

MATERIAL SAFETY DATA SHEET**EPA Registration: 1839-100-1658****EPA Est. No. 1658-MO-1****NFPA RATING:** Health = 3 Flammability = 1 Reactivity = 0**HMIS RATING:** Health = 3 Flammability = 1 Reactivity = 0**SECTION I – IDENTITY AND MANUFACTURER'S INFORMATION** (545N-08A)**Manufacturer's Name:** HILLYARD INDUSTRIES**Product Name:** Vet and Kennel Disinfectant**Address:** 302 North Fourth Street**Date Prepared:** April 16, 2012 (version 2)

St. Joseph, MO 64501

Prepared by: Regulatory Affairs Department**Emergency Telephone No.:** (800) 424-9300 (Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident involving chemicals.)**Other information calls:** (816) 233-1321 (Ext. 8285)<http://www.hillyard.com>**SECTION II – INGREDIENTS/IDENTITY INFORMATION****Components****(Specific Chemical Identity:**

Common Name(s)	CAS#	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	%
Deionized water	7732-18-5	none	N/A	N/A	---
Alkyl dimethyl benzyl ammonium chloride (C12-18)	68391-01-5	5 mg/M ³	5 mg/M ³	N/A	4.5%
Alkyl dimethyl ethylbenzyl ammonium chloride	85409-23-0	none	none	N/A	4.5%

VOC= 27.6 gm/l. N/A= Not Applicable N/E=Not Established

SECTION III – PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point:	202°F	Specific Gravity (H₂O = 1): 25°C =	1.047	*Density=	8.72 lbs/gl.
Vapor Pressure (mm Hg.):	17.77	*Percent Volatile by Weight (%):	74 – 76%		
Vapor Density (AIR = 1):	.64	Evaporation Rate (ethyl ether = 1):	slower than 1		
Solubility in Water:	complete	Appearance and Odor:	Clear, red liquid with Fresh Fragrance		
pH	11 – 12				

SECTION IV – FIRE AND EXPLOSION HAZARD DATA**Flash point:** >200°F **Flammable Limits:** LEL = N/A UEL = N/A**Extinguishing Media:** Dry chemical, foam, carbon dioxide, water fog**Special Fire Fighting Procedures:** Firefighters should wear full fire-fighting turn-out gear (full Bunker gear) including self-contained breathing apparatus with full face piece operated in the pressure demand other positive pressure mode.**Unusual Fire and Explosion Hazards:** Products of combustion are toxic.**SECTION V – PHYSICAL HAZARDS****Stability:** Stable **Conditions to Avoid:** N/A**Incompatibility (Materials to Avoid):** This product may react with strong oxidizing agents.**Hazardous Decomposition Products or Byproducts:** This product may yield oxides of nitrogen and ammonia, carbon dioxide, carbon monoxide and other low molecular weight hydrocarbons.**Hazardous Polymerization:** Will not occur **Conditions to Avoid:** None known to Hillyard**SECTION VI – HEALTH HAZARD DATA****Routes of entry:** Inhalation? Not likely Skin? Yes Ingestion? Yes Eye? Yes**HEALTH HAZARDS (1. Acute and 2. Chronic):** 1. May be corrosive to the eyes, may cause moderate to severe skin irritation, may be harmful if swallowed. 2. None known.**Chemical listed as Carcinogen or Potential Carcinogen:****National Toxicology Program =** No **I.A.R.C. Monographs =** No **OSHA =** No**Signs and Symptoms of Exposure:** None known.**Medical Conditions Generally Aggravated by Exposure:** None known.**Emergency and First Aid Procedures:** **EYES:** If splashed into eyes flush with water for 15 minutes; if irritation persists get medical attention. **SKIN:** Immediately take off contaminated clothing. Flush skin with large amounts of water. Wash clothing before reuse. **INGESTION:** If swallowed get immediate medical attention. Never give anything by mouth to a victim who is unconscious or is having convulsions.

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: Isolate spill or leak area immediately. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering. Do not touch or walk through spilled material. Stop leak if you can do it without risk. Wear appropriate personal protective equipment during cleanup. Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Large Spills: Dike and recover liquid for disposal.

Surfaces may become slippery after spillage.

Waste Disposal Method: Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA..

Precautions To Be Taken In Handling And Storing: Avoid contact with skin and eyes. Wash thoroughly after handling. Wash hands before eating, drinking, smoking, or using toilet facilities. Remove contaminated clothing and wash before reuse. As with all chemicals, good industrial hygiene practices should be followed when handling this material. Avoid freezing or excessive heat.

PESTICIDE STORAGE: Store in a dry place no lower in temperature than

50°F or higher than 120°F. DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL.

Other Precautions: Store in original container in areas inaccessible to children. Open dumping is prohibited Do not reuse empty container. This product contains no reportable quantities of toxic chemicals subject to reporting requirements of Section 313 of SARA Title III Emergency Planning & Community Right to Know Act of 1986 and 40 CFR Part 372.

SECTION VIII – CONTROL MEASURES

Respiratory Protection (Specify Type): Under normal conditions, respirator is not normally required. If vapors are present or irritation is experienced, NIOSH approved respiratory protection for ammoniacal vapors should be worn.

Ventilation: Local exhaust ventilation.

Local Exhaust = Yes **Mechanical (General) =** N/A **Special =** N/A **Other =** N/A

Protective Gloves: Impervious Gloves **Eye Protection:** Chemical goggles and face shield

Other Protective Clothing or Equipment: Clothing to prevent all skin contact should be worn, i.e. coveralls and long sleeves.

Work / Hygienic Practices: Eye wash fountain and emergency showers are recommended. Do not take internally; wash contaminated clothing before reuse.

SECTION IX – TRANSPORTATION INFORMATION

Applicable regulations: 49 CFR = no; IMCO = no; IATA = no.

Proper shipping name (Gallon Boxes) for U.S. Highway: Consumer Commodity ORM-D

Proper shipping name (5 & 55 Gallon Drums) for U.S. Highway: Disinfectants, Liquid, corrosive, n.o.s. (Dialkyl dimethyl ammonium chloride, N-alkyl dimethyl benzyl ammonium chloride), 8, UN1903, III

UN No.: UN1903; **Limited Qty.:** not applicable; **Hazard Class:** 8.

Labels required: Corrosive **DOT Exception:** not applicable

EPA Hazardous waste number / code: not listed

Hazardous waste characteristics:

Ignitability = not applicable; **Corrosivity =** applicable; **Reactivity =** not applicable.

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The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate.

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Version 2, * Denotes revisions since last published MSDS. Supersedes Version 1 June 23, 2009