

**TECHNICAL DATA SHEET**

11/25/2009

<b>TERPINYL BUTYRATE</b>				
p-Menth-1-en-8-yl butyrate; 1-Methyl-1-(4-methyl-3-cyclohexen-1-yl)ethyl butyrate				
Formula: C <sub>14</sub> H <sub>24</sub> O <sub>2</sub>	FW: 224.34	Kosher: <input checked="" type="checkbox"/>		FCC: <input type="checkbox"/>
Appearance and Color: } Clear oily liquid / Colorless	Part Code: <b>13948</b>			
Density (g/ml) $d_4^{20} = 0.940-0.970$	RI: $n_D^{25} = 1.463-1.468$	Soluble in: <small>Code: FS=Freely, SpS=Sparingly, VSI=Very Slightly, I=Insoluble</small>		
Flash Point: 122°C Method: Closed Cup	Boiling Point: 244-246°C	<input type="checkbox"/> FS Alcohol		
Vapor Press: mm Hg, 20°C log K(ow): 5.32	Acid Number: ≤ 2.0	<input type="checkbox"/> I Propylene Glycol		
		<input type="checkbox"/> FS Essential Oils		
		<input type="checkbox"/> I Water		
<b>CHROMATOGRAPHIC ANALYSIS</b> Purity: ≥ 95.0 %				
GC: 0.53 mm ID x 30 m length, ~ 4.5 ml/min He Carrier Gas. FID DB-5: 100°C (0 min HOLD) to 225°C at 10°C/min. C~1.9,T~2.3				
<b>REFERENCE NUMBERS</b>		Natural/Nature Identical/Artificial: <input type="checkbox"/>		<b>ODOR/TASTE</b>
FEMA/GRAS N°: 3049 Co. Europe N°: 348 C.A.S. N°: 2153-28-8 EINECS N°: 218-445-6 TARIFF N°: 2915.60.1000		<b>NATURAL OCCURRENCE</b> Reported found in essential oils of niaouli, cypress, and Eucalyptus diversicolor		Characteristic, rosemary-like, acid, fruity, balsamic undertone / Bittersweet taste reminiscent of plum
<b>TRANSPORT:</b>				
Hazard:	<b>REGULATION</b>	<b>HAZ. CLASS</b>	<b>PG</b>	<b>UN N°</b>
Point 1 2 3 4	1 R.T.M.D.			
Not Regulated	2 ADR/RID			
Category / other info:	3 I.A.T.A.			
	4 I.M.D.G.			
SAFETY DATA: Available	TSCA:	<b>PACKING CONTAINERS:</b>		
STORAGE: Under Nitrogen	Temperature: ≤ -18°C <input type="checkbox"/>	<input checked="" type="checkbox"/> Epoxy-coated Steel Drums		
	≤ 5°C <input type="checkbox"/>	<input type="checkbox"/> Stainless Steel Drums		
Shelf Life: ~ 24 months	RT <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Aluminum Bottles		
		<input checked="" type="checkbox"/> Glass Bottles		
		<input type="checkbox"/> Plastic / Plastic-lined drums		

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