MIKROFINE® OBSH

MIKROFINE® OBSH is a chemical blowing agent for natural and synthetic sponge rubber, cellular plastic like EVA co-polymers, LDPE and PVC in the processing temperature range of 140-170°C.

PRODUCT INFORMATION

Main constituent: 4, 4’-Oxybis(benzenesulfonyl)hydrazide
CAS Number: [80-51-3]
Mol. Formula: C_{12}H_{14}N_{4}O_{5}S_{2}
Mol. Wt.: 358

Physical form: white to off white powder

Solubility: Soluble in DMSO and DMF. Insoluble in benzene and water. Reacts with ketonic solvents.

Gas composition: Mainly nitrogen

Health, safety & handling information: Relevant information can be found in sheet No. HPLA/MSDS/M/CBA/005

SPECIFIED PROPERTIES

Decomposition temperature (°C) (Open capillary tube method): 153 ± 3

Mesh size (+200 BSS) (% w/w): 0.2 max.

Volatile (% w/w): 0.5 max.

Gas content (ml/gm at STP): 120 ± 5

Ash content (% w/w): 0.5 max.

pH (4% aqueous suspension at 25°C): 7.0 ± 0.5
3 SPECIAL FEATURES

Because of its odorless, non-staining and non-discoloring decomposition residue, MIKROFINE® OBSH can be used in the processing of light colored products.

Since MIKROFINE® OBSH offers excellent electrical properties and its decomposition does not liberate ammonia, it can be safely used for cellular cable insulation.

Alkanolamines and oxidizing agents like peroxides can lower the decomposition temperature of MIKROFINE® OBSH making it useful for special blowing applications at relatively low processing temperatures.

MIKROFINE® OBSH decomposes in an alkaline latex system at steam temperature producing gas and acidic decomposition products. The latter coagulates the latex in the foamed state, thereby providing a unique method for producing expanded rubber products.

4 APPLICATIONS

Mikrofine® OBSH is used:
- In the production of microcellular rubber/EPDM rubber, rigid PVC foam, coaxial cables and crown cork linings.
- For cellular cable insulation.
- For the production of expanded LDPE/EVA foam.
- In small quantities for the control of sink marks during injection moulding of structural foam products.
- To remove excessive residual soda from carpet underlay which may harm floor finishes.
- For continuously extruded closed cell profiles for automotive door seals, low density refrigeration, and air conditioning insulation.
- In EVA shoe midsoles.
- In press cured PVC-NBR floats and athletic padding.
- To get increased whiteness in PVC footwear and PVC foamed leather cloth.

5 DOSAGE

1 - 4 PHR depending on the polymer used and the extent of expansion required.

6 PACKING

MIKROFINE® OBSH is packed in 20 Kg UN approved corrugated cartons with a polythene liner inside or as per customer’s requirement.
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HPL ADDITIVES LTD.
803, Vishal Bhawan, 95 Nehru Place
New Delhi - 110 019, INDIA.
Tel. : +91-11-2643 1522, 2642 1570
Fax : +91-11-2647 4350, 2646 0981
e-mail : hpl@hpl-group.com