

CELOGEN® OB

Technical Data Sheet

4, 4' – Oxybis (benzenesulfonylhrazide) [CAS No.: 80-51-3]

Product 4, 4' – Oxybis (benzenesulfonylhrazide)

Chemical Formula C₁₂H₁₄N₄O₅S₂

Molecular Weight 358

Gas ContentMostly NitrogenAppearanceWhite PowderPurity93.0% minAverage particle size5 - 15 μmHeat Loss0.5% maxDecomposition Temp.158 - 164 ℃

Gas Evolution 125 - 140 ml/gm @ S.T.P.

pH 6 - 8

Solubility Soluble in DMSO and DMF. Insoluble in benzene and water.

APPLICATION:

CELOGEN® OB is an outstanding non-staining, non-discoloring, non-toxic, odorless, nitrogen releasing foaming agent for the production of both cellular rubber and expanded plastics. CELOGEN® OB is a relatively low temperature foaming agent which requires fine, uniform, closed cell structure. Among the latter, PE, PVC, EPOXY, TPR, and PHENOLIC resins are currently expanded on a commercial scale with CELOGEN® OB. CELOGEN® OB can also be used in the production of thermal insulation materials using a blend of synthetic rubber and thermoplastics, NBR-PVC. CELOGEN® OB produces ammonia-free gas by thermal decomposition making it safe to use in cellar cable insulation. Furthermore, CELOGEN® OB has no effect on the cure of rubber or the stability of PVC. CELOGEN® OB is treated with a small amount of calcium stearate to enhance flow ability.

ACTIVATED BY: Very strong activators include treaded urea (Acticell U), triethanolamine and peroxides.

Moderate activators include calcium oxide, calcium stearate, stearic acid, cadmium and lead type vinyl stabilizers. Weak activators include adipic acid, benzoic acid, salicylic acid, citric acid, lead stearate and zinc stearate.

SOLUBILITY: Insoluble in water. Soluble in strong acids and bases.

STORAGE STABILITY: Store in a cool, dry place in closed containers. Keep away from heat, sparks, and

open flames. Separate from combustible materials. Reacts with ketones.

HANDLING PRECAUTIONS: Normal handling precautions should be observed. Minimize dusting. Use good ventilation. Good housekeeping. FLAMMABLE SOLID.

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PACKAGING: 25 KG net; paper box with PE Liner.

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