

Polyaspartic Acid, Sodium Salt (PASP)

This document provides a brief description of the aforementioned material, 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

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| Chemical Name: | 2-Butenedioic acid (2Z)-, ammonium salt (1:?), homopolymer, hydrolyzed, sodium salts |
| Synonym(s): | (Z)-2-Butendioic acid ammonium salt, homopolymer, hydrolyzed sodium salts Sodium salts of carboxylic acid |
| CAS Number: | 181828-06-8 |
| Applicable LANXESS Material(s): | Baypure DS 100 solid |

Description

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|-----------------------------|---|-----------------------------|---------|-----------------------|---------------|----------------------|------------------------------|------------|---------|
| Overview: | The polymer is an odorless, granular solid appearing beige or orange at room temperature. | | | | | | | | |
| Uses: | The substance is used in the aforementioned LANXESS material in water treatment applications, pigments, and fillers as a dispersing agent. | | | | | | | | |
| Properties: | <table><tr><td>Solubility in Water:</td><td>Soluble</td></tr><tr><td>Melting Point:</td><td>140°C (284°F)</td></tr><tr><td>Bulk Density:</td><td>830 to 970 kg/m³</td></tr><tr><td>pH:</td><td>8 to 10</td></tr></table> | Solubility in Water: | Soluble | Melting Point: | 140°C (284°F) | Bulk Density: | 830 to 970 kg/m ³ | pH: | 8 to 10 |
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Potential Human Health Effects

Occupational Exposure

Potential for occupational exposure exists during manufacture, and in unloading, storage, staging, and transfer operations at facilities using the listed LANXESS materials in the manufacture of other products. A much lower potential for exposure exists in facilities using the listed materials in closed manufacturing processes by trained personnel.

Employee Training

Workers handling materials containing the organic material should be trained to implement proper handling procedures and to understand the potential health and physical hazards of this product. Process enclosures, explosion-proof local exhaust ventilation or other engineering controls should be used to keep worker exposure below any recommended or statutory limits. The engineering controls also need to keep gas/vapor concentrations below any lower explosive limits. It is recommended that safety glasses with side-shields and permeation resistant gloves, clothing and foot protection be worn. In cases where ventilation is insufficient or airborne concentrations are unknown, a NIOSH approved, air-purifying organic vapor respirator should be worn.

Consumer Exposure

LANXESS Corporation does not sell PASP, nor materials containing PASP, to the general public.

Short-Term Health Effects

No short-term health effects are expected in association with the polyester resin.

Long-Term Health Effects

There are no known long-term effects associated with the organic compound.

Physical Hazards

The polymer is stable under normal conditions of use. Heating materials containing the component may release oxides of carbon and nitrogen. 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 into 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, the polymer is not expected to pose a significant risk to human health or the environment.

References

Safety Data Sheet (SDS), Baypure DS 100 solid G, LANXESS Corporation

ToxPlanet, 2-Butenedioic acid (2Z)-, ammonium salt, homopolymer, hydrolyzed, sodium salt, Haz-Map, December 2017

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.