

Chevron Phillips Chemical Company LP  
10001 Six Pines Drive  
The Woodlands, TX 77380  
800-858-4327  
Technical Service: 832-813-4862

Chevron Phillips Chemicals International N.V.  
Brusselsesteenweg 355  
B-3090 Overijse, Belgium  
+32 (0) 2 689 12 11

Chevron Phillips Chemicals Asia PTE Ltd.  
5 Temasek Boulevard  
05-01 Suntec Tower Five  
Singapore 038985  
+65 6337 9700

## Scentinel<sup>®</sup> N Gas Odorant

Property	Typical Value	Specification	Test Method
Composition, wt%			Chromatography
<i>tert</i> -Butyl Mercaptan	77	75 – 80	
<i>sec</i> -Butyl Mercaptan	2	2 – 4	
Isopropyl Mercaptan	15	13 – 17	
<i>n</i> -Propyl Mercaptan	6	5 – 7	
Ethyl Mercaptan	0.1	≤ 1	
<i>n</i> -Butyl and Isobutyl Mercaptan	0.1	≤ 0.5	
Total Mercaptans	99.6	≥ 99	
Other Components	≤ 1.0	≤ 1.0, with no single component > 0.4	
Distillation Range at 760 mmHg, °F			ASTM D 86
Initial Boiling Point	137	≥ 130	
Dry Point	158	≤ 180	
Cloud Point, °F	< -50	≤ -50	ASTM D 2386 modified
Methanol, wt. %	0.02	≤ 0.05	Chromatography
Ethanol, wt. %	0.02	≤ 0.05	Chromatography
Appearance	Clear with no particulate matter	Clear with no particulate matter	Visual
1/2 Doctor Test	Pass	Pass	ASTM D 235
KOH Insolubles, vol %	0.4	≤ 1	CPChem SLP-1518
Color, APHA	15	≤ 30	ASTM D 1209
Specific Gravity at 60/60 °F	0.811	0.798 – 0.818	ASTM D 4052
<b>Other Properties</b>			
Reid Vapor Pressure at 100 °F, psia	6.8		Literature
Flash Point, °F	< 0		Open Cup, Est.
Sulfur Content, wt %	37		Calculated
Density of Liquid at 60 °F, lb/gal	6.76		ASTM D 4052

Product Number: 1024683

Revised: 11/08/06

Notice: Before using this product, the user is advised and cautioned to make its own determination and assessment of the safety and suitability of the product for the specific use in question and is further advised against relying on the information contained herein as it may relate to any specific use or application. It is the ultimate responsibility of the user to ensure that the product is suited and the information is applicable to the user's specific application. Chevron Phillips Chemical Company LP does not make, and expressly disclaims, all warranties, including warranties of merchantability or fitness for a particular purpose, regardless of whether oral or written, express or implied, or allegedly arising from any usage of any trade or from any course of dealing in connection with the use of the information contained herein or the product itself. The user expressly assumes all risk and liability, whether based in contract, or otherwise, in connection with the use of the information contained herein or the product itself. Further, information contained herein is given without reference to any intellectual property issues, as well as federal, state or local laws which may be encountered in the use thereof. Such questions should be investigated by the user.