

# M A T E R I A L   S A F E T Y   D A T A   S H E E T

## SECTION 1 - PRODUCT INFORMATION and COMPANY IDENTIFICATION

Product Name:           **DISINFECTANT 64 FA**

Product Use:            Liquid Detergent

Supplier:               **Kemper Industries, Inc.**  
P.O. Box 1172  
2197 Stanton Rd.  
Daphne, AL 36526

**In Case of Emergency**  
CHEMTREC   800-424-9300  
HANDLING   251-626-3083  
TECHNICAL   866-536-4225

## SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

	APPROXIMATE WEIGHT %	TWA/TLV
N,N-Didecyl-N,N-dimethylammonium chloride (CAS No. 7173-51-5)	2.43	None established
N-Alkyl (C <sub>12-16</sub> ) - N,N-dimethyl-N-benzylammonium chloride (CAS No. 8001-54-5)	1.62	None established
N,N-Dimethyl-1-octylamine-N-oxide (CAS No. 2605-78-9)	0.8	None established
Ethylenediaminetetraacetic acid, trisodium salt (CAS No. 150-38-9)	0.93	None established
Ethanol (CAS No. 64-17-5)	1.0	1000 ppm (OSHA-PEL) 1000 ppm (ACGIH-TWA)
Water (CAS No. 7732-18-5)	93.2	None established

## SECTION 3 - HAZARDS IDENTIFICATION

**Effects of Overexposure:**

Based on information available for similar products, it is anticipated that direct eye contact will produce severe irritation and/or burns, and direct skin contact will produce severe irritation, which, upon prolonged contact, may produce skin burns. Solvent vapors or mists of product can produce irritation of the 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. Prolonged inhalation of solvent vapors may produce drowsiness, lassitude and inability to concentrate.

**Overexposure May Aggravate Existing Conditions:**  
No effects indicated.

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SECTION 4 - FIRST AID MEASURES
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- Eyes:** Immediately flush eyes with water for at least 15 minutes while holding eyelids open. Call a physician. If physician not available, flush for additional 15 minutes. Transport to medical care.
- Skin:** For skin contact remove contaminated clothing, flush exposed area with large amounts of running water and soap if available, for 15 minutes. If irritation persists, get 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.
- Ingestion:** If swallowed, immediately give 3 - 4 glasses of milk (if unavailable, give water). DO NOT induce vomiting. If vomiting occurs, give fluids again. Get immediate medical attention. 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.

Chemicals Listed as Carcinogen By: (YES or NO)  
 National Toxicology Program - NO  
 I.A.R.C. - NO  
 OSHA - NO

**Note to Physician:**

Possible mucosal damage may contraindicate the use of gastric lavage. Measure against circulatory shock, as well as oxygen and measures to support breathing manually or mechanically may be needed.

SECTION 5 - FIRE FIGHTING MEASURES
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- Flash Point:** >200° F
- Flammable Explosive Limits:** Lower: N/A Upper: N/A
- Extinguishing Media:** CO<sub>2</sub> Dry Chemical Foam Water Fog
- Unusual Fire and Explosion Hazards:** Products of combustion are toxic.
- Special Fire Fighting Procedures:** Must wear NIOSH/MSHA approved self-contained breathing apparatus and protective clothing. Cool fire-exposed containers with water spray.

SECTION 6 - ACCIDENTAL RELEASE MEASURES
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**CAUTION:** Wear appropriate protective gear and respiratory protection 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.

Dispose of in compliance with all federal, state and local laws and regulations

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.

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SECTION 7 - HANDLING AND STORAGE
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**Handling:** Do not take internally. Prevent eating, drinking, tobacco use and cosmetic application in areas where there is a potential for exposure to the material. Avoid contact with eyes, skin and clothing. Avoid inhalation of dusts or vapors. Wear appropriate chemical protective clothing and equipment. Always wash thoroughly after handling.

**Storage:** Keep from freezing. Keep container closed when not in use.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION
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**Engineering Controls:** Local exhaust ventilation recommended.

**Respiratory Protection:** Where excess concentration of product is expected, a NIOSH approved air supplied respirator is advised in absence of proper environmental control.

**Eye Protection:** Splash proof goggles where possible eye contamination exists.

**Skin Protection:** Wear rubber gloves that are chemically resistant to this product.

**Other Protective Clothing or Equipment:** Wear boots, gloves, apron, etc. sufficient to prevent bodily contact. Eye bath, safety shower & washing facilities should be available.

**Hygienic Practices:** Avoid contact with eyes, skin and clothing. Avoid inhalation of contaminant. Wash thoroughly after handling. Do not eat, drink, use tobacco products, chew gum or apply cosmetics in area where there is potential for exposure to this material.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES
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**Appearance:** Yellow to Green colored liquid  
**Odor:** Mild fragrance  
**Boiling Point:** Not known  
**pH:** 7.2 - 8.2  
**Specific Gravity:** (Water = 1) 1.0  
**Freeze Point:** Not known  
**Vapor Pressure:** (mm Hg) Not known  
**Vapor Density:** (Air = 1) Not known  
**Solubility in Water:** Soluble  
**Viscosity:** <100 cps @ 25° C  
**Percent Volatile** (by weight) 94.2  
**Evaporation Rate:** (Butyl Acetate = 1) Not known

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**SECTION 10 - STABILITY AND REACTIVITY**

Chemical Stability: Stable under normal conditions. Conditions to avoid: None known.

Incompatibility: Strong oxidizing or reducing agents.

Hazardous Decomposition: Thermal decomposition may produce toxic vapors/ fumes of hydrogen chloride, amines and other organic materials, and oxides of carbon and nitrogen.

Hazardous Polymerization: Will not occur.

**SECTION 11 - DISPOSAL CONSIDERATIONS**

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

**SECTION 12 - TRANSPORTATION INFORMATION**

DOT Proper Shipping Name: Not Regulated

DOT Technical Name: N/A

DOT Hazard Class: Non-hazardous

DOT Label: None

**SECTION 13 - OTHER INFORMATION**

HMIS Rating: Health: 2 Flammability: 1 Reactivity: 0

**SECTION 14 - TOXICOLOGY INFORMATION**

No Toxicity information available for this product.. The toxicity information provided below is for closely related products:

Acute:

For Lonza Formulation S-38 (an alkaline formulation containing 3.8% active quat) :

- oral LD<sub>50</sub> (rat) : 1850 mg/kg
- dermal LD<sub>50</sub> (rabbit) : 4430 mg/kg
- eye irritation (rabbit - 1:64 aqueous dilution) : Essentially non-irritating
- skin irritation (rabbit - 1:64 dilution) : Non-irritant

For Lonza Formulation S-23 (an alkaline formulation with 4.0% active quat) :

- eye irritation (rabbit) : Severe eye irritant, with or without washing.

For Lonza Formulation S-21 (an alkaline formulation with 5.5% active quat) :

- skin corrosivity (DOT method) : Not corrosive.

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SECTION 15 - MISCELLANEOUS AND REGULATORY INFORMATION
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## FEDERAL LEVEL REGULATIONS:

## Toxic Substance Control Act (TSCA Inventory) Status:

Found on U.S. EPA TSCA inventory. While the CAS number 8001-54-5 is not listed on the U.S. EPA TSCA inventory, an alternative CAS number for this material (68424-85-1) is listed on the TSCA inventory.

## 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>
EXEMPT - EPA FIFRA Registered Product		

## US EPA Regulation on Pesticides:

This is an EPA registered pesticide (EPA Registration No. 47371-131). This material can only be used commercially in the EPA registered application(s) noted on the product label.

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 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-Didecyl-N,N-dimethylammonium chloride	7173-51-5	A
N-Alkyl (C <sub>12-16</sub> ) -N,N-dimethyl-N-benzylammonium chloride	8001-54-5	A
N,N-Dimethyl-1-octylamine-N-oxide	2605-78-9	A
Ethanol	64-17-5	F

\*) 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.

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MISCELLANEOUS AND REGULATORY INFORMATION (continued)
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## FEDERAL LEVEL REGULATIONS (continued) :

SARA title III Section 313 - This act requires submission of annual reports off the release 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:

AS A CANCER HAZARD		
<u>Chemical Name</u>	<u>CAS Number</u>	<u>Typical Maximum Concentration</u>
Acetaldehyde	75-07-0	80 ppb
Benzene	71-43-2	4 ppm
Benzyl chloride	100-44-7	8 ppm
N - Nitrosodimethylamine	62-75-9	40 ppb
Propylene oxide	75-56-9	800 ppb

AS A CANCER HAZARD		
<u>Chemical Name</u>	<u>CAS Number</u>	<u>Typical Maximum Concentration</u>
Benzene	71-43-2	4 ppm
Toluene	108-88-3	4 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>
Acetaldehyde	75-07-0	75 ppb
Benzene	71-43-2	4 ppm
Benzyl chloride	100-44-7	8 ppm
Ethanol	64-17-5	1 %
Hydrogen Peroxide	7722-84-1	15 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>	<u>Typical Maximum Concentration</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>
Ethanol	64-17-5	1 %

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MISCELLANEOUS AND REGULATORY INFORMATION (continued)
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## STATE RIGHT - TO - KNOW REGULATIONS (continued)

PENNSYLVANIA Right-to-Know - The following components of the 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	1 %

The information provided in this Material Safety Data Sheet is based on characteristics of the individual components, and is correct to the best of our knowledge. However, the data is provided without guarantee or representation as to the results. Since the conditions of handling, storage and disposal of this product are beyond our control, it is the responsibility of the user both to determine safe conditions for use of this product and to assume full responsibility for loss, injury and expense arising out of the product's improper use. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any process.

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