



HPL Additives Limited

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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.

1 PRODUCT INFORMATION

Main constituent	:	4, 4'-Oxybis(benzenesulfonylhidrazide) 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

2 SPECIFIED PROPERTIES

Decomposition temperature (°C) (Open capillary tube method)	:	153 ± 3
Mesh size (+200 BSS) (% w/w)	:	0.2 max.
Volatility (% 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

The information given in this document is only a recommendation, believed to be reliable and is given in good faith but without warranty. Our advice does not release users from the obligation of checking its validity. The user should test the product to ascertain the suitability for the intended use. Specified properties mentioned in this document are based on our historical production performance and these properties or the whole document is subject to change without any prior notice, at our sole discretion. We are under no obligation to recall earlier issued documents.

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