HOOD CHEMICAL
295 Alliance Road, #14
Milton, Ontario
L9T 4W8
Tel: 905-876-0707
Fax: 905-876-0695
1-800-567-9791

INDUSTRIAL WATER TREATMENT
COMPLETE TREATMENT SERVICES
FOR ALL HEATING & COOLING
WATER CIRCUITS

COMMERCIAL ALCOHOLS INC.

QUALITY ASSURANCE DEPARTMENT

PROPRIETARY DENATURED ETHYL ALCOHOL FORMULATION

CALSOL 100

SPECIFICATIONS

COMPOSITION: 100 litres of ethyl alcohol 94% vol. (min.), 98.00 grams of sucrose octa-acetate, 50.00 grams of sodium metabisulfite, 0.50 grams of F.D. & C blue dye #1 and 250 millilitres of pine oil.

Ethyl alcohol, % by volume	93.7 (min.)
Density, kg/L @ 20 degrees C	0.816 (max.)
Water content, % by volume	5.2 (max.)
Flash point C (Tag closed tester)	16
Miscibility with water, 20 degrees C	Complete

DISTRIBUTED BY: HOOD CHEMICAL
295 ALLIANCE ROAD, #14
MILTON, ON L9T 4W8

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The Glycol People

CALSOL-100

FREEZING POINT DETERMINATION
FOR MIXTURES OF CALSOL 100 AND WATER

% CALSOL 100 BY VOLUME	FREEZING POINT DEGREES C	FREEZING POINT DEGREES F	SPECIFIC GRAVITY AT ROOM TEMPERATURE
50	-29.1	-20.3	0.938
40	-21.6	- 6.7	0.957
30	-13.8	+ 7.0	0.961
25	-10.0	+14.0	0.970
20	-7.0	+19.4	0.973
10	-3.5	+25.0	0.980
0	0	+32.0	1.000

TO CALCULATE THE VOLUME OF FLUID IN PLASTIC PIPE

NOMINAL PIPE DIAMETER (INCHES)	POLYETHYLENE I.G. PER 100' SERIES 160	SERIES 100
¾	2.53	
1	3.89	
1 ¼	6.29	
1 ½	8.44	6.80
2	12.86	

I.E. 2000 FEET SERIES 160 X 1 ¼" DIAMETER PIPE WILL CONTAIN

2000/100 X 6.29 = 125.8 I.G. TOTAL FLUID

FOR A FREEZING POINT PROTECTION OF -11 DEGREES C, SYSTEM SHOULD CONTAIN 25% BY VOLUME CALSOL 100

.25 X 125.8 = 3.5 I.G.

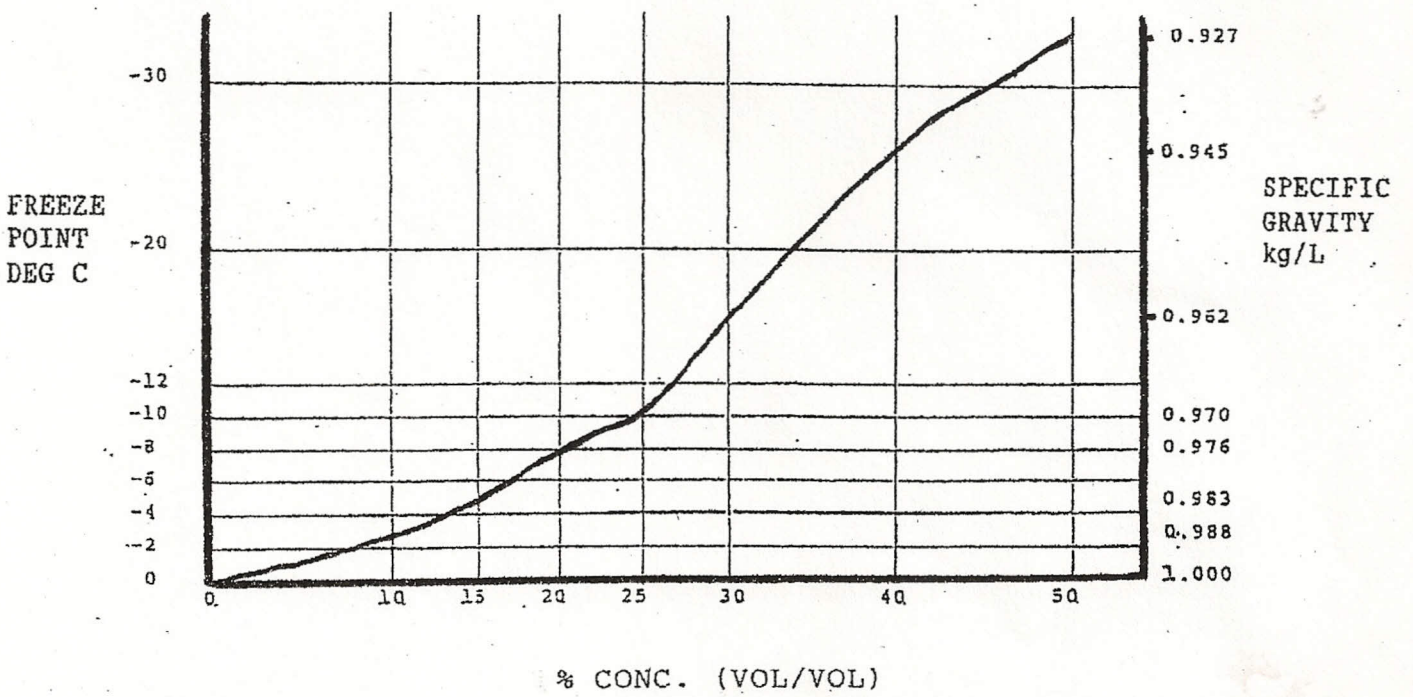
THEREFORE 2000 FEET 1 ¼" PIPE WILL CONTAIN 31.5 I.G. CALSOL & 94.3 I.G. WATER

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CALSOL 100



CALSOL 100 is a proprietary denatured Ethyl Alcohol formulation, of which CEEA has approval from the Ministry of Environment and Ministry of Business and Excise for use in ground source heat pump systems.