

SECTION 1- PRODUCT IDENTIFICATION

PRODUCT NAME	:	PROTEX COOLING SYSTEM CLEANER 94600
SYNONYMS	:	Product is a mixture: No synonyms are available.
PRODUCT USE	:	Moderately Alkaline Material
SUPPLIER		BARDAHL MANUFACTURING CORP.
SUPPLIER'S ADDRESS	:	1400 NW 52 ND ST, SEATTLE, WA 98107 (888) 227-3245
EMERGENCY RESPONSE PHONE	:	PERS: 1-800-633-8253
NUMBER		

SECTION 2 – HAZARD IDENTIFICATION

CLASSIFICATION OF THE SUBSTA GHS U.S. – CLASSIFICATION	-	OR MIXTURE H302 H315 H319	Harmful if swallowed. Causes skin irritation Causes serious eye irr	
LABEL ELEMENTS	:	GHS – US H	AZARD PICTOGRAMS	The product is classified and labeled according to the Globally Harmonized System (GHS).
HAZARD PICTOGRAMS	:			
SIGNAL WORD	:	WARNING		
HAZARD STATEMENTS (GHS-US)	:	H302	Harmful if swallowed.	
	:	H315	Causes skin irritation.	
	:	H319	Causes serious eye irr	itation.
PRECAUTIONARY STATEMENTS (GHS-US)	:	P101	If medical advice is ne	eeded, have product container or label at hand.
	:	P102	Keep out of reach of o	children.
	:	P103	Read label before use	
	:	P264	Wash skin and contar	ninated clothing thoroughly after handling.
	:	P270		moke when using this product.
	:	P280	Wear suitable protect protection/face prote	tive gloves/protective clothing/eye
	:	P301+	IF SWALLOWED: Call a	a POISON CENTER or doctor/physician if you feel
		P312	unwell.	the stand of some such as the
	:	P302+P352 P305+351+		ith plenty of soap and water. iously with water for several minutes. Remove
	•	P338		sent and easy to do. Continue rinsing.
	:	P332+P313	-	s: Get medical advice/attention.
	:	P337+P313		ts: Get medical advice/attention.
	:	P501		container in accordance with
			•	al/international regulations
OSHA HAZARDS TARGET ORGANS	:	Not applicab Not applicab		

CLASSIFICATION SYSTEM NFPA RATINGS (SCALE 0-4)

: NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme.

HMIS RATINGS (SCALE 0-4)

Health = 2, Fire = 0, Reactivity = 0
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SECTION 3 – COMPOSITON/INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERISTIC DESCRIPTION

: Mixtures

: Mixture of the substances listed below with nonhazardous additions.

COMPONENT	PERCENT	CAS #	EC #	GHS CLASS
Isopropanol (Isopropyl alcohol)	5-10	67-63-0	200-661-7	Eye Irrit Cat 2, Flam Liq Cat 2 STOT SE Cat 3
Tetrapotassium Pyrophosphate	1-5	7320-34-5	230-785-7	Eye Irrit Cat 2
Methyl-oxirane polymer with oxirane	0.1-1.0	9003-11-6	N/A	No need for classification according to GHS criteria for this product.

Irrit = Irritation, Cor = Corrosive, Dam = Damage, Cat = Category, Tox = Toxic, STOT = Specific Target Organ Toxicity.

SECTION 4 – FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

GENERAL	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice. Show the label where possible.
EYE CONTACT	: Immediately flush eyes with water for at least 15 minutes. Hold eyelids open to ensure adequate flushing. Remove contact lenses, if present and easy to do so. Continue rinsing. If irritation persists, get immediate medical attention.
SKIN CONTACT	: Remove contaminated clothing and shoes. Wash affected skin area with soap and water. If irritation persists, get immediate medical attention.
SWALLOWING (INGESTION)	: If ingested, dilute swallowed material by drinking water. DO NOT INDUCE VOMITING. If vomiting occurs spontaneously, keep airway clear. Give more water when vomiting stops. Never give anything by mouth to an unconscious person. Get immediate medical attention.
INHALATION OTHER INSTRUCTIONS	 Remove to fresh air. Get immediate medical attention. Rescue personnel must wear appropriate protective equipment during removal of victims from contaminated areas. Treat symptomatically and supportively.

SECTION 5 – FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE FIGHTERS	 Dry chemical, foam, water or carbon dioxide. In the event of a fire, wear a NIOSH (USA) or CEN (EU) approved, positive pressure, self-contained breathing apparatus (SCUBA) and full protective clothing. Evacuate all non-essential personnel from the danger area.
UNUSUAL FIRE AND EXPLOSION HAZARDS	: No further relevant information is available.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS,	:	Restrict access to keep out unauthorized or unprotected personnel. Wear protective
PROTECTIVE EQUIPMENT &		equipment. Avoid inhalation and direct contact.

EMERGENCY PROCEDURES		
ENVIRONMENTAL PROCEDURES	:	Keep spilled material away from sewage/drainage systems and waterways.
METHODS AND MATERIALS FOR	:	All clean-up personnel must be properly trained. Confine the spill and remove
CONTAINMENT AND CLEAN-UP		incompatible materials and ignition sources. Ensure adequate ventilation. Secure the
		source of the leak if conditions are safe. Neutralize spill and collect using an
		appropriate absorbent material such as clay or vermiculite. Place waste in an
		appropriate container for disposal. Use care during clean-up to avoid exposure to
		the material and injury from broken containers.

SECTION 7 – HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING	:	Use with adequate ventilation. Wear proper protective equipment. Do not mix with water or acids without proper dilution and agitation to prevent a potentially violent reaction.
CONDITIONS FOR SAFE STORAGE	:	Store in closed, properly labeled containers. Protect containers from heat, physical damage, ignition sources and incompatible materials. Have emergency equipment for fires and spills readily available.



SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

TLV (THRESHOLD LIMIT VALUE)

: The TLV in section in section III is the ACGIH/TLV-TWA (threshold limit value/time weighted average concentration for an eight hour work day). The STEL is the short term exposure limit and the (Ceil) is the ceiling limit.

COMPONENT	OSHA PEL – TWA	ACGIH – TLV	ACGIH – STEL
Isopropanol (Isopropyl alcohol)	400 ppm	200 ppm	400 ppm
Tetrapotassium Pyrophosphate	Not Established	Not Established	Not Established
Methyl-oxirane polymer with oxirane	Not Established	Not Established	Not Established

EYE PROTECTION SKIN PROTECTION	 Wear chemical splash goggles or face shield. Minimize contact with product. Wear chemical resistant coveralls, boots, gloves, apron and/or suitable long-sleeved clothing.
RESPIRATORY PROTECTION	: In case of brief exposure use respiratory filter device. In case of intensive or longer exposure, use respiratory protective device that is independent of circulating air.
VENTILATION ADDITIONAL MEASURES	 Ensure adequate ventilation. Emergency eyewash and safety shower facilities should be available in the immediate work area.
REQUIRED WORK/HYGIENE	: Wash hands thoroughly after handling. Keep away from all food stuffs, beverages and feed. Do not eat, drink or smoke in work area.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	: Clear liquid with mild odor.
ODOR	: Mild odor
ODOR THRESHOLD	: Not available
PH	: 10.5 + 0.5 As ls

MELTING POINT/FREEZING	:	Not available
POINT		
BOILING POINT	:	Approx. 212° F.
FLASH POINT	:	Non flammable, non combustible
EVAPORATION RATE	:	Not available
FLAMMABILITY	:	Non flammable-Non combustible
LOWER FLAMMABILITY LIMIT	:	Not available
UPPER FLAMMABILITY LIMIT	:	Not available
VAPOR PRESSURE	:	Not available
VAPOR DENSITY (AIR=1)	:	Not available
RELATIVE DESNITY	:	1.025
SOLUBILITY IN WATER	:	Soluble in water
PARTITION COEFFICIENT n-	:	Not available
OCTANOL/WATER		
AUTOIGNITION TEMPERATURE	:	Not available
DECOMPOSITION	:	Not available
TEMPERATURE		

SECTION 10 – STABILITY AND REACTIVITY

STABILITY HAZARDOUS CONDITONS TO AVOID	Stable under recommended storage conditions. No decomposition if used according to specifications
INCOMPATIBLE MATERIALS HAZARDOUS DECOMPOSITION PRODUCTS	Keep away from strong acids. No dangerous decomposition products known.

SECTION 11 – TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION ACUTE TOXICITY	:	Isopropanol (Isopropyl Alcohol) LD50 Oral (rat): 5045 mg/kg. LD50 Dermal (rabbit): 12,800 mg/kg. LC50 Inhalation (rat) 8hr: 16,000 mg/kg.
OTHER INFORMATION EYES	:	Produces irritation, characterized by a burning sensation, redness, tearing, inflammation, and possible corneal injury. May cause transient corneal injury
OTHER INFORMATION INGESTION	:	Causes gastrointestinal irritation with nausea, vomiting and diarrhea. May cause kidney damage. May cause central nervous system depression, characterized by excitement, followed by headache, dizziness, drowsiness, and nausea.
OTHER INFORMATION INHALATION	:	Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma. May cause narcotic effects in high concentration. Causes upper respiratory tract irritation. Inhalation of vapors may cause drowsiness and dizziness.
OTHER INFORMATION SKIN	:	May cause irritation with pain and stinging, especially if the skin is abraded. Isopropanol has a low potential to cause allergic skin reactions; however, rare cases of allergic contact dermatitis have been reported.
STOT SINGLE EXPSOSURE CARCINOGENICITY	:	Inhalation - May cause drowsiness or dizziness Central Nervous System. IARC: Group 3: Not classifiable as to its carcinogenicity to humans. No component of this product, present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH, NTP or OSHA.
TOXICOLOGICAL INFORMATION ACUTE TOXICITY	:	Tetrapotassium Pyrophosphate Oral - rat LD50: > 2980 mg/kg; slightly toxic

Dermal - rabbit LD50: > 7940 mg/kg; practically nontoxic Eye Irritation - rabbit: 11.1/110.0; moderately irritating Skin Irritation - rabbit: 0.5/8.0 (24-hr exposure); practically nonirritating.

TOXICOLOGICAL INFORMATION	:	Methyl-oxirane polymer with oxirane
ACUTE ORAL TOXICITY	:	LD50 Oral (rat): > 2000 mg/kg, LD50 Dermal (rabbit): 10,200 mg/kg
SKIN AND EYE IRRITATION	:	Draize Test: Eyes: Non irritant, Skin: Non irritant.
SENSITISATION	:	Skin sensitizing effects were not observed in animal studies.
SYMPTOMS OF EXPOSURE	:	No significant symptoms are expected due to the non-classification of the product.

SECTION 12 – ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION	:	Isopropanol
ACUTE FISH TOXICITY	:	LC50 / 96 hr: Pimephales promelas: 9,640 mg/L.
ΤΟΧΙΟΙΤΥ ΤΟ DAPHNIA	:	EC50 / 24 h / Water Flea - 5,102 mg/L.
TOXICITY TO PLANTS	:	EC50 / 72 hours Desmodesmus subspicatus > 2,000 mg/L.
MOBILITY	:	This material is expected to have very high mobility in soil. It does not absorb to
		most soil types.
PERSISTENCE AND	:	No data available.
DEGRADABILITY		
BIOACCUMULATIVE POTENTIAL	:	No data available.
		- -
ECOLOGICAL INFORMATION	:	Tetrapotassium Pyrophosphate
ECOTOXICITY	:	48-hr EC50 Daphnia magna: > 100 mg/l, Practically Nontoxic
		96-hr LC50 Mysid Shrimp > 100 mg/l, Practically Nontoxic
		96-hr LC50 Rainbow trout: > 100 mg/l, Practically Nontoxic.
ENVIRONMENTAL FATE	:	Phosphates: Inorganic phosphates, including this product, at high concentrations in the environment have the potential to cause eutrophication in aquatic systems. This condition is characterized by excessive algal growth, and subsequent decreases in oxygen levels. In general, proper use and disposal of this product should pose no adverse ecological risk.
ECOLOGICAL INFORMATION	:	Methyl-oxirane polymer with oxirane (25R2)
ECOTOXICITY	:	Toxicity to fish: LC50 (96 h) 105 mg/l, Oncorhynchus mykiss
		Aquatic invertebrates: EC50 (48 h) 1,033 mg/l, Daphnia magna
		Aquatic plants: EC50 (72 h) 370 mg/l, algae
PERSISTENCE AND BIODEGRADABILITY	:	Assessment: Readily biodegradable (according to OECD criteria)
MOBILITY	:	The substance will not evaporate into the atmosphere from the water surface. Adsorption to solid soil phase is possible.

SECTION 13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL
 This product must be disposed of in accordance with Federal, state and local environmental regulations. Discarded materials may be considered hazardous waste due to pH/corrosivity. It is the responsibility of the product user to determine at the time of disposal whether a material containing, or derived from this product, should be classified as a hazardous waste.

SECTION 14 – TRANSPORTATION INFORMATION

DOT/IMDG/ IATA PROPER	:	Not Hazardous
SHIPPING NAME		
HAZARD CLASS AND LABEL	:	Not Applicable.
UN NUMBER	:	Not Applicable.
PACKAGING GROUP	:	Not Applicable.
EPA REPORTABLE QUANTITY	:	Not Applicable.
(RQ)		
MARINE POLLUTANT	:	Not listed.
EMERGENCY RESPONSE GUIDE	:	Not Applicable.

SECTION 15 – REGULATORY INFORMATION

	INFORMATION: See Section 2 for GHS Hazard Information.	
U.S. FEDERAL REGULATORY INFC LISTED CARCINOGEN	ION: Not listed.	
TSCA STATUS	The ingredients of this product are listed in TSCA inventory (40CFR 710.)	
SARA SECTION 302	No chemicals in this material are subject to the reporting requirements of SAR III, Section 302.	A Title
SARA SECTION 312	No chemicals in this material are subject to the reporting requirements of SAR III, Section 312.	ለ Title
SARA SECTION 313	This material does not contain any chemical components with known CAS num that exceed the threshold (De Minimis) reporting levels established by SARA Times Section 313.	
NFPA HEALTH	2	
NFPA FLAMMABILITY	0	
NFPA REACTIVITY	0	
EUROPEAN UNION REGULATORY	RMATION:	
EC CLASSIFICATION	Non Hazardous	
DSD/DPD RISK (R) PHRASES	R22: Harmful is swallowed.	
	R36/38: Irritating to eyes and skin.	
DSD/DPD SAFETY (S) PHRASES	S1/2: Keep locked up and out of reach of children.	
	S24/25: Avoid contact with eyes and skin.	
	S26: In case of contact with eyes, rinse immediately with	
	plenty of water and seek medical advice.	
	S36/S37/39: Wear suitable protective clothing, gloves and	
	eye/face protection.	
	S45: In case of accidents or if you feel unwell, seek medical	
	advice immediately. Show label where possible. S61: Avoid release to the environment.	
	S61: Avoid release to the environment.	
	S64: If swallowed, rinse mouth with water if victim is	
	conscious.	
DSD/DPD HAZARD SYMBOL	Xi: Irritant	

CANADIAN REGULATORY INFORMATION:

WHMIS CATEGORY

:	D2B: Materials that cause other toxic effects (TOXIC).
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(DSL) INGREDIENT DISCLOSURE LIST : Listed

	SECTION 16 – OTHER INFORMATION
DISCLAIMER	: The information contained herein has been compiled from sources believed to be realiable and accurate to the best of our knowledge at this date. It is provided without warranty, expressed or implied, as to the results of use of this information or to the product to which it relates. Bardahl Corp. assumes no responsibility for injury to any person or property resulting from any use of the material. Each user assumes the risk in their use of this product and should review the data and recommendations in the specific context of their intended use.
CERCLA	: Comprehensive Environmental Response, Compensation, and Liability Act.
EINECS	: European Inventory of Existing Commercial Chemical Substances
IMDG	: International Maritime Code for Dangerous Goods
IARC	: International Agency for Research on Cancer
ΙΑΤΑ	: International Air Transportation Association
ACGIH	: American Conference of Governmental Industrial Hygienists
NFPA	: National Fire Protection Association (USA)
NTP	: National Toxicology Program
SARA	: Superfund Amendments and Reauthorization Act
TSCA	: Toxic Substances Control Act
HMIS	: Hazardous Materials Identification System (USA)
WHMIS	: Workplace Hazardous Materials Information System
LC50	: Lethal concentration, 50 percent
LD50	: Lethal dose, 50 percent
STOT	: Systemic Target Organ Toxicity
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