

Solution Styrene Butadiene Rubber

This document provides a brief description of Solution Styrene Butadiene Rubber (SSBR), as represented by BUNA[®] SL 4525-0, 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 Corporation safety data sheet.

Identification

Product Name:	Solution Styrene Butadiene Rubber (SSBR)
Chemical Name:	Styrene-Butadiene Copolymer
Synonym(s):	SBR

Description

Overview:	Solution Styrene Butadiene Rubber is sold under the trade name, BUNA [®] SL. Solution Styrene Butadiene Rubber is a solid with a faint odor at ambient temperatures.
Uses:	Solution Styrene Butadiene Rubber is a synthetic rubber sold by LANXESS for use as a component in the production of tires and other rubber products.
Properties:	Ignition Temperature: >200°C (>428°F) Solubility in Water: Insoluble in cold water

Potential Human Health Effects

Occupational Exposure

Potential for occupational exposure exists during manufacture, at unloading, storage and staging areas and during operations where Solution Styrene Butadiene Rubber is used in the manufacture of other products. A much lower potential for exposure exists in facilities using the product in closed manufacturing processes by trained personnel.

Employee Training

Workers handling Solution Styrene Butadiene Rubber should be trained to implement proper handling procedures and to understand the potential health and physical hazards of this product. LANXESS recommends long pants, a long-sleeved shirt, suitable protective footwear and gloves be worn when handling Solution Styrene Butadiene Rubber. Workers handling hot material should wear heat-resistant protective gloves that are able to withstand the temperature of the molten product. Safety glasses with side shields should be worn if eye contact is possible. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Thermal processing operations should be ventilated to control gases and fumes given off during processing.

Consumer Exposure

LANXESS Corporation does not sell Solution Styrene Butadiene Rubber to the general public.

Short-Term Health Effects

Skin contact with heated Solution Styrene Butadiene Rubber may cause thermal burns. Prolonged or repeated exposure may cause redness, itching, swelling, burning and possible permanent skin damage.

Long-Term Health Effects

This product contains trace amounts of 1,3-butadiene, a chemical known to the state of California to cause cancer and birth defects or other reproductive harm.

Physical Hazards

Solution Styrene Butadiene Rubber is stable under normal conditions of use. Avoid strong oxidizing agents. May decompose exothermically with possibility of ignition. Heating to decomposition may release carbon dioxide, carbon monoxide and other potentially toxic fumes or gases. Avoid heat, open flames and other potential sources of ignition.

Potential Environmental Impact

No significant effects or critical hazards would be expected from an accidental release of this product 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, BUNA VSL 4526-0 HM Orange is not expected to pose a significant risk to human health or the environment.

References

Safety Data Sheet (SDS), BUNA SL 4525-0, LANXESS Corporation

ToxNet ChemIDplus, U.S. National Library of Medicine

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.