Vulkacit MOZ/LG

This document provides a brief description of Vulkacit MOZ/LG, 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:	Vulkacit MOZ/LG
Chemical Name:	2-(Morpholinothio)benzothiazole
Synonym(s):	2-Benzothiazolesulfenemorpholide 2-Benzothiazolyl n-Morpholine Sulfide Benzothiazole, 2-(Morpholinothio) MBS OBTS
CAS Number:	102-77-2

Description

Overview:	LANXESS' Vulkacit MOZ/LG is a yellow solid sold in granule form. The chemical has a slight amine odor.	
Uses:	Vulkacit MOZ/LG is sold by LANXESS for use as a vulcanization accelerator in the production of tires and other rubber products.	
Properties:	**Melting Point:**	>158°F (70°C)
	Flash Point:	370°F (187.78°C)
	Solubility in Water:	Low

Potential Human Health Effects

Occupational Exposure

Potential for exposure exists during manufacture, at transloading facilities, during transfers to storage or staging areas and—in its application as a vulcanization accelerator in the production of rubber—during the charging of mixers.

Employee Training

Workers handling Vulkacit MOZ/LG are trained to implement proper handling procedures and to understand the potential health and physical hazards of this product. Dust respirators are recommended for product handlers likely to come in direct contact with the substance. In addition, LANXESS recommends that workers wear goggles, long-sleeved shirts, long pants and gloves when handling Vulkacit MOZ/LG to minimize skin contact. Organic vapor respirators and engineering or process controls may be necessary to minimize vapor concentrations within operations where the chemical is heated to thermal decomposition.

Consumer Exposure

LANXESS Corporation does not sell this product to the general public. Rubber goods using Vulkacit MOZ/LG as an accelerator retain the substance in encapsulated form in the final product. As a result, persons susceptible to allergic skin reactions may experience “tennis shoe” dermatitis as a result of direct skin contact with shoes, elastic waistbands and other products containing the chemical. Skin irritation is typically temporary.

Short-Term Health Effects

Short-term dermal exposure to Vulkacit MOZ/LG may cause minor irritation to the skin, and susceptible individuals may experience an allergic reaction from direct skin contact, with symptoms of redness, itching, swelling and rash. The chemical is irritating to the eyes with symptoms of reddening, tearing and stinging. Vulkacit MOZ/LG is not expected to be harmful if swallowed.

Long-Term Health Effects

Long-term or repeated contact with Vulkacit MOZ/LG may cause skin sensitization.

Physical Hazards

Vulkacit MOZ/LG is a stable, non-volatile solid at room temperature. Avoid contact with nitrogen oxides and other strong oxidizing agents during processing. Large concentrations of Vulkacit MOZ/LG dust may be explosive. Exposure to heat, open flames and other potential sources of ignition should be avoided.

Potential Environmental Impact

Vulkacit MOZ/LG is not biodegradable but it does break down to biodegradable substances with prolonged exposure to water and/or light. Vulkacit MOZ/LG may pose a potential danger to fish (moderate toxicity), invertebrates (moderate toxicity) and aquatic plants (slight toxicity) prior to degrading. Accumulation in the environment is not 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, Vulkacit MOZ/LG is not expected to pose a significant risk to human health or the environment.

References

Safety Data Sheet (SDS), VULKACIT MOZ/LG, LANXESS Corporation

ToxNet Hazardous Substances Data Bank, U.S. National Library of Medicine, National Institutes of Health and the U.S. Department of Health and Human Services

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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