LANXESS Bromobutyl 2030

This document provides a brief description of LANXESS Bromobutyl 2030, 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 safety data sheet (SDS), product label and other safe handling literature. For additional information consult the LANXESS safety data sheet.

Identification

- **Product Name:** LANXESS Bromobutyl 2030
- **Chemical Name:** Brominated butyl rubber
- **Synonym(s):** BIIR
  - Bromobutyl rubber

Description

- **Overview:** LANXESS Bromobutyl 2030 is an off-white to yellowish, odorless solid at ambient temperatures. The product is sold in wrapped bales.
- **Uses:** LANXESS Bromobutyl 2030 is a rubber compound primarily used in the manufacture of tires and tire bladders (inner tubes). Other products manufactured using LANXESS Bromobutyl 2030 include hoses, seals, tank liners, membranes, stoppers and other rubber products.
- **Properties:**
  - **Flash Point:** >210°C (>410°F) Open Cup
  - **Solubility in Water:** Insoluble
  - **Decomposition:** > 170°C
Potential Human Health Effects

Occupational Exposure
LANXESS Bromobutyl 2030 is a solid rubber compound that does not present a significant exposure hazard under normal conditions and uses. The chemical compound can contain trace levels of brominated hydrocarbons that may be liberated during charging, sampling and other operations used in the manufacture of other products. Release concentrations under these circumstances would be in the very low parts per billion range.

Employee Training
Workers should be trained to properly handle bales of LANXESS Bromobutyl 2030 and to understand the potential health and physical hazards of the material. LANXESS recommends that safety glasses with side-shields, long pants and long-sleeved shirts, gloves and foot protection be worn when handling the product. Heat resistant gloves are recommended in operations where LANXESS Bromobutyl 2030 is heated to avoid thermal burns.

Consumer Exposure
LANXESS Corporation does not sell this product to the general public.

Short-Term Health Effects
If broken down into tiny pieces, airborne rubber particles may cause mechanical irritation of the skin, eyes and respiratory tract. Pre-existing respiratory, skin and eye disorders may be aggravated by over-exposure to the product and trace gases and fumes liberated during processing.

Long-Term Health Effects
No adverse chronic health effects are expected.
Brominated hydrocarbons, such as bromoform and dibromomethylpropane may be released in minute (PPB) concentrations during processing/compounding operations. Proper ventilation should be used where necessary to maintain concentrations below established threshold limits.

Physical Hazards
LANXESS Bromobutyl 2030 is stable under normal conditions of use. Exposure to high temperatures may cause an exothermic reaction and decomposition. Heating to decomposition or burning may release carbon monoxide, hydrogen bromide and other potentially toxic gases/fumes. Contact with heated material may cause thermal burns.

Potential Environmental Impact
LANXESS Bromobutyl 2030 is stable and not readily biodegradable. An accidental release would typically be easy to clean up and would not be expected to pose a significant risk to the environment.
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, LANXESS Bromobutyl 2030 is not expected to pose a significant risk to human health or the environment.

References

Safety Data Sheet (SDS), LANXESS Bromobutyl 2030, LANXESS Corporation

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

Contact Information

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Notices

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