

FAQs

Heating Chemicals and Anti-Freeze



Q Is there any printed literature for the Hercules heating chemicals & anti-freeze products?

A Yes. LCS955B on Oatey.com features Sludgehammer products, but also contains information on all Hercules heating chemicals.

Q What is the “Triple Protection Package” in Cryo-Tek anti-freeze?

A This is a patented formulation that is combined with virgin propylene glycol to prevent corrosion, prevent scale, and maintain proper pH levels.

Q What are the differences between virgin propylene glycol and reclaimed/recycled propylene glycol?

A Virgin propylene glycol has never been used previously. Some boiler manufacturers state in their warranties that anti-freeze made with virgin propylene glycol is required or the warranty is voided. Recycled propylene glycol is captured and cleaned after use (mainly for de-icing aircraft). It is then considered a lower grade of propylene glycol and may still contain other ingredients even after cleaning. Hercules Cryo-Tek anti-freeze is made only with virgin propylene glycol.

Q What can be measured with Cryo-Tek test strips?

A Each strip has two pads. One pad measures the level of propylene glycol, and the other measures the level of corrosion inhibitor. These levels should be checked as part of routine boiler maintenance.

Q Are there specific products for aluminum boiler systems?

A Yes. Use Cryo-Tek 100AL anti-freeze for boilers with aluminum heat exchangers. Sludgehammer Universal Corrosion Inhibitor and Sludgehammer System Restorer & Noise Reducer is compatible with all metal heat exchangers, including aluminum.

Q How does Haymaker Tankless Water Heater Descaler compare to vinegar?

A The Haymaker solution is 3 times as effective on scale as vinegar, and has no foul odor.

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Q What is the warranty on the pump that comes with the Haymaker Kit?

A The pump has a one year warranty from date of purchase.

Q What are the specs for the pump that come with the Haymaker Kit?

A Max output – 550 GPH Includes pre-filter to prevent debris from re-entering heat exchanger
2.5 GPM @ 8' TDH UL listed
Air filled motor 25' cord

Q Should I dilute Cryo-Tek anti-freeze?

A The answer depends on which Cryo-Tek anti-freeze is being used, and what level of freeze protection is required.

Freeze point: The temperature at which crystals begin to form.

Pumpable: The temperature at which there are sufficient crystals to impede the flow of the product.

Burst protection: The temperature at which pipes burst.

Cryo-tek Original

% Concentration of cryo-tek Original	MIXING RATIO		PROTECTIONS		
	Parts of cryo-tek Original	Parts of Water	Freeze Protection Down to	Pumpable [☆] Down to	Burst Protection Down to
100%	Undiluted	-	-22°F / -30°C	-27°F / -33°C	-80°F / -62°C
90%	9	1	-17°F / -27°C	-22°F / -30°C	-60°F / -51°C
80%	4	1	-5°F / -21°C	-10°F / -23°C	-50°F / -46°C
67%	2	1	+2°F / -17°C	-2°F / -19°C	-20°F / -29°C

Cryo-tek -100

% Concentration of cryo-tek -100	MIXING RATIO		PROTECTIONS		
	Parts of cryo-tek -100	Parts of Water	Freeze Protection Down to	Pumpable [☆] Down to	Burst Protection Down to
100%	undiluted	-	-70°F / -57°C	-80°F / -62°C	-100°F / -73°C
75%	3	1	-21°F / -30°C	-33°F / -36°C	-60°F / -51°C
60%	3	2	0°F / -18°C	-10°F / -23°C	-40°F / -40°C
50%	1	1	+10°F / -12°C	+5°F / -15°C	-20°F / -29°C

Cryo-tek AG

% Concentration of cryo-tek AG	MIXING RATIO		PROTECTIONS		
	Parts of cryo-tek AG	Parts of Water	Freeze Protection Down to	Pumpable [☆] Down to	Burst Protection Down to
70%	7	3	-70°F / -57°C	-80°F / -62°C	-100°F / -73°C
50%	1	1	-29°F / -34°C	-47°F / -44°C	-80°F / -62°C
40%	4	6	-8°F / -22°C	-30°F / -34°C	-60°F / -51°C
35%	3.5	6.5	+2°F / -17°C	-20°F / -29°C	-50°F / -46°C
30%	3	7	+11°F / -11°C	-15°F / -26°C	-20°F / -29°C

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Q Is Cryo-Tek toxic?

A Any chemical has a certain amount of toxicity, but Hercules Cryo-Tek anti-freezes are very low. This is the statement listed on the MSDS sheets that are posted on our website that can be viewed or downloaded.

Emergency and First Aid Procedures: EYE AND SKIN CONTACT: Like with all foreign material, flushing and washing with water is good safety and hygienic practice. INGESTION: Low in toxicity; induce vomiting if large amounts are ingested.

Q Is Cryo-Tek FDA approved?

A No.

Q How do I dispose of Cryo-Tek?

A The following information is copied from our MSDS sheets posted on our website along with all our product submittal sheets.

Steps to be taken in case material is released or spilled: Cover with absorbent material; let soak and sweep up.

Waste Disposal Method: Incinerate or bury (landfill) away from water supplies in accordance with local regulations.

Precautions to be taken in handling and storing: None.

Other Precautions: None.

****Remember to never dump the anti-freeze products into the sewer systems****