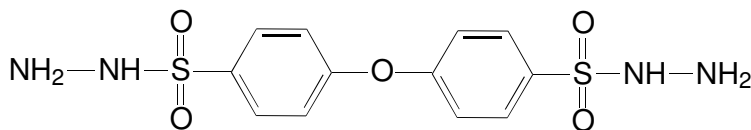


CELOGEN[®] OB

Technical Data Sheet



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

Product	4, 4' – Oxybis (benzenesulfonylthiourea)
Chemical Formula	C ₁₂ H ₁₄ N ₄ O ₅ S ₂
Molecular Weight	358
Gas Content	Mostly Nitrogen
Appearance	White Powder
Purity	93.0% min
Average particle size	5 - 15 µm
Heat Loss	0.5% max
Decomposition Temp.	158 - 164 °C
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 cellular 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 treated 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.**

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