

MATERIAL SAFETY DATA SHEET
U.S. DEPARTMENT OF LABOR - OSHA'S HAZARD COMMUNICATION STANDARD
 (Utilized to comply with 29 CFR 1910.1200)

Product Name & Manufacturers Identity

COUNTERIFFIC®

Stone Care International, Inc.
 P.O. Box 703
 Owings Mills, MD 21117
 1-800-839-1654 410-783-0045

H.M.I.S. Rating

Health: 1
 Flammability: 0
 Reactivity: 0

For Medical Emergencies, call Infotrac at 1-800-535-5053
For International Emergencies, call 1-352-323-3500

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MATERIAL

READY TO USE
 DISINFECTANT AND SANITIZER

DOT HAZARD CLASSIFICATION

Non-hazardous

DOT SHIPPING NAME

Not regulated

DOT LABEL

None

DATE ISSUED: 6/2001

DATE OF LAST REVISION: 9/2002

FORMULA Mixture

CAS. NO. Mixture

CHEMICAL NAME (Active) mixture of N,N-Dialkyl-N,N-dimethylammonium Chloride and
 N-Alkyl-N,N-dimethyl-N-benzylammonium Chloride

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

APPROXIMATE

WEIGHT % TWA/TLV

| | | |
|---|-------|------------------|
| N,N-Dialkyl(C ₈₋₁₀)-N,N-dimethylammonium Chloride (CAS No. 68424-95-3) | 0.028 | None established |
| N-Alkyl(C ₁₂₋₁₆)-N,N-dimethyl-N-benzylammonium Chloride (CAS No. 68424-85-1) | 0.018 | None established |
| Water (CAS No. 7732-18-5) | 99.9 | None established |

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

APPEARANCE Clear liquid, color depends
 on optional dye added

pH 6.4

ODOR Slightly sweet

VISCOSITY 0.66 Cst @ 20°C

MELTING OR FREEZING POINT 0°C

BOILING POINT 100°C

VAPOR PRESSURE (mm Hg) Not known

VAPOR DENSITY (Air=1) Not known

SPECIFIC GRAVITY (Water=1) 1.0 @ 25°C

PERCENT VOLATILE (by weight) 99.9

SOLUBILITY IN WATER Soluble

EVAPORATION RATE (Butyl Acetate=1) Not known

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

FLASH POINT >200°F

AUTO IGNITION TEMPERATURE Not known

LOWER EXPLOSION LIMIT (%) Not applicable

UPPER EXPLOSION LIMIT (%) Not applicable

EXTINGUISHING MEDIA FOAM

ALCOHOL FOAM X CO₂ X

DRY CHEMICAL X

WATER X

OTHER

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

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.

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

ENGINEERING CONTROL

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

RESPIRATORY PROTECTION

In processes where mists or vapors may be generated, a NIOSH/MSHA jointly approved respirator is advised in the absence of proper environmental controls.

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), to prevent skin contact.

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

PRECAUTIONS FOR STORAGE AND HANDLING:

Maximum storage temperature: 140°F. Keep containers closed not in use.

Do not contaminate drinking water, food or feed by storage or disposal.

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

TOXICITY

No toxicity information is available for this specific material. The toxicity information provided is for ready-to-use dilutions of different EPA FIFRA registered formulations, R-82, S-21, and S-38, each diluted to produce concentrations between 600 ppm and 850 ppm of the same actives, Dialkyldimethylammonium chloride and Alkyldimethylbenzylammonium chloride, in the identical ratio.

ACUTE

For Stone Care International Formulation R-82, diluted 1:256 (850 ppm actives blend):

- skin irritation (rabbit): Essentially non-irritating.

For Stone Care International Formulation S-21, diluted 1:64 (850 ppm actives blend):

- eye Irritation (rabbit): Not an irritant with or without washing.

- skin irritation (rabbit): Non-irritant.

For Stone Care International Formulation S-38, diluted 1:64 (600 ppm actives blend):

- eye Irritation (rabbit): essentially non-irritant with or without washing.

- skin irritation (rabbit): Non-irritant.

FEDERAL REGULATIONS:

TOXIC SUBSTANCES CONTROL ACT (TSCA INVENTORY) STATUS:

This product is currently listed on the EPA TSCA 8(b) inventory list.

TSCA Section 12(b) Export Notification

Components present in this product which, if exported, could require either annual or one-time reporting under this regulation are as follows:

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

COUNTERIFFIC®

EPA REGULATION ON PESTICIDES

This is an EPA FIFRA registered pesticide (EPA Registration No. 6836-289-67967). This material can only be used in the EPA registered application(s) noted on the product label.

US FDA REGULATION ON FOODS - This product is regulated under the following section(s) of the Code of Federal Regulations (CFR) when used in permitted food contact applications:

21 CFR 178.1010

CERCLA (Comprehensive Environmental Response, Compensation and Liability Act of 1980 requires notification of the National Response Center (Telephone 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> |
|----------------------|-------------------|--------------------------------------|
| 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> |
|----------------------|-------------------|--------------------------------------|
| None known | | |

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:

| <u>Chemical Name</u> | <u>CAS Number</u> | <u>Hazard *) Categories</u> |
|--|-------------------|-----------------------------|
| N,N-Dialkyl-N,N-dimethylammonium Chloride | 68424-95-3 | A |
| N-Alkyl-N,N-dimethyl-N-benzylammonium Chloride | 68424-85-1 | A |

***) 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 III Section 313 - This act requires submission of annual reports off the 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 | | |

***** X - MISCELLANEOUS AND REGULATORY INFORMATION (continued) *****

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:

AS A CANCER HAZARD

| <u>Chemical Name</u> | <u>CAS Number</u> | <u>Typical Maximum Concentration</u> |
|------------------------|-------------------|--------------------------------------|
| Acetaldehyde | 75-07-0 | 1 ppb |
| Benzene | 71-43-2 | 50 ppb |
| Benzyl Chloride | 100-44-7 | 15 ppb |
| N-Nitrosodimethylamine | 62-75-9 | 0.5 ppb |
| Propylene Oxide | 75-56-9 | 0.9 ppb |

AS A REPRODUCTIVE HAZARD

| <u>Chemical Name</u> | <u>CAS Number</u> | <u>Typical Maximum Concentration</u> |
|----------------------|-------------------|--------------------------------------|
| Benzene | 71-43-2 | 50 ppb |
| Toluene | 108-88-3 | 50 ppb |

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> |
|----------------------|-------------------|--------------------------------------|
| None known | | |

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 | |

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> |
|----------------------|-------------------|--------------------------------------|
| None known | | |

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> |
|----------------------|-------------------|--------------------------------------|
| None known | | |

*** THE INFORMATION CONTAINED HEREIN IS BASED ON THE DATA AVAILABLE TO US (INCLUDING THAT PROVIDED BY THE MANUFACTURER AND IS BELIEVED TO BE CORRECT. THE INFORMATION RELATES TO THIS SPECIFIC PRODUCT - IT MAY NOT BE VALID FOR THIS MATERIAL IF USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. HOWEVER, STONE CARE INTERNATIONAL, INC. (SCI) MAKES NO WARRANTY, EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS OBTAINED FROM THE USE THEREOF. SUCH DATA ARE OFFERED SOLELY FOR CONSIDERATION, INVESTIGATION AND VERIFICATION. IT IS THE USER'S RESPONSIBILITY TO SATISFY ONESELF AS TO THE SUITABILITY AND COMPLETENESS OF THIS INFORMATION FOR HIS/HER OWN PARTICULAR USE. STONE CARE INTERNATIONAL, INC. (SCI) ASSUMES NO RESPONSIBILITY FOR INJURY FROM THE USE OF THE PRODUCT DESCRIBED HEREIN.

(Abbreviation Key: N.A. = Not Applicable, N.E. = Not Established, N.D. = Not Determined, * Where no corresponding data was contained in the manufacturer's MSDS, additional research is required and may be obtained upon request)