Kaivac, Incorporated

401 S. Third Street Hamilton, OH 45011

MATERIAL SAFETY DATA SHEET – KaiBOSH

Section 1: Product & Company Identification

Trade Name:	KaiBOSH
EPA Number	10324-93
Product Class:	Quaternary Ammonium Compound
Product Use:	Disinfectant/Sanitizer
Manufacturer:	Kaivac, Incorporated
	401 S. Third Street
	Hamilton, OH 45011
Telephone	24 hr. Emergency Assistance: Chemtrec 1-800-535-5053
Numbers:	Product or Company Information: 1-800-287-1136 (Mon – Fri)

Section 2: Composition/Information on Ingredients

CAS #	Wt. %
68391-01-5	2 - 3
68956-79-6	2 - 3
64-17-5	<0.5
	68391-01-5 68956-79-6

Section 3: Hazards Identification

	Emergency OverviewClear, colorless to yellow colored liquid. May cause irritation or burns to the eyes, a gastrointestinal tract, and respiratory system.	skin,
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Potential Health Effects:

- Skin: Causes irritation and/or corrosive burns. Brief exposures may cause irritation and defatting of the skin.
- Eyes:
 Causes irritation and/or burns and may result in permanent injury to eyes including blindness.

 Inhalation:
 Mists and vapors can irritate the throat and respiratory tract. High vapor concentrations may cause central nervous system effects. Symptoms may include headaches, dizziness, drowsiness and death.

 Innaction:
 Although of moderate to low toxicity ingestion can eque gentralization include headaches.
- **Ingestion:** Although of moderate to low toxicity, ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea, and death.

Chronic: None known

Section 4: First Aid Measures

Eyes:	Immediately flush eyes with water for 15-20 minutes, while holding eyelids open. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Seek medical attention at once.
Skin or	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a
Clothing:	poison control center or doctor for treatment advice.
Inhalation:	If symptoms are experienced, move victim to fresh air. If person is not breathing, call 911 or an
	ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control
	center or doctor for further treatment advice.

Ingestion: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Note to Probable mucosal damage may contraindicate the use of gastric lavage.

Physician:

Section 5: Fire Fighting Measures

Flash Point: Upper & Lower Flame Limits	>200°F (>105°C) - Pensky Martin Closed Cup Not determined
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Fire Fighting Equipment &		full protective clothing including sed containers with spray.	sen contained breathing		
Hazardous Combust			or fumes may be released during a fire.		
Products: Unusual Fire Explosi	on Combustion products are	e toxic			
Hazards					
Section 6: Accidental R	elease Measures				
Spill and Leak Procedur					
Emergency Action:					
Spill Cleanup:	Spill Cleanup: of low areas where vapors may accumulate. Ventilate closed spaces before entering. All equipment used when handling the product mu				
	grounded. Floor will be slipper	y. Do not touch or walk through s	spilled material. Stop leak if you can		
			reduce vapors. Prevent entry into cover with dry earth, sand or other		
			lean non-sparking tools to collect		
	absorbed material.				
Large Spills:	Dike far ahead of liquid spill for foaming. Water may not preve		nay reduce vapor but will increase		
Section 7: Handling & S					
Handling Procedures		nd eves. Use good personal hyd	iene practices. Wash hands before		
indinaning i rocodulot			oroughly after work using soap and		
	water.	water.			
Storage Procedures:		Keep the container tightly closed and in a cool, well-ventilated place. Keep from freezing. Do not handle or store near an open flame, heat or other sources of ignition. Prevent			
		electrostatic charge buildup by using common bonding and grounding techniques.			
Section & Exposure Co	ntrols/Personal Protection				
DECTION O. EXPOSUIE CO					
		exhaust ventilation (explosion p	roof) to maintain worker exposure		
Engineering Controls	 Provide adequate local e below exposure limits. 	exhaust ventilation (explosion p	roof) to maintain worker exposure		
Engineering Controls Personal Protective Eq	S: Provide adequate local e below exposure limits. uipment:				
Engineering Controls Personal Protective Eq Eyes/Face:	s: Provide adequate local e below exposure limits. uipment: When handling concentrate, we	ar chemical goggles. Use a face	e shield if splashing is possible.		
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Pour Point: No	ot determined				
pH : 11	11.5 <u>+</u> 0.3				
Appearance and Odor: Cl				odor.	
Section 10: Stability & Reactiv	ity				
Chemical Stability:	Material	is stable.			
Conditions to Avoid:	Keep away from heat and strong oxidizing agents.				
Incompatibilities:	Strong oxidizing agents (may result in fire), reducing agents.				
Hazardous Decomposition:	•				
Hazardous Polymerization: Will not occur.					
Section 11: Toxicological Infor	mation				
Carcinogenicity					
Acute Oral LD50		g/kg male and fe			
Acute Dermal LD50 Primary Skin	> 2000 n Corrosiv	ng/kg male and fe	emale rabbits.		
Primary Eye	Corrosiv				
Chemicals Ingredients Listed			inogene		
Ingredient		OSHA		NTP	IARC
No ingredients listed in this se	ection.				
Section 12: Ecological Informa	tion				
		able for this prod	uct		
Section 13: Disposal Consider Disposal Instructions	ations				
accordance with the regulations of 40 CFR 262, 263, 264, and 268. Additionally, the discarding or disposal of this material may be further regulated by state, regional, or local regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. The transportation, storage, treatment and disposal of this waste material must be conducted in compliance with all applicable Federal, state, and local regulations.					
Section 14: Transport Informat	tion				
DOT Hazard ClassNot regulatedDOT Proper Shipping NameNot applicable					
Section 15: Regulatory Information	ation				
TSCA Status While all ingredients are listed on the TSCA Chemical Inventory, this product is regulated as a pesticide under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) and not subject to the TSCA Inventory rules for FIFRA uses.					
<u>Other Chemical Inventories</u> All components of this product are listed on the following inventories: Australia, Canada (DSL), European Union, China, and Philippines. One or more ingredients not found on inventories of Japan and Korea.					
<u>CERCL/SARA</u> SARA Title III, Sections 311/3 inclusion of the following compo Classification of this product	onents of this	material in one o			
SARA Title 313 – This act requent the threshold reporting quantities the threshold reporting quantities the threshold reporting quantities the threshold reporting the thresho					ponents of this material if
Chemical Name	Maximum				
No ingredients listed in this se			Concentration		
Reportable Quantities/Threst	<u>.</u>	a Quantitica: OF	DCI A requires -	otification of the N	National Poppage

Reportable Quantities/Threshold Planning Quantities: CERCLA requires notification of the National Response

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Contor (Tolonhono 1 000 404 0000) in th	a quant of a relaced of quantities of th	a fallouring hazardaya matariala			
Center (Telephone 1-800-424-8802) in the					
contained in this product, if the release is					
requires emergency planning, including a					
material, based upon the Threshold Planning Quantities (TPQs) and/or release of Reportable Quantities.					
Chemical Name No ingredients listed in this section.	Reportable Quantity (RQ)	Threshold Planning Quantity (TPQ)			
State & Provincial Right to Know & Sele	cted Regulatory Lists				
The following ingredients appear on various		ornia's Proposition 65 List			
	Chemical Name State List				
	Benzyl Chloride (trace < 10 ppm) AZ, CA, CAP65C, CT, FL, ID, MA, MN, NJ, PA, RI				
	AZ, CA, CAP65R, CT, FL, ID, MA, MN				
AZ – Arizona Ambient Air Quality Guideli		oxic Air Contaminant - Carcinogenic			
CT – Connecticut Hazardous Air Pollutar		chusetts Right to Know List			
CA – California Director's List of Hazardo		sota Hazardous Substances List			
CA65C – California Prop 65 Carcinogen		rsey Right to Know List			
CA65R – California Prop 65 Reproductiv		/Ivania Right to Know List			
FL – Florida Substances List		sland Hazardous Substances List			
ID – Idaho Non-carcinogen Toxic Air Pol	utants				
	ulations and the MSDS contains all th	nce with hazard criteria of the Controlled ne information required by the Controlled			
Section 16: Other Information					
Current Issue Date:	June, 2007				
Previous Issue Date:	December, 2005				
Changes from Previous Issue Date:	New Format, revised language, revi	sed NEPA rating			
-		sea ni i Arating.			
0	FPA				
Health 3 3					
Flammability 1 1					
Reactivity 0 0					
PPE X					
Disclaimer					
Disclaimer: Nothing contained herein grants or extends a license, express or implied, in connection with patents, issued or pending, of the manufacturer or others. The information contained herein is based on the manufacturer's own study and the works of others. The manufacturer makes no warranties, expressed or implied, as to the accuracy, completeness, or adequacy of the information contained herein. The manufacturer shall not be held liable (regardless of fault) to the vendee's employees, or anyone for any direct, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy or furnishing of such information.					
The seller makes no warranty expressed or implied concerning the accuracy or any results to be obtained from the use of any information and no warranty expressed or implied concerning the use of the products. The buyer assumes all risks of the use and/or handling.					