



SDS - SAFETY DATA SHEET

SECTION I: PRODUCT IDENTIFICATION

Product name: MASTERS® PRO-TEK 922 INHIBITOR (CONCENTRATED)

Product use: Concentrated corrosion and scale inhibitor for hot water, closed loop heating systems.

Supplier name and address:

G.F. THOMPSON CO. LTD.
620 Steven Court, Unit 11
Newmarket, Ontario
L3Y 6Z2

Manufacturer name and address:

Refer to supplier.

Emergency Tel:

Mon – Fri, 7:30 am to 5:00 pm EST

905-898-2557

800-499-3673 (toll free)

24 hr Emergency Tel:

905-252-6219 or 647-448-2050

SECTION II: HAZARDS IDENTIFICATION

GHS Pictogram:



Signal Word: **Warning!** Irritant (eye and skin)

Hazard Statements:

H316: Causes mild skin irritation (*Skin Corrosion/Irritation: Category 3*).

H320: Causes eye irritation (*Serious Eye Damage/Eye Irritation: Category 2B*).

H303: May be harmful if swallowed (*Acute Toxicity/Oral: Category 5*).

H313: May be harmful in contact with the skin (*Acute toxicity/Dermal: Category 5*)

H413: May cause long lasting effects to aquatic life (*Hazardous to aquatic life, long term hazard: Category 4*)

Precautionary Statements:

P264 + P270: Wash exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product.

P273: Avoid release to the environment.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

P337 + P332 + P313: IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

P301 + P331 + P312: IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a POISON CENTER/doctor/physician if you fell unwell.

P233 + P410 + P403: Keep the container tightly closed in a well ventilated place. Protect from sunlight.

P102: Keep out of reach of children.

P501: Dispose of contents/container in accordance with applicable federal, state and local laws.

Reference: GHS Purple Book-Annex 3

SECTION III: COMPOSITION/INFORMATION ON INGREDIENTS

Substance	CAS #	Amount, %
Propylene glycol	57-55-6	5 - 10
Corrosion Inhibitors*	Blend*	2 - 4
Carboxylate polymer sodium salt	None Listed	<1
Boric Acid	10043-35-3	<1
Potassium hydroxide	1310-58-3	< 1
Blue dye, food grade	-	<0.01
Demineralized water	7732-18-5	Balance

* The specific identities of the corrosion inhibitors is a proprietary trade secret and have thus been withheld.

SECTION IV: FIRST AID MEASURES

4.1. Description of first aid measures

General advice: If there exists a significant potential for exposure, refer to **Section 8** for personal protective equipment. Acute overexposure to Pro-Tek 922 may be irritating to the eyes and skin. Its ingestion may be harmful.

Eye contact : Immediately flush thoroughly with plenty of water while lifting the lower and upper eyelids occasionally. Seek medical attention if eye irritation occurs.

Skin contact : Wash off with soap and plenty of water. Rinse thoroughly with water. Seek medical attention if irritation occurs. Remove and wash contaminated clothing before reuse.

Inhalation : Move to fresh air. If breathing stops, administer artificial respiration. If symptoms persist, call a physician immediately.

Ingestion : If person is conscious, give them large amounts of drinking water or milk to dilute the stomach contents. Do not induce vomiting. Consult physician

4.2. Indication of any immediate medical attention and special treatment needed: None

Note to Physician: Contains propylene glycol and alkaline corrosion inhibitors. Treat as symptoms may be.

SECTION V: FIREFIGHTING MEASURES

NFPA

Flammability 0
Health 1



Stability and reactivity 0
Physical hazard -

- 5.1. **Suitable extinguishing media:** Non-combustible. Use extinguishing media appropriate for the surrounding fire.
- 5.2. **Unsuitable extinguishing media:** Not flammable.
- 5.3. **Special hazards arising from the substance or mixture:** Thermal decomposition may result in smoke which may contain harmful combustion products such as carbon monoxide and carbon dioxide among others
- 5.4. **Advise for firefighters:** Wear self-contained breathing apparatus (SCBA) which are NIOSH/MSHA approved (or equivalent) and full protective gear for firefighting if necessary

SECTION VI: ACCIDENTAL RELEASE MEASURES

- 6.1. **Personal precautions, protective equipment and emergency procedures:** Ensure adequate ventilation. Avoid breathing vapors or mist. Use safety glasses and impervious gloves as a minimum for personal protection. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION for more information.
- 6.2. **Environmental precautions:** Prevent spills from entering sewers, waterways, into soil and groundwater systems. Prevent further leakage if safe to do so. See Section 12, ECOLOGICAL INFORMATION for additional information.
- 6.3. **Methods and material for containment and cleaning:** Dam up the area of accidental release to contain large spills. Mechanically collect spillage in suitable containers for disposal. For small spills, adsorb with inert adsorbent material. For additional information, see Section 13, DISPOSAL CONSIDERATIONS.

SECTION VII: HANDLING AND STORAGE

- 7.1. **Precautions for safe handling:** Observe standard industrial hygiene practices. Proper personal protective equipment required while handling this product. Avoid contact with the eyes and prolonged or repeated skin contact. Avoid breathing mists or vapors. See Section 8, EXPOSURE CONTROLS/PERSONAL PROTECTION.
- 7.2. **Conditions for safe storage, including any incompatibilities:** Store in original container. Keep storage container tightly closed in a well ventilated place. Avoid storing Pro-Tek 922 with strong acids and oxidizers. See Section 10, STABILITY AND REACTIVITY for more specific information.
- 7.3. **Specific end use(s):** Apart from the uses mentioned in Section 1.2, no other specific uses are prescribed.

SECTION VIII: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Component Name	CAS #	OSHA PEL	ACGIH TLV
Potassium Hydroxide	1310-58-3	2 mg/m ³ , Ceiling	2 mg/m ³ , Ceiling
Boric Acid	10043-35-3	total dust): 15 mg/m ³	10 mg/m ³
Carboxylate Polymer, Sodium Salt	None Listed		
Propylene Glycol	57-55-6	Not Established	Not Established
Water	7732-18-5	Not Established	Not Established

8.1. Exposure controls

Eye/face protection : Wear dust and splash proof goggles or safety glasses with side shields.

Skin/body protection : Use gloves chemically resistant to this product such as those made from butyl or nitrile rubber when prolonged contact with material could occur. Wear impervious clothing.

Respiratory protection : Wear suitable personal respiratory protection and protective suit in case of mist, aerosol or spray exposure.

- 8.2. **Engineering controls** : Adequate ventilation should be ensured. Safety shower and eyewash station should be located in the immediate work place.

SECTION XI: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	Liquid	Specific Gravity (H ₂ O=1), g/mL	1.00 – 1.02
Appearance	Clear	Evaporation Rate (H ₂ O = 1)	No data available
Odor	Slight odor	Odor threshold	No data available
pH (as is)	8.4 – 8.8	Vapor Pressure	No data available
pH of a 1% solution	8.0 – 8.5	Vapor Density (Air = 1)	No data available
Boiling Point, 760 mmHg	>100°C (>212°F)	Relative density (Air = 1)	1.04 g/mL
Freezing Point	-3.3°C (26°F)	Partition Coefficient	No data available
Decomposition temperature	No data available	Water Solubility	Complete
Oxidizing properties	No data available	Flammability Limits (solid, gas)	Not applicable to liquids
Flammability/explosive limit	No data available	Autoignition Temperature	No test data available
Viscosity	No data available	Flash Point	No data available

- 9.2. **Other information** : None available

SECTION X: STABILITY AND REACTIVITY

- 10.1. **Reactivity** : No data available
 10.2. **Chemical stability** : Stable under recommended storage and handling conditions
 10.3. **Possibility of hazardous reactions:** Polymerization will not occur
 10.4. **Conditions to avoid** : Exposing this product to elevated temperatures can cause it to decompose generating gases which can cause pressure buildup in closed systems.
 10.5. **Incompatible materials** : Avoid contact with strong oxidizers and strong acids.
 10.6. **Hazardous decomposition products:** None

SECTION XI: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Chemical name	Exposure route	Test specimen	Lethal Dose (LD ₅₀)	Reference
Propylene glycol	Oral	Rat	8000-46000 mg/Kg	Literature
		Mouse	23000-24900 mg/Kg	
		Guinea pig	18000-20000 mg/Kg	
	Skin	Rabbit	Non-irritant	
	Eye	Rabbit	Non-irritant	
Boric Acid	Dermal	Rabbit	> 2000 m/Kg	
	Oral	Rat	3500 – 4100 mg/Kg	
Potassium hydroxide	Oral	Rat	273 mg/Kg	
Pro-Tek 922	Skin	Rat	> 5000 mg/Kg	
	Oral	Rat	> 5000 mg/Kg	
	Eye			
	Respiratory		No test data available	

Chronic effects

Short-term exposure: Irritating to the eyes. May be harmful if ingested.

Long-term exposure: Repeated exposure may cause permanent tissue damage

Symptoms associated with exposure: Redness, itching, burning (from least to the most severe)

Carcinogenicity : No ingredient of this product in levels $\geq 0.1\%$ is identified and listed by OSHA, ACGIH, NTP, IARC or Mexico as a known or suspected carcinogen

Mutagenic, reproductive, developmental, target organ or neurological effects : No information available.

SECTION XII: ECOLOGICAL INFORMATION

Refer to the supplier for Ecological Information

SECTION XIII: DISPOSAL CONSIDERATIONS

Refer to the supplier for Disposal Considerations.

SECTION XIV: TRANSPORT INFORMATION

Refer to the supplier for Transport Information

SECTION XV: REGULATORY INFORMATION

Refer to the supplier for Regulatory Information

SECTION XVI: OTHER INFORMATION

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