



4189-01

Freez-Therm®

INHIBITED ETHYLENE GLYCOL

Heat Transfer Fluid & Freeze-Point Suppressant for the HVACR Industry

FOR PROFESSIONAL USE ONLY

55 Gallons (208.2 L)

DIRECTIONS FOR USE:

This product must be used in accordance to the following directions by HVACR professionals only.

1. Wear protective clothing when handling this product. Do not store in open or unlabeled containers.
2. Clean new or lightly corrode existing system with Nu-Calgon System Cleaner (4370-08) prior to installation of Freez-Therm. Do not use with galvanized steel; avoid contact with oxidizing materials.
3. Extensively corroded systems should be cleaned using inhibited acid such as Season Start Scale Remover, Eco-Lyme, or Liquid Scale Dissolver. Job should be handled by an experienced serviceman. All necessary replacements and repairs should be made.
4. Consult applicable Freez-Therm freeze protection chart and select the lowest expected ambient temperature, then go to a temperature 5°F colder to assure protection.
5. For large systems requiring considerable glycol, determine system volume in gallons and multiply this volume by the desired percentage interpreted from the chart on the right. This will tell you the number of gallons of Freez-Therm required. For smaller systems, consult the chart below.
6. For optimum corrosion protection, a minimum concentration of 33% is recommended.
7. Since the empty container can be hazardous, the empty container must be completely drained, rinsed thoroughly with water and recapped with its original enclosure in place. Dispose of properly. All labeled hazard precautions must be observed. Cutting, drilling, grinding or welding on containers might cause fire, explosion or release harmful fumes. Do not use container to store other products.
8. Observe local waste laws and regulations with the disposal of Freez-Therm.

INITIAL FILL CHART FOR FREEZ-THERM/WATER MIXTURES PROTECTS AGAINST FREEZING TO MINIMUM TEMPERATURES (°F)

COOLING SYSTEM CAPACITY - GALLONS	GALLONS OF ANTI-FREEZE USED																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
6	19	0	-34														
8	22	10	-8	-34													
10	25	16	4	-12	-34	-62											
12		19	10	0	-15	-34	-57										
14		21	15	8	-5	-18	-34	-54									
16		21	17	10	2	-8	-19	-34	-52								
18		24	19	14	7	0	-10	-21	-34	-50							
20		25	20	16	10	4	-3	-12	-22	-34	-48	-62					
22			21	18	13	8	2	-6	-14	-23	-34	-47	-59				
24			22	19	15	10	6	0	-8	-15	-24	-34	-46	-57			
26			23	28	17	13	8	3	-2	-9	-16	-25	-34	-43	-55		
28			24	21	18	15	10	6	1	-5	-11	-18	-25	-34	-42	-54	
30				22	19	15	13	9	4	0	-6	-12	-19	-26	-34	-42	-62



WARNING

Harmful if swallowed. May cause damage to organs through prolonged or repeated exposure.

PREVENTION: Wash face, hands, and any exposed skin thoroughly after handling. Do not eat, drink, or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray.

RESPONSE: IF SWALLOWED: Call POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

FIRST AID - EYES: Rinse with large amounts of water, also under eyelids, for at least 15 minutes. Seek immediate medical attention/advice. **SKIN:** In case of contact, immediately wash skin with soap and water for at least 15 minutes. Take of contaminated clothing. If skin irritation persists, call a physician. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call physician.

KEEP OUT OF REACH OF CHILDREN.

STORAGE: Store locked up. Do not store in open or unlabeled containers.

DISPOSAL: Dispose of contents/container to an approved waste disposal plant.

TYPICAL FREEZE POINTS VERSUS PRODUCT CONCENTRATION

FREEZ-THERM CONCENTRATION (% BY VOLUME)	25	33-1/3	40	50	60
FREEZE PROTECTION MIN. TEMP. (F)	19	0	-12	-34	-62



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Qty 1

B99-704

4189-01 Freez-Therm 55 gal

CHM00375

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1 each

Always use a Nu-Calgon Refractometer (63101) to check ethylene glycol solution freeze protection before leaving job site.

Refer to SDS for additional information

Empty containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean since residue is difficult to remove. Empty drums should be completely drained, properly bunged, and promptly returned to a drum conditioner.



Nu-Calgon
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Customer Service: 800-554-5499
Chemical Emergency: 800-424-9300
www.nucalgon.com
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WARNING: This product can expose you to chemicals including ethylene glycol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov