



Mueller Sports Medicine, Inc.
 One Quench Drive, Prairie du Sac, WI 53578 USA * (608) 643-8530 * Fax (608) 643-2568

MATERIAL SAFETY DATA SHEET

Health : 3
 Flammability : 1
 Reactivity : 0

MATERIAL Whizzer® Cleaner & Disinfectant	DATE ISSUED 03/01/04 - Rev. 01	DOT HAZARD CLASSIFICATION Corrosive Liquid DOT SHIPPING NAME Disinfectant, Liquid
CAS NO. See Section I	SUPERCEDES 01/17/03	DOT LABEL Corrosive

FORMULA Mixture
CHEMICAL NAME Mixture

***** I - INGREDIENTS *****

	APPROXIMATE WEIGHT %	TWATLV
N,N-Dialkyl(C8-10)-N,N-dimethylammonium chloride (CAS No. 68424-95-3)	6.51	None established
N-Alkyl(C12-16)dimethylbenzylammonium chloride (CAS No. 68424-85-1)	4.34	None established
Linear primary and/or secondary alcohol ethoxylates and/or nonylphenol (branched) ethoxylate	4.50	None established
Tetrasodium ethylenediamine tetraacetate (CAS No. 64-02-8)	2.66	None established
Sodium metasilicate (CAS No. 6834-92-0)	0.58	None established
Ethanol (CAS No. 64-17-5)	2.17	1000 ppm (OSHA-PEL) 1000 ppm (ACGIH-TWA)
Ethanol (CAS No. 64-17-5)	2.17	1000 ppm (OSHA-PEL) 1000 ppm (ACGIH-TWA)
Water (CAS No. 7732-18-5)	79.24	None established

***** II - PHYSICAL AND CHEMICAL PROPERTIES *****

APPEARANCE Clear liquid
VISCOSITY <100 cps @ 25°C
BOILING POINT Not known
VAPOR DENSITY (Air=1) Not known

PERCENT VOLATILE (by weight) 81.4
EVAPORATION RATE (Butyl Acetate=1) Not known

pH 12.9
ODOR Varies with fragrance added (if any)
MELTING OR FREEZING POINT Not known
VAPOR PRESSURE (mm Hg) Not known
SOLUBILITY IN WATER Soluble

SPECIFIC GRAVITY (WATER = 1) 1.01 @ 25°C



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***** III - FIRE AND EXPLOSION INFORMATION *****

FLASH POINT Not known
LOWER EXPLOSION LIMIT (%) Not known
EXTINGUISHING MEDIA FOAM
ALCOHOL FOAM X CO2 X
DRY CHEMICAL X WATER X OTHER

AUTO IGNITION TEMPERATURE Not known
UPPER EXPLOSION LIMIT (%) Not known

SPECIAL FIRE FIGHTING PROCEDURES:

Must wear NIOSH/MSHA approved self-contained breathing apparatus and protective clothing. Cool fire-exposed containers with water spray.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Products of combustion are toxic.

***** IV - HEALTH EFFECTS INFORMATION *****

PRIMARY ROUTES OF ENTRY -

SKIN CONTACT X
INHALATION X

EYE CONTACT X
INGESTION

EFFECTS OF OVEREXPOSURE

Based upon available animal toxicity information, it is anticipated that this material will be corrosive to the skin and eyes upon direct or prolonged contact. Solvent vapors or mists of products can produce irritation of mucous membranes. Ingestion can produce immediate burning pain in the mouth, throat, and abdomen; severe swelling of the larynx; skeletal muscle paralysis affecting the ability to breathe; circulatory shock; and/or convulsions. May be fatal.

Exposure to ethyl alcohol concentrations of over 1,000 ppm may cause headache, irritation of the eyes, nose and throat, and, if long continued, drowsiness and lassitude, loss of appetite and inability to concentrate.

OVEREXPOSURE MAY AGGRAVATE EXISTING CONDITIONS:

No effects indicated.

EMERGENCY AND FIRST AID PROCEDURES:

Eyes: Flush eyes with large amounts of running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. Get immediate medical attention. If physician not available, flush for additional 15 minutes and then transport victim to medical care.

Skin: Wash with large amounts of running water, and soap if available, for 15 minutes. Remove contaminated clothing and shoes. Get immediate medical attention. Wash clothing and decontaminate shoes before reuse.

Ingestion: If swallowed, immediately give 3-4 glasses of milk (if unavailable, give water). DO NOT induce vomiting. If vomiting occurs, give fluids again. Have physician determine if patient's condition allows for induction of vomiting or evacuation of the stomach. Do not give anything by mouth to a convulsing or unconscious person. Get immediate medical attention.

Inhalation: Remove from area to fresh air. If not breathing, clear airway and start artificial respiration. If victim is having trouble breathing, give supplemental oxygen, if available. Get immediate medical attention.



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***** IV - HEALTH EFFECTS INFORMATION (continued) *****

CHEMICALS LISTED AS CARCINOGEN BY: (YES OR NO)

NATIONAL TOXICOLOGY PROGRAM - No
I.A.R.C. MONOGRAPHS - No
OSHA - No

***** V - REACTIVITY INFORMATION *****

STABILITY: **STABLE X CONDITIONS TO AVOID**
 UNSTABLE None known

HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition may produce toxic vapors/fumes of amines and other organic materials, and oxides of carbon and nitrogen.

HAZARDOUS	POLYMERIZATION	CONDITIONS TO AVOID
MAY	WILL NOT X	None known
OCCUR	OCCUR	

INCOMPATIBILITY (MATERIALS TO AVOID)

WATER **OTHER** None known

***** VI - SPILL AND DISPOSAL INFORMATION *****

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Danger! Corrosive material. Floors may become slippery. Wear appropriate protective equipment and NIOSH/MSHA approved respirator where mist or vapors of unknown concentrations may be generated (self-contained breathing apparatus preferred).

Dike and contain spill with inert material (sand, earth, etc.) and transfer the liquid and solid separately to containers for recovery or disposal. Keep spill out of sewers and open bodies of water.

WASTE DISPOSAL METHODS

Dispose of in compliance with all Federal, state and local laws and regulations. Incineration is the preferred method.

CONTAINER DISPOSAL

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

***** VII - PERSONAL PROTECTION INFORMATION *****

VENTILATION TYPE

In processes where TLV may be exceeded, or mists and/or vapors may be generated, proper ventilation must be provided in accordance with good ventilation practices.

RESPIRATORY PROTECTION

Where mist or vapors are generated by the process or if recommended TWA/TLV for ethyl alcohol is exceeded, a NIOSH/MSHA jointly approved respirator is advised in the absence of proper environmental controls.



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PROTECTIVE GLOVES

Rubber or neoprene, when needed, to prevent skin contact.

EYE PROTECTION

Wear chemical splash goggles where there is a potential for eye contact. Use safety glasses with side shields under normal use conditions.

OTHER PROTECTIVE EQUIPMENT

Eye wash; safety shower; protective clothing (long sleeves, coveralls or other, as appropriate), when needed, to prevent skin contact.

***** VIII - STORAGE AND HANDLING *****

PRECAUTIONS FOR STORAGE AND HANDLING:

Store at temperatures below 140°F. Keep containers closed until used.
Do not contaminate drinking water, food or feed by storage or disposal.

***** IX - TOXICOLOGY INFORMATION *****

- oral LD50 (rat): 1650 mg/kg
- dermal LD50 (rabbit): 1870 mg/kg
- skin irritation (rabbit): severe irritant (primary irritation index = 8.0)
- eye irritation (rabbit): severe irritant (primary irritation index = 110)
 - skin corrosion (DOT method - rabbit): corrosive

***** X - MISCELLANEOUS AND REGULATORY INFORMATION *****

NOTE TO PHYSICIAN:

Probable mucosal damage may contraindicate the use of gastric lavage. Supplemental oxygen and other measures to support breathing may be needed to combat circulatory shock. Persistent convulsions may be controlled by the cautious intravenous injection of a short acting barbiturate drug.

FEDERAL LEVEL REGULATIONS:

This is an EPA registered pesticide (EPA Registration No. 6836-77). This material can only be used commercially in the EPA registered application(s) noted on the product label.

TOXIC SUBSTANCES CONTROL ACT (TSCA INVENTORY) STATUS:

Found on U.S. EPA TSCA inventory.

CERCLA (Comprehensive Environmental Response, Compensation and Liability Act of 1980 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) listed in 40 CFR 302.4:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Typical Maximum Concentration</u>
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None known
SARA Title III, Sections 302/304 (Superfund Amendments and Reauthorization act of 1986) - This act requires emergency planning, including agency notification, for possible release of the following components of this material, based upon the Threshold Planning Quantities (TPQs) and release Reportable Quantities (RQs) listed for the Components in 40 CFR 355:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Typical Maximum Concentration</u>
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None known



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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 40 CFR 370:

Chemical Name	CAS Number	Hazard *) Categories
N,N-Dialkyl(C8-10)-N,N-dimethylammonium chloride	68424-95-3 A	
N-Alkyl(C12-16)dimethylbenzylammonium chloride	68424-85-1 A	
Ethanol	64-17-5 F	
Linear primary and/or secondary alcohol	Depends upon A	
ethoxylates and/or nonylphenol (branched)	ethoxylate type	
ethoxylate		

*) The five hazard categories are as follows: F=FIRE HAZARD; S= SUDDEN RELEASE OF PRESSURE; R=REACTIVE; A=IMMEDIATE (ACUTE) HEALTH HAZARD; C=DELAYED (CHRONIC) HEALTH HAZARD

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:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Typical Maximum Concentration</u>
None known		

STATE RIGHT-TO-KNOW REGULATIONS:

CALIFORNIA PROPOSITION 65 - Components present in this material which the State of California has found to cause cancer, birth defects or other reproductive harm are as follows:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Typical Maximum Concentration</u>
Acetaldehyde	75-07-0	800 ppb
Benzene	71-43-2	15 ppm
Benzyl chloride	100-44-7	25 ppm
1,4-Dioxane	123-91-1	800 ppb
Ethylene oxide	75-21-8	80 ppb
N-Nitrosodimethylamine	62-75-9	100 ppb
Propylene oxide	75-56-9	3 ppm
Toluene	108-88-3	25 ppm

MASSACHUSETTS Right-to-Know - The following components of this material are included in the Massachusetts Substance List and are present at or above reportable levels:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Typical Maximum Concentration</u>
Benzene	71-43-2	15 ppm
Benzyl chloride	100-44-7	25 ppm
Propylene oxide	75-56-9	3 ppm

MICHIGAN Critical Materials - The following components of this material are included in the Michigan Critical Materials List:

<u>Chemical Name</u>	<u>CAS Number</u>
None known	



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NEW JERSEY Right-to-Know - The following components of this material are included in the New Jersey Hazardous Substance List and are present at or above reportable levels:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Typical Maximum Concentration</u>
N,N-Dialkyl(C8-10)-N,N-dimethylammonium chloride	68424-95-3	6.5%
N-Alkyl(C12-16)-N,N-dimethylbenzylammonium chloride	86424-85-1	4.3%
Ethanol	64-17-5	2.2%

PENNSYLVANIA Right-to-Know - The following components of this material are included in the Pennsylvania Hazardous Substance List and are present at or above reportable levels:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Typical Maximum Concentration</u>
Ethanol	64-17-5	2.2%