

BLOW CHEM PVT. LTD.**TECHNICAL DATA SHEET****MICROCELL OBSH**

MICROCELL 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°C – 170°C

PRODUCT INFORMATION

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| MAIN CONSTITUENT | 4, 4' – Oxybis (benzenesulfonylthrazide) CAS Number {80-51-3} $C_{17}H_{14}N_4O_5S_2$ MOL WT.=358 |
| GAS CONTENT | MAINLY NITROGEN |
| APPEARANCE | OFF WHITE COLOUR |
| MESH SIZE (+200) BSS | 0.2% W/W MAX. |
| MOISTURE CONTENT | 0.5 % W/W MAX. |
| SOLUBILITY | SOLUBLE IN DMSO AND DMF. INSOLUBLE IN BENZENE AND WATER. REACTS WITH KETONIC SOLVENTS. |
| DECOMPOSITION TEMP. (OPEN CAPILLARY TUBE METHOD) | 153 ± 3°C |
| GAS EVALUATION | 120 ± 5 ml/gm @ S.T.P. |
| ASH CONTENT | 0.5 % W/W MAX. |

SPECIAL FEATURES

- ✂ Because of its odorless, non-staining and non-discoloring decomposition residue, MICROCELL OBSH can be used in the processing of light colored products.
- ✂ Since MICROCELL 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 MICROCELL OBSH making it useful for special blowing applications at relatively low processing temperatures.
- ✂ MICROCELL 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.

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APPLICATION

- ✂ In the production of micro cellular 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 quantity for the control of sink during injection molding of structural foam products.
- ✂ To remove excessive residual soda from carpet underlay which many 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 paddings.
- ✂ To get increased whiteness in PVC footwear and PVC foamed leather cloth.

DOSAGE

- ✂ 1 – 4 PHR depending on the polymers used & the extent to expansion required.

PACKING

- ✂ MICROCELL OBSH is packed in 25 Kgs. HDPE bags/ Fiber drums/ UN approved corrugated paper cartons with a polythene liner inside.

STORAGE

Its storage stability is good enough provided it is stored.

- ✂ In a cool and dry place.
- ✂ Away from localized sources of heat.
- ✂ Away from strong alkalis & acids with which it reacts.

FLAMMABILITY

- ✂ MICROCELL OBSH is non-flammable and does not support combustion. Decomposition of MICROCELL OBSH on heating causes evolution of fumes resembling smoke. In case of Fire, use water.

TOXICITY

- ✂ MICROCELL OBSH is of low toxicity by skin contact and is mildly irritating to the eyes, its decomposition residues are also of low toxicity.

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HANDLING

⌘ MICROCELL OBSH is substantially free from handling problems, care should be taken to prevent its contact with skin & eyes. Avoid creating dusty conditions because of possibility of respiratory.

OUR STATEMENT

⌘ The statements made in the above documents are correct to the best of our knowledge and belief. S. S. Blow Chem. Pvt. Ltd., gives no warranty as to their accuracy and will not be responsible for any loss or expenses arising from use of these products

OUR OFFICE

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