Material Safety Data Sheet - KaiSan II

Kaivac, Incorporated

401 S. Third Street Hamilton, OH 45011

MATERIAL SAFETY DATA SHEET - KaiSan II

Section 1: Product & Company Identification

Trade Name: KaiSan II EPA Number 10324-154

Product Class: Quaternary Ammonium Compound

Product Use: Disinfectant/Sanitizer
Manufacturer: Kaivac, Incorporated
401 S. Third Street

401 S. Third Street Hamilton, OH 45011

Telephone 24 hr. Emergency Assistance: Chemtrec 1-800-424-9300 or 1-703-527-3887

Numbers: Product or Company Information: 1-800-287-1136 (Mon – Fri)

Section 2: Composition/Information on Ingredients

Ingredient	CAS#	Wt. %
Alkyl dimethyl benzyl ammonium chloride (C ₁₂₋₁₆)	68424-85-1	1.0-2.0
Didecyl dimethyl ammonium chloride	7173-51-5	2.0-3.0
Ethanol	64-17-5	0.5-1.0

Section 3: Hazards Identification

EmergencyOverview
Clear, colorless to straw colored liquid. Corrosive to the eyes, skin, gastrointestinal tract, and respiratory system.

Potential Health Effects:

Skin: Causes corrosive burns. Brief exposures may cause irritation and defatting of the skin. Exposures

not promptly washed off may lead to toxic effects similar to ingestion. Harmful if absorbed through

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, and drowsiness.

Harmful if inhaled.

Ingestion: Ingestion can cause gastrointestinal irritation, swelling of the larynx, difficulty in breathing, circulatory

shock, convulsions and possibly death.

Chronic: Ingestion of ethanol by pregnant women can cause reproductive toxicity to the fetus.

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 Clothing: 15-20 minutes. Call a 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: None when heated to 105°C – Tag Closed Cup

Upper & Lower Flame Not determined

Limits

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Extinguishing Media: Dry chemical, foam, carbon dioxide, water fog or any other agent suitable for surrounding fire.

Fire Fighting Firefighters should wear full protective clothing including self-contained breathing

Equipment & apparatus. Cool fire exposed containers with spray.

Instructions:

Hazardous Combustion

Irritating and toxic gases or fumes may be released during a fire.

Products:

Unusual Fire Explosion Combustion products are toxic.

Hazards

Section 6: Accidental Release Measures

Spill and Leak Procedures

Isolate spill or leak area immediately. Keep unauthorized personnel away. Stay upwind. Keep out **Emergency Action:**

of low areas where vapors may accumulate. Eliminate all ignition sources (no smoking, flares,

sparks or flames in immediate area).

Spill Cleanup: Ventilate closed spaces before entering. All equipment used when handling the product must be

grounded. Floor will be slippery. Do not touch or walk through spilled material. Stop leak if you can do it without risk.. Prevent entry into waterways, sewers, basements or confined areas. Absorb or

cover with dry earth, sand or other non-combustible material and transfer to containers.

Large Spills: Dike far ahead of liquid spill for later disposal. Pump into containers for disposal.

Section 7: Handling & Storage

Handling Procedures: Avoid contact with skin and eyes. Use good personal hygiene practices. Wash hands before

eating, drinking, smoking, or using toilet facilities. Wash thoroughly after work using soap and

water.

Keep the container tightly closed and in a cool, well-ventilated place. Keep from freezing. Do **Storage Procedures:**

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 8: Exposure Controls/Personal Protection

Provide adequate local exhaust ventilation (explosion proof) to maintain worker **Engineering Controls:**

exposure below exposure limits.

Personal Protective Equipment:

Eyes/Face: Wear chemical goggles. Use a face shield if splashing is possible.

Skin: Use impervious gloves (rubber or neoprene). Wear suitable protective clothing.

If exposure limits are exceeded or if irritation is experienced, a NIOSH/MSNA approved Respiratory:

respirator or an organic/vapor removing cartridge respirator protection device should be worn. Ventilation and other forms of engineering controls are often the preferred means for controlling chemical exposures. Respiratory protection may be needed for non-routine or emergency

situations.

General: Eye wash fountain and emergency showers are recommended.

The following ingredients have established exposure guidelines:

Ingredient	Exposure Guideline	Guideline Value
Ethanol (64-17-5)	ACGIH TLV (2005), OSHA PEL & NIOSH REL	1000 ppm (TWA)
	Alberta, British Columbia, Manitoba, 1000 ppm (TWA)	1000 ppm (TWA)
	New Brunswick, Northwest Territories, (Canada)	
	Ontario, Quebec (Canada)	1000 ppm (TWAEV)
	Saskatchewan (Canada)	1000 ppm (TWA), 1250 ppm (STEL)
	Yukon (Canada)	1000 ppm (TWA), 1000 ppm (STEL)
	Mexico	1000 ppm (TWA)

All TWAs are for an 8-hour period and all STELs are for 15 minutes unless specifically noted as being for another time period.

Section 9: Physical & Chemical Properties

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Flash Point: None when heated to 105°C – Tag Closed Cup

Specific Gravity: 1.00 (8.34lbs/gal)
Percent Volatiles: Not determined.
Vapor Pressure: Not determined.

VOC Content ~ 1

Vapor Density Not determined.

Viscosity: 1.4489 mm2/s (cSt) @ 22°C

Evaporation Rate: Not determined. **Pour Point:** Not determined.

pH: 7 – 10

Appearance and Odor: Clear, colorless to straw colored liquid with benzaldehyde (organic) odor.

Section 10: Stability & Reactivity

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: Carbon monoxide, carbon dioxide and toxic hydrogen chloride vapors.

Hazardous Polymerization: Will not occur.

Section 11: Toxicological Information

Carcinogenicity No Carcinogenicity data available for this product.

Acute Oral LD50 > 1000 mg/kg for male and female rats.
Acute Dermal LD50 > 2000 mg/kg for male and female rabbits.

Primary Skin Corrosive Primary Eye Corrosive

Chemicals Ingredients Listed as Potential or Known Carcinogens

Ingredient	OSHA	NTP	IARC
No ingredients listed in this section.			

Section 12: Ecological Information

Ecotoxicity No data available for this product but is considered toxic to fish.

Section 13: Disposal Considerations

Disposal Instructions:

This substance, when discarded or disposed of, is a characteristic hazardous waste according to Federal regulation (40 CFR 261) and is assigned the EPA Hazardous Waste Number of D001. The discarding or disposal of this material must be done at a properly permitted facility in 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 Information

DOT Hazard Class 8 Corrosive

DOT Proper Shipping Name Disinfectant Liquid Corrosive, NOS (Quaternary Ammonium Compound), 8,

UN1903, PG III

Section 15: Regulatory Information

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.

Other Chemical Inventories

All components of this product are listed on the following inventories: Canada (DSL), China, and Philippines. One or more ingredients are not listed on the following inventories: Australia, European Union, Japan and Korea.

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CERCL/SARA

SARA Title III, Sections 311/312 - This act requires reporting under the Community Right-to-Know provisions due to the inclusion of the following components of this material in one or more of the five hazard categories listed in the 40 CFR 370: Classification of this product: Immediate, Fire

SARA Title 313 – This act requires submission of annual reports of releases of the following components of this material if the threshold reporting quantities, as listed in 40 CFR 372, are met or exceeded:

		Maximum	
Chemical Name	CAS No.	Concentration	Comment
No ingredients listed in this section.			

Reportable Quantities/Threshold Planning Quantities: CERCLA requires notification of the National Response Center (Telephone 1-800-424-8802) in the event of a release of quantities of the following hazardous materials contained in this product, if the release is equal to or greater than the Reportable Quantities (RQs), SARA 302/304 requires emergency planning, including agency notification, for possible release of the following components of this material, based upon the Threshold Planning Quantities (TPQs) and/or release of Reportable Quantities.

Chemical Name	Reportable Quantity (RQ)	Threshold Planning Quantity (TPQ)
No ingredients listed in this section.		

State & Provincial Right to Know & Selected Regulatory Lists

The following ingredients appear on various state right to know lists and/or California's Proposition 65 List

Chemical Name	State List
Benzyl Chloride (trace < 100 ppm)	AZ, CA, CAP65C, CT, IL, MA, MN, NJ, PA, RI
Ethanol	AZ, CA, CT, ID, MA, MN, NJ, PA, RI

AZ – Arizona Ambient Air Quality Guidelines

CT - Connecticut Hazardous Air Pollutants MN - Minnesota Hazardous Substances List

CA - California Director's List of Hazardous Substances

NJ – New Jersey Right to Know List CA65C - California Prop 65 Carcinogen PA - Pennsylvania Right to Know List

ID – Idaho Non-carcinogen Toxic Air Pollutants

RI - Rhode Island Hazardous Substances List

MA – Massachusetts Right to Know List

IL – Illinois Toxic Air Contaminant - Carcinogenic

WHMIS Classification: E, D2B. This product has been classified in accordance with hazard criteria of the

Controlled Products Regulations and the MSDS contains all the information required by

the Controlled Products Regulations.

Section 16: Other Information

Current Issue Date: October, 2007 September, 2005 **Previous Issue Date: Update Literature Changes from Previous Issue Date:**

Hazard Ratings	HMIS (II)	NFPA
Health	3	3
Flammability	0	0
Reactivity	0	0
DDE '	Υ	

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