

MATERIAL SAFETY DATA SHEET REC'D FEB 12 2008

891090165

SECTION I - IDENTITY AND RESPONSIBLE PARTY INFORMATION

Responsible Party:

Product Name: HUSKY 891 ARENA DISINFECTANT

Canberra Corporation

Address: 3610 Holland-Sylvania Rd.
Toledo, Ohio 43615

Date Prepared: 4-3-07

Emergency Telephone No. 1-419-841-6616
And Other Information

Prepared By: Regulatory Affairs Department

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components

Specific Chemical Identity: Common Name(s)

CAS #s

OSHA PEL

ACGIH TLV

Other Limits

Recommended

% Optional

Dialkyldimethyl Ammonium Chloride

68424-95-2

N/A

N/A

N/A

6.51%

Alkyldimethylbenzyl Ammonium Chloride

68424-85-1

N/A

N/A

N/A

4.34%

*THIS CHEMICAL IS SUBJECT TO THE REPORTING REQUIREMENTS FOR SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372.

HMIS RATING - HEALTH: 2 FLAMMABILITY: 0 REACTIVITY: 0 PERSONAL PROTECTION EQPT: B

SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: Approx 212° F

Specific Gravity (H₂O = 1): 1.000 ± 0.01

Vapor Pressure (mm Hg): Not Established

Percent Volatile By Weight (%): >85

pH (conc.): 7.5

Evaporation Rate (H₂O=1): 1

Solubility in Water: Complete

Appearance and Fragrance: Green Liquid / Fresh Fragrance

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used) - None

Flammable Limits -

LEL - N/A

UEL - N/A

Extinguishing Media - Water, CO₂, Foam or media suitable for surrounding fire.

Special Fire Fighting Procedures - Standard fire fighting procedures may be followed, including full protective gear, NIOSH approved self-contained breathing apparatus. Unusual Fire and Explosion Hazards - None Known

SECTION V - PHYSICAL HAZARDS

Stability - Unstable

Conditions to Avoid - None Known

Stable X

Incompatibility (Materials to Avoid) - Do not mix with other chemicals.

Hazardous Decomposition Products or By-products - Thermal decomposition on burning may produce toxic vapors or gases.

Hazardous May Occur

Conditions to Avoid - None Known

Polymerization Will not Occur X

SECTION VI - HEALTH HAZARDS

Route(s) of Entry:

Inhalation?

Skin? X

Ingestion? X

Health Hazards (1. Acute and 2. Chronic) - 1. ACUTE: Harmful if swallowed. Eye and skin irritant. 2. CHRONIC: None Known.

Chemical Listed as Carcinogen

National Toxicology

I.A.R.C.

or Potential Carcinogen

Program

No X

Monographs

No X

OSHA

No X

Signs and Symptoms of Exposure - Irritation or burning sensation.

Medical Conditions Generally Aggravated by Exposure - May aggravate skin disorders or respiratory ailments.

Emergency and First Aid Procedures - EYE CONTACT: Flush immediately with water for 15 minutes. Get medical attention. SKIN CONTACT: Flush with water for 15 minutes. Remove and wash contaminated clothing. INGESTION: Rinse mouth with water. Then drink 1-2 glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get immediate medical attention.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled - Wear appropriate protective equipment. If possible, contain spill and collect in approved container.

Rinse affected area thoroughly with water. Keep product out of storm sewers or waterways. Hold for disposal.

Waste Disposal Method - Dispose of in accordance with local, state and federal regulations. If possible, triple rinse container, and recycle.

Precautions to be Taken in Handling and Storing - Avoid contact with skin or eyes. Avoid breathing vapor, spray or mist. Store in original container, in cool dry place with adequate ventilation. Keep out of reach of children. Keep container tightly closed when not in use.

Other Precautions - Use only according to label directions. If unsure about safe use, contact your supervisor immediately.

SECTION VIII - CONTROL MEASURES

Respiratory Protection (Specify Type) - Not expected to be necessary under normal conditions of use. Where exposure cannot be adequately controlled by general or local ventilation, use appropriate respiratory protection to prevent over exposure. An approved dust/mist respirator would be recommended.

Ventilation - X Local Exhaust - As Necessary Mechanical (General) - Adequate Special - N/A Other - N/A

Protective Gloves - Water Impervious (Latex, Neoprene) Eye Protection - Chemical Resistant Goggles or Face Shield Other Protective Clothing or

Equipment - Not Required Eye wash recommended Work/Hygiene Practices - Follow OSHA mandated procedures. Never eat or smoke while

working with chemicals. Good housekeeping practices apply. Wash thoroughly after handling.

NOTICE: NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OF ANY OTHER NATURE, ARE MADE WITH RESPECT TO INFORMATION CONCERNING THE PRODUCT REFERRED TO IN THIS MATERIAL SAFETY DATA SHEET.

The goal of defining precisely, in measurable terms, every possible health effect that may occur in the workplace as a result of chemical exposures cannot realistically be accomplished. The information and recommendation contained in this Material Safety Data Sheet are supplied pursuant to 29 C.F.R. 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. The information and recommendations set forth herein are presented in good faith and believed to be correct as of the date hereof. Canberra Corporation, however, makes no representations as to the completeness or accuracy thereof, and information is supplied upon the express condition that the persons receiving the same will be required to make their own determination as to its suitability for their purposes prior to use. In no event will Canberra Corporation be responsible for any damages of any nature whatsoever resulting from the use of, reliance upon, or the misuse of this information. The information as supplied herein is simply to be informative and intended solely to alert the user of the substance which is the subject matter of this Material Safety Data Sheet. The ultimate compliance with federal, state and local regulations concerning the use or disposal of this compound, or compliance with respect to products liability, rests solely upon the purchaser thereof.

N/A (Not Applicable/Not Available)

N/E (Not Established)

120048

#810

MATERIAL SAFETY DATA SHEET

NFPA RATING: Health = 2 Flammability = 0 Reactivity = 0
 HMIS RATING: Health = 1/2 Flammability = 0 Reactivity = 0

SECTION I - IDENTITY AND MANUFACTURER'S INFORMATION (1053-A)

Manufacturer's Name: **HILLYARD INDUSTRIES** Product Name: **ARSENAL TOP CLEAN**

Address: 302 North Fourth Street Date Prepared: October 3, 2006

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	%
Water	7732-18-5	none	none	N/A	---
Alkoxylated linear alcohol	37251-67-5	not established	not established	N/A	---
Sodium xylene sulfonate	1300-72-7	not established	not established	N/A	---

VOS = 0.00 lbs./gallon

SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

Bolling Point: 205°F	Specific Gravity (H ₂ O = 1): 25°C = 1.01 & 39°C = 1.01
Vapor Pressure (mm Hg.): 17.6	Percent Volatile by Volume (%): 88.4 %
Vapor Density (AIR = 1): 0.6	Evaporation Rate (ethyl ether = 1): slower than 1
Solubility in Water: complete	Appearance and Odor: Clear, blue liquid; fresh & clean odor
pH (concentrate) = 8.5	

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash point: None to boiling (Tag Closed Cup) Flammable Limits: LEL = N/A UEL = N/A

Extinguishing Media: Foam, dry chemical, carbon dioxide, water spray

Special Fire Fighting Procedures: None known to manufacturer.

Unusual Fire and Explosion Hazards: None known to manufacturer.

SECTION V - PHYSICAL HAZARDS

Stability: Stable Conditions to Avoid: None known to manufacturer

Incompatibility (Materials to Avoid): None known to manufacturer.

Hazardous Decomposition Products or Byproducts: None known to manufacturer.

Hazardous Polymerization: Will not occur Conditions to Avoid: N/A

SECTION VI - HEALTH HAZARD DATA

Routes of entry: Inhalation? Yes Skin? Yes Ingestion? Yes

HEALTH HAZARDS (1. Acute and 2. Chronic)

1. According to Primary Skin Irritation Test (PHSA), product concentrate is a primary skin irritant. Eye Irritation Test (PHSA) = corrosive. When tested as specified this product was not considered to be a UN/DOT corrosive at 4 hours. Acute oral limit test showed the product was not orally toxic at 5g/kg. Since the product is corrosive it may be harmful if swallowed. Acute inhalation - 1 Hour Toxic Limit test - not toxic at nominal concentration of at least 16.4 mg/l. Inhalation of fine fog mist can cause irritation of mucous membranes. Fine fog mist application is not recommended. 2. None known to manufacturer.

Chemical listed as Carcinogen or Potential Carcinogen:

National Toxicology Program = No I.A.R.C. Monographs = No OSHA = No

This product has no carcinogens listed by IARC, NTP, NIOSH, or ACGIH as of this date, greater than or equal to 0.1%.

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SECTION VI - HEALTH HAZARD DATA continued

Signs and Symptoms of Exposure: Direct eye contact can cause burns or severe irritation, reddening and swelling of tissues around eyes; prolonged skin contact may cause irritation. Ingestion may cause irritation to mouth, throat and stomach. May cause gastro-intest-disorder.

Medical Conditions Generally Aggravated by Exposure: Skin problems such as dermatitis may be aggravated by exposure to concentrated product.

Emergency and First Aid Procedures: In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. GET MEDICAL ATTENTION IMMEDIATELY. If skin irritation persists get medical attention. If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: Small spills: Flush with water and pick-up with mop or wet vac. Large spills may be absorbed with floor dry material.

Waste Disposal Method: Dispose of in accordance with all federal, state and local requirements.

Precautions To Be Taken In Handling And Storing: Keep away from children. Container disposal: Triple rinse (or equivalent) then offer clean, dry container for recycling or reconditioning. Waste from normal use may be sewerred to a public-owned treatment works in compliance with applicable federal, state and local requirements.

Other Precautions: Avoid breathing of vapors or fine fog mist. Use only with adequate ventilation. Do not breathe fine fog mist. Wash thoroughly after handling. Keep container closed when not in use. Do not get in eyes, on skin or on clothing. Do not take internally. 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): None normally required. Ventilate to keep air below TLV on metasilicate.

Ventilation: At least 10 air exchanges per hour suggested in public areas with good ventilation.

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

Protective Gloves: If prolonged or repeated contact is possible, wear rubber or other impervious gloves.

Eye Protection: Splash goggles if risk of contact.

Other Protective Clothing or Equipment: Not usually necessary

Work / Hygienic Practices: Wash thoroughly after handling

SECTION IX - TRANSPORTATION INFORMATION

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

Proper shipping name: Cleaning Compound

UN No.: not applicable **Limited Qty.:** not applicable **Hazard Class:** not applicable

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

EPA Hazardous waste number / code: not listed

Hazardous waste characteristics:

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

DISCLAIMER OF WARRANTIES

NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OF ANY NATURE ARE MADE WITH RESPECT TO THE PRODUCT(S) OR INFORMATION CONTAINED IN THIS MATERIAL SAFETY DATA SHEET.

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.

THE BUYER OR USER ASSUMES ALL RISKS ASSOCIATED WITH THE USE, MISUSE OR DISPOSAL OF THIS PRODUCT. THE BUYER OR USER IS RESPONSIBLE TO COMPLY WITH ALL FEDERAL, STATE OR LOCAL REGULATIONS CONCERNING THE USE, MISUSE OR DISPOSAL OF THESE PRODUCTS.

#810RTU

MATERIAL SAFETY DATA SHEET

NFPA RATING: Health = 0 Flammability = 0 Reactivity = 0
 HMIS RATING: Health = 1/0 Flammability = 0 Reactivity = 0

SECTION I - IDENTITY AND MANUFACTURER'S INFORMATION (diluted 1:256)

Manufacturer's Name: HILLYARD INDUSTRIES

Product Name: ARSENAL TOP CLEAN RTU

 Address: 302 North Fourth Street
 St. Joseph, MO 64501

Date Prepared: August 23, 1996

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	%
Water	7732-18-5	none	none	N/A	---
B-Alanine, N-(2-carboxyethyl)-N-[3-(decyloxy)propyl] monosodium salt (Amphoteric surfactant)	64972-19-6	not established	not established	N/A	---
Linear primary alcohol ethoxylate (nonionic surfactant)	68439-46-3	not established	not established	N/A	---

VOS = 0.001 lbs./gallon

SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 207°F Specific Gravity (H₂O = 1): 25°C = 1.00 & 39°C = 1.00
 Vapor Pressure (mm Hg.): 17.5 Percent Volatile by Volume (%): 99.93 %
 Vapor Density (AIR = 1): 0.6 Evaporation Rate (ethyl ether = 1): slower than 1
 Solubility in Water: complete Appearance and Odor: Clear, blue liquid; fresh & clean odor
 pH (concentrate) = 7 (diluted 1:256 with water)

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash point: None to boiling (Tag Closed Cup) Flammable Limits: LEL = N/A UEL = N/A

Extinguishing Media: Foam, dry chemical, carbon dioxide, water spray

Special Fire Fighting Procedures: None known to manufacturer

Unusual Fire and Explosion Hazards: None known to manufacturer

SECTION V - PHYSICAL HAZARDS

Stability: Stable Conditions to Avoid: None known to manufacturer

Incompatibility (Materials to Avoid): None known to manufacturer.

Hazardous Decomposition Products or Byproducts: None known to manufacturer.

Hazardous Polymerization: Will not occur Conditions to Avoid: N/A

SECTION VI - HEALTH HAZARD DATA

Routes of entry: Inhalation? Yes Skin? Yes Ingestion? Yes

HEALTH HAZARDS (1. Acute and 2. Chronic)

1. Not expected to be a skin nor an eye irritant when tested per the Federal Hazardous Substance Act. Fine fog mist application is not recommended.

2. None known to manufacturer.

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SECTION VI - HEALTH HAZARD DATA continued

Chemical listed as Carcinogen or Potential Carcinogen:

National Toxicology Program = No L.A.R.C. Monographs = No OSHA = No

This product has no carcinogens listed by IARC, NTP, NIOSH, or ACGIH as of this date, greater than or equal to 0.1%.

Signs and Symptoms of Exposure: Prolonged eye contact may cause mild irritation; prolonged skin contact may cause slight irritation. Ingestion may cause irritation to mouth, throat and stomach. May cause gastric tract disorder.

Medical Conditions Generally Aggravated by Exposure: Skin problems such as dermatitis may be aggravated by over-exposure.

Emergency and First Aid Procedures: In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. If skin or eye irritation persists get medical attention. If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

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Steps To Be Taken In Case Material Is Released Or Spilled: Small spills: Flush with water and pick-up with mop or wet vac. Large spills may be absorbed with floor dry material.

Waste Disposal Method: Dispose of in accordance with all federal, state and local requirements.

Precautions To Be Taken In Handling And Storing: Keep away from children. Container disposal: Triple rinse (or equivalent) then offer clean, dry container for recycling or reconditioning. Waste from normal use may be sewered to a public-owned treatment works in compliance with applicable federal, state and local requirements.

Other Precautions: Avoid breathing of vapors or fine fog mist. Use only with adequate ventilation. Do not breathe fine fog mist. Wash thoroughly after handling. Keep container closed when not in use. Do not get in eyes, on skin or on clothing. Do not take internally. 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): None normally required. Ventilate to keep air below TLV on metasilicate.

Ventilation: At least 10 air exchanges per hour suggested in public areas with good ventilation.

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

Protective Gloves: None normally need when used according to label directions with diluted product.

Eye Protection: None normally needed when used according to label directions with diluted product.

Other Protective Clothing or Equipment: Not usually necessary

Work / Hygienic Practices: Wash thoroughly after handling

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