

MATERIAL SAFETY DATA SHEET

This Material Safety Data Sheet meets or exceeds the requirements of the Canadian Controlled Product Regulations (WHMIS)

1. Product and Supplier Identification

Product: Pre-Ser-Vor 25-3

Product Use: Preservative

Supplier: CBR Products
1434 Rupert Street,
North Vancouver, BC Canada V7J 1E9
Emergency Telephone: (604) 980-3325

Manufacturer: Perma-Chink Systems, Inc.,
1605 Prosser Road,
Knoxville, Tennessee, USA, 37914

2. Composition

Component	% (w/w)	Exposure Limits
1,2-Propylene Glycol (CAS No 57-55-6)	36-42	None established
Polyethylene Glycol (CAS No 25322-68-3)	36-42	None established
Disodium octaborate (CAS No 12008-91-2)	24-26	None established as part of liquid product. As a solid, 15 mg/m ³ (dust)

3. Hazards Identification

Routes of Entry:

Skin Contact: Minor Eye Contact: Minor Ingestion: Moderate Inhalation: Minor

Acute Health Effects: Inhalation: Vapours and mist are unlikely to cause health effects. Skin Contact: The liquid is a moderate irritant if sealed to the skin by gloves, shoes, or tight clothing. Eye Contact: Undiluted product may cause stinging of the eye causing mild irritation that subsides after a few minutes. Ingestion: Large doses may cause gastro-intestinal irritation and nervous system depression. Effects appear to be more severe in individuals with kidney problems.

Chronic Health Effects: Repeated or long term exposure to skin may cause dermatitis. Lactic acidosis, stupor and seizures have been reported following chronic ingestion. Pre-existing kidney disorders can magnify effects.

4. First Aid Measures

Eye Contact: Quickly and gently blot or brush away excess chemical. Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 10 minutes or until the chemical is removed, while holding the eyelid(s) open. Obtain medical attention immediately.

Skin Contact: Avoid direct contact, wear chemical resistant protective clothing. As quickly as possible, remove contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Quickly and gently blot or brush away excess chemical. Wash gently and thoroughly with water and non-abrasive soap for at least 5 minutes or until chemical is removed. Obtain medical advice immediately. Completely decontaminate clothing, shoes and leather goods before re-use or discard.

Inhalation: Remove source of contamination or move victim to fresh air. If breathing is difficult, oxygen may be beneficial if administered by trained personnel, preferably on a doctor's advice. DO NOT allow the victim to move about unnecessarily. Immediately transport victim to an emergency care facility.

Ingestion: Never give anything by mouth if victim is rapidly losing consciousness. Have victim rinse mouth thoroughly with water. **Do not induce vomiting.** Dilute contents of stomach with 240 to 300 ml of water. If vomiting occurs naturally have victim lean forward to reduce risk of aspiration. Seek immediate medical attention.

5. Fire Fighting Measures

Flash point:	Not flammable
Autoignition temperature:	Not flammable
Lower Explosive Limit:	Not applicable
Upper Explosion Limit:	Not applicable
Sensitivity to Impact:	Not sensitive.
Sensitivity to Static Discharge:	Not sensitive.

Hazardous Combustion Products: Carbon monoxide, and carbon dioxide.

Extinguishing Media: Not flammable. Use extinguishing media suitable for surrounding fire.

Fire Fighting Instructions: Evacuate area and fight fire from a safe distance or a protected location. Approach fire from upwind to avoid hazardous vapours and toxic decomposition products. Do not enter confined fire space without proper personal protection. Use approved positive pressure self-contained breathing apparatus. If possible, isolate materials not yet involved in the fire, and move containers from fire area if this can be done without risk, and protect personnel. Otherwise, fire-exposed containers or tanks should be cooled by application of hose streams and this should begin as soon as possible and should concentrate on any unwetted portions of the container.

6. Accidental Release Measures

Personal Protection: See Section 8 for proper protective equipment to be worn while cleaning an accidental spill.

Environmental Precautions: Prevent product from entering sewers, natural waterways, or confined spaces.

Cleanup Procedures: Restrict access to area until completion of cleanup. Absorb onto sand or other inert absorbent media and shovel into approved closable waste containers for disposal.

7. Handling and Storage

Handling Procedures: Before handling, it is imperative that the personal equipment requirements and personal hygiene measures be followed. Inspect containers for damage or leaks before handling. Unprotected persons should avoid all contact with this product including contaminated equipment. Do not use with incompatible materials such as strong oxidants. Ensure all containers are correctly labeled indicating hazards. Keep container tightly closed when not in use. Wash face and hands thoroughly after handling and before eating, drinking, or using tobacco products.

Storage: Store in cool, dry, well-ventilated area in original container. Do not use container for other purposes. Avoid any contact with moisture away from oxidizing materials.

8. Exposure Controls, Personal Protection

Engineering Controls: If used indoors, ensure adequate ventilation by using local exhaust. Prevent handling methods that will increase airborne vapours.

Respiratory Protection: Under conditions of normal use, there is no need for respiratory protection. If product is misted use a respirator equipped with an organic vapour cartridge. Ensure that the cartridge is replaced often according to the manufacturers recommendations.

Skin Protection: Use chemical protective gloves, coveralls, aprons, overshoes.

Eye and Face Protection: Chemical splash-proof goggles or face shield must be worn at all times.

Footwear: Chemical resistant boots or overshoes.

Other: Eye wash station should be located near work area.

9. Physical and Chemical Properties

Appearance:	Clear liquid	Freezing Point	No data
Odour:	Odourless	Boiling Point:	>369 °C
Odour Threshold:	No data	Critical Temperature:	Not applicable.
pH:	Not applicable	Relative Density:	1.1-1.3
Vapour Pressure:	125 mm Hg@ 37.8°C	Partition Coefficient:	No data (water = 1)
Solubility:	Miscible in water. Insoluble in petroleum products.	Evaporation Rate:	<1, (butyl acetate=1)
Vapour Density:	> 1		

10. Stability and Reactivity

Chemical Stability and Reactivity: Product is normally stable.

Incompatibility: Avoid moisture. Keep away from strong oxidizing materials.

Hazardous Decomposition Products: Carbon monoxide, and carbon dioxide.

Hazardous Polymerization: Will not occur.

11. Toxicological Information

Acute Exposure: Theoretical LD₅₀ (rat/oral) for product exceeds 5000 mg/kg.

Chronic Exposure:	See Section 3.
Exposure Limits:	See Section 2.
Irritancy:	See Section 3.
Sensitization:	Yes. See Section 3.
Carcinogenicity:	No evidence
Teratogenicity:	No evidence
Reproductive toxicity:	Information not available
Mutagenicity:	Information not available.
Synergistic products:	None known.

12. Ecological Information

Environmental toxicity: No data available.

Biodegradability: When released into the environment, this product is expected to biodegrade.

13. Disposal Considerations

Canadian Environmental Protection Act: All ingredients are listed on the DSL. Dispose according to all local, provincial and federal requirements.

14. Transport Information

Canadian Transportation of Dangerous Goods Regulations: Not regulated

International Air Transport Association (IATA): Not regulated

International Maritime Organization (IMO): Not regulated

15. Regulatory Information

Canadian Federal Regulations:

Canadian Environmental Protection Act: All ingredients are on the Domestic Substances List.

WHMIS Classification: D2B

16. Other Information

Preparation Date: October 16, 2000

Prepared by: Kel-Ex Agencies Ltd., P.O. Box 86643, North Vancouver, BC, Canada, V7L 4L2

Comments: This Material Safety Data Sheet was prepared using information provided by Canadian Building Restoration Products, Inc., and CCINFO.

Revisions: None