

Spec #	HPLA/TDS/M/CBA/05 M300
Version	08
Date	December, 2021



MIKROFINE[®]-OBSH M300

MIKROFINE[®] OBSH M300 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 (benzenesulfonylhydrazide) 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/SDS/M/CBA/05

2. SPECIFIED PROPERTIES

Decomposition Temperature (°C) (Open capillary tube method)	:	153 ± 3
Volatility (%w/w)	:	0.5 Max.
Gas content (ml/gm at STP)	:	120 ± 5
pH (4% aqueous suspension at 25°C)	:	7.0 ± 0.5
Average particle diameter [d 0.5] (micron)	:	7-9
Ash Content (%w/w)	:	1.0 Max.
Colour (Hazen) (10% Solution in DMSO)	:	100 Max.
Mesh size (%w/w) (+200 BSS)	:	0.2 Max.

Spec #	HPLA/TDS/M/CBA/05 M300
Version	08
Date	December, 2021



3. SPECIAL FEATURES

Because of its odorless, non-staining and non-discoloring decomposition residue, MIKROFINE[®]-OBSH M300 can be used in the processing of light colored products.

Since MIKROFINE[®]-OBSH M300 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 M300 making it useful for special blowing applications at relatively low processing temperatures.

MIKROFINE[®]-OBSH M300 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 product.

4. APPLICATIONS

MIKROFINE[®]-OBSH M300 is an activated grade for relatively low temperature foaming agent specifically for sponge based on synthetic rubber which requires fine, uniform, closed cell structure. This is a grade of choice in EPDM based profiles of car door sealing.

Mikrofine[®]-OBSH M300 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.
- 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.

Spec #	HPLA/TDS/M/CBA/05 M300
Version	08
Date	December, 2021



5. DOSAGE

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

6. PACKING

MIKROFINE® OBSH M300 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. 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.

HPL ADDITIVES LIMITED

5th Floor, Block- A, Vatika Mindscapes, 12/3 Main Mathura Road, Faridabad-121003, Haryana, India
Tel: +91-129-2251300 | Fax: +91-129-2251304/05 | Email: hpla@hpladditives.com