LANXESS
Energizing Chemistry

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

This document provides a brief description of Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, sulfonated, ammonium salts, as represented by Lewatit® S 100 NH4, 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, ammonium salts

Synonyms: Crosslinked polystyrene resin

CAS Number: 69011-21-8

Description

Overview: Lewatit® S 100 NH4 is a light brown solid at ambient temperatures. The product is sold in bead form.

Uses: Lewatit® S 100 NH4 is an ion exchange resin sold by LANXESS for use in the treatment and removal of cationic ions from industrial water applications and condensate polishing systems and as powdered resin for precoat filtration processes.

Properties: **Solubility in Water:** Insoluble in cold water

Potential Human Health Effects

Occupational Exposure

Potential for occupational exposure exists during manufacture, in unloading, storage, staging and transfer operations and when charging reaction vessels at facilities using Lewatit® S 100 NH4 in polishing systems or other applications. A much lower potential for exposure exists in facilities using Lewatit® S 100 NH4 in closed manufacturing processes by trained personnel.

Employee Training

Workers handling Lewatit® S 100 NH4 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, safety glasses with side shields, suitable protective clothing and footwear be worn when handling Lewatit® S 100 NH4.

Consumer Exposure

LANXESS Corporation does not sell Lewatit® S 100 NH4 to the general public.

Short-Term Health Effects

No known significant effects or critical hazards.

Long-Term Health Effects

No known significant effects or critical hazards.

Physical Hazards

Lewatit® S 100 NH4 is stable under normal conditions of use. Avoid contact with strong oxidizing agents. Heating to decomposition may release carbon monoxide, carbon dioxide and nitrogen oxides. 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® S 100 NH4 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® S 100 NH4, LANXESS Corporation

Contact Information

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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.