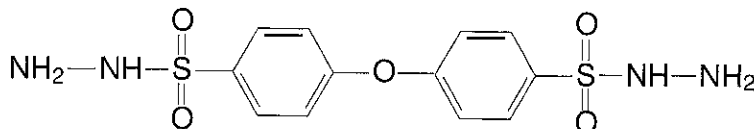


# CELOGEN<sup>®</sup> OT

## Technical Data Sheet

DISTRIBUTED BY  
R.E. CARROLL INC.  
1570 NORTH OLDEN AVENUE  
TRENTON, NJ 08638-3204  
609-695-6211 / 800-257-9365



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

Product	4, 4' - Oxybis (benzenesulfonylhydrazide)
Chemical Formula	C <sub>12</sub> H <sub>14</sub> N <sub>4</sub> O <sub>5</sub> S <sub>2</sub>
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<sup>®</sup> OT is oil treated for low dusting and 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<sup>®</sup> OT 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<sup>®</sup> OT. CELOGEN<sup>®</sup> OT can also be used in the production of thermal insulation materials using a blend of synthetic rubber and thermoplastics, NBR-PVC. CELOGEN<sup>®</sup> OT produces ammonia-free gas by thermal decomposition making it safe to use in cellular cable insulation. Furthermore, CELOGEN<sup>®</sup> OT has no effect on the cure of rubber or the stability of PVC.

**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.**

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



Issued: December 1, 2013  
Rev: 2, 6/16/2014

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## PRODUCT SPECIFICATION

### CELOGEN<sup>®</sup> OT

#### 4, 4' – Oxybis (benzenesulfonylhydrazide)

TEST	MINIMUM	MAXIMUM	TEST METHOD
Decomposition Point, °C	158	164	CC 105
Assay, %	93		ZS
Heat Loss, %	---	0.5	CC 59
Average Particle Diameter, (microns)	5	15	Laser diffraction
Appearance	White Powder		

Oil Treated

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