage, staging and transfer operations and while charging reaction vessels at facilities using Lewatit® MonoPlus S 108 H in treatment system. A much lower potential for exposure exists in facilities using Lewatit® MonoPlus S 108 H in closed manufacturing processes by trained personnel.

Employee Training

Workers handling Lewatit® MonoPlus S 108 H should be trained to implement proper handling procedures and to understand the potential health and physical hazards of this product. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. Respirator use must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. In addition, LANXESS recommends gloves, tightly fitting safety goggles, suitable protective clothing and footwear be worn when handling Lewatit® MonoPlus S 108 H.

Consumer Exposure

LANXESS Corporation does not sell Lewatit® MonoPlus S 108 H to the general public.

Short-Term Health Effects

Eye contact with Lewatit® MonoPlus S 108 H is severely corrosive to eye tissues. Symptoms of exposure may include redness, tearing, swelling and burning. Permanent eye damage may occur.

Long-Term Health Effects

No known significant effects or critical hazards.

Physical Hazards

Lewatit® MonoPlus S 108 H is stable under normal conditions of use. Avoid contact with strong oxidizing agents. Heating to decomposition may release carbon monoxide and carbon dioxide. Avoid heat, open flames and other potential sources of ignition.

Potential Environmental Impact

No adverse environmental impact is expected.

Conclusion

Under normal conditions of anticipated use as described in this Product Safety Assessment, and if the recommended safe use and handling procedures are followed, Lewatit® MonoPlus S 108 H is not expected to pose a significant risk to human health or the environment.

References

MedlinePlus Medical Encyclopedia, U.S. National Library of Medicine and the National Institutes of Health

Safety Data Sheet (SDS), Lewatit® MonoPlus S 108 H, LANXESS Corporation

Contact Information

LANXESS Corporation, Product Safety & Regulatory Affairs, 111 RIDC Park West Drive, Pittsburgh, PA 15275-1112, USA, Phone 1-800-526-9377 [1-800-LANXESS]

Notices

Use and Application Information

The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations are beyond our control. Therefore, it is imperative that you test our products, technical assistance and information to determine to your own satisfaction whether they are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by us. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with patents covering any material or its use. No license is implied or in fact granted under the claims of any patent.