

SAFETY DATA SHEET



Issue Date 05-Mar-2009

Revision Date 07-Mar-2013

Version 1

1. IDENTIFICATION

Product Identifier

Product Name DISINFECTANT 64 FA

Other Means of Identification

SDS # KI-002

Recommended Use of the Chemical and Restrictions on Use

Recommended Use Liquid Detergent.

Details of the Supplier of the Safety Data Sheet

Supplier Address

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

Emergency Telephone Number

Company Phone Number Handling 251-626-3083
Technical 866-536-4225
Emergency Telephone INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Classification

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2

Signal Word

Danger

Hazard Statements

Harmful if inhaled
Causes skin irritation

**Appearance** Clear to blue colored liquid**Physical State** Liquid**Odor** Mild fragrance**Precautionary Statements - Prevention**

Avoid breathing dust/fume/gas/mist/vapors/spray
 Use only outdoors or in a well-ventilated area
 Wash face, hands and any exposed skin thoroughly after handling
 Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

IF ON SKIN: Wash with plenty of soap and water
 If skin irritation occurs: Get medical advice/attention
 Take off contaminated clothing and wash before reuse
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 Immediately call a POISON CENTER or doctor/physician

Hazards Not Otherwise Classified (HNOC)

Not Applicable

Other Information

Not Applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Water	7732-18-5	>93
Didecyldimethylammonium chloride	7173-51-5	<3
N-Alkyl-N-benzyl-N,N-dimethylammonium chloride	8001-54-5	<3
Ethanol	64-17-5	<3
Ethylenediaminetetraacetic acid trisodium salt	150-38-9	<1
N,N-DIMETHYLOCTYLAMINE-N-OXIDE	2605-78-9	<1

4. FIRST AID MEASURES

First Aid Measures**General advice**

If exposed or concerned: Get medical advice/attention.

Inhalation

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Immediate medical attention is required.

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician. If a physician is not available, flush for an additional 15 minutes. Transport to medical care.

Ingestion If swallowed, immediately give 3-4 glasses of milk (if unavailable, give water). Do NOT induce vomiting. If vomiting occurs, give fluids again. Immediate medical attention is required. If drowsy or unconscious, do not give anything by mouth; place individual on the left side with head down.

Skin Contact Wash off immediately with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention if irritation develops or persists.

Most Important Symptoms and Effects, both Acute and Delayed

Symptoms Causes skin irritation. Causes eye irritation. May cause redness, pain, and severe skin burns. Will cause irritation to the respiratory system. When concentrate is ingested, immediate burning pain in the mouth, throat, abdomen and possible severe swelling of the larynx. Prolonged inhalation of vapors may produce drowsiness, lassitude, and inability to concentrate.

Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians Treat symptomatically. 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.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water spray (fog). Carbon dioxide (CO₂). Dry chemical. Alcohol resistant foam.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Toxic products of combustion. Cool surrounding equipment, fire-exposed containers, and structures with water.

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

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool containers/ tanks with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions Use personal protective equipment as required.

Environmental Precautions See Section 12 for additional ecological information.

Methods and Material for Containment and Cleaning Up

Methods for Containment Dike and contain spill with inert material (sand, earth, etc). Keep spill out of sewers and open bodies of water.

Methods for Cleaning Up Transfer the liquid and solid separately to containers for recovery or disposal.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Advice on Safe Handling Do not take internally. Avoid contact with skin, eyes or clothing. Avoid inhalation of dusts or vapors. Wear appropriate personal protective equipment. Wash face, hands, and any exposed skin thoroughly after handling. Do not eat, drink, smoke, or apply cosmetics while handling this product. Use only in well-ventilated areas.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions Keep container closed when not in use. Keep from freezing. Store locked up.

Incompatible Materials Strong oxidizing agents. Strong reducing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethanol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m ³ (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m ³	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m ³

Appropriate Engineering Controls

Engineering Controls Showers
Eyewash stations
Ventilation systems. Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS.

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection Splash goggles or safety glasses.

Skin and Body Protection Wear rubber or chemical resistant gloves to prevent skin contact.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations Do not eat, drink or smoke when using this product. Regular cleaning of equipment, work area and clothing is recommended. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	Liquid	Odor	Mild fragrance
Appearance	Clear to blue colored liquid	Odor threshold	Not determined
Color	Clear Blue		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	7.2-8.2	
Melting point/freezing point	Not determined	
Boiling point/boiling range	Not determined	
Flash point	>93.3 °C / > 200 °F	
Evaporation rate	Not known	

Flammability (solid, gas)	N/A- Liquid	
Flammability limits in air		
Upper flammability limits	Not applicable	
Lower flammability limit	Not applicable	
Vapor pressure	Not known	
Vapor density	Not known	
Specific gravity	1.0	(1=Water)
Water solubility	Soluble in water	
Solubility in other solvents	Not determined	
Partition coefficient	Not determined	
Autoignition temperature	Not determined	
Decomposition temperature	Not determined	
Kinematic viscosity	Not determined	
Dynamic viscosity	<100 cps	@ 77°F (25°C)
Explosive properties	Not determined	
Oxidizing Properties	Not determined	

Other Information

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions

Chemical Stability

Stable under normal conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization

Hazardous polymerization does not occur.

Conditions to Avoid

None known.

Incompatible Materials

Strong oxidizing agents. Strong reducing agents.

Hazardous Decomposition Products

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

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure**Product Information****Inhalation**

Harmful if inhaled.

Eye Contact

May cause eye irritation on direct contact. Vapor may cause irritation.

Skin Contact

Cause skin irritation.

Ingestion

May cause damage to mucuous members, nausea, vomiting, and shock symptoms.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Didecyldimethylammonium chloride 7173-51-5	= 84 mg/kg (Rat)	-	-
N-Alkyl-N-benzyl-N,N-dimethylammonium chloride 8001-54-5	= 240 mg/kg (Rat)	-	-
Ethanol 64-17-5	= 7060 mg/kg (Rat)	-	= 124.7 mg/L (Rat) 4 h
Ethylenediaminetetraacetic acid trisodium salt 150-38-9	= 2150 mg/kg (Rat)	-	-

Information on Physical, Chemical and Toxicological Effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

Carcinogenicity Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage.

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethanol 64-17-5	A3	Group 1	Known	X

ACGIH (American Conference of Governmental Industrial Hygienists)
A3 - Animal Carcinogen
IARC (International Agency for Research on Cancer)
Group 1 - Carcinogenic to Humans
NTP (National Toxicology Program)
Known - Known Carcinogen
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
X - Present

Numerical Measures of Toxicity- Product

Not determined

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 8509 mg/kg
ATEmix (inhalation-dust/mist) 3.1 mg/l
ATEmix (inhalation-vapor) 12470 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
N-Alkyl-N-benzyl-N,N-dimethylammonium chloride 8001-54-5		0.223 - 0.46: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 0.823 - 1.61: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static 2.4: 96 h <i>Oryzias latipes</i> mg/L LC50 semi-static 1.3: 96 h <i>Poecilia reticulata</i> mg/L LC50 semi-static		

Ethanol 64-17-5		12.0 - 16.0: 96 h Oncorhynchus mykiss mL/L LC50 static 100: 96 h Pimephales promelas mg/L LC50 static 13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through		9268 - 14221: 48 h Daphnia magna mg/L LC50 10800: 24 h Daphnia magna mg/L EC50 2: 48 h Daphnia magna mg/L EC50 Static
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Persistence and Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Not determined.

Chemical Name	Partition coefficient
Ethanol 64-17-5	-0.32

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations. Triple rinse with water and dispose of container. Offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or, if allowed by state or local authorities, by burning.

Chemical Name	California Hazardous Waste Status
Ethanol 64-17-5	Toxic Ignitable

14. TRANSPORT INFORMATION

Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances

DOT

Not regulated

IATA

Not regulated

IMDG

Not regulated

15. REGULATORY INFORMATION

International Inventories

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances IECSC
- China Inventory of Existing Chemical Substances KECL -
Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances

US Federal Regulations

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

US State Regulations

Chemical Name	California Proposition 65
Ethanol - 64-17-5	Carcinogen Developmental

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ethanol 64-17-5	X	X	X

U.S. EPA Label Information

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards
	2	1	1	Not determined
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	2	1	0	Not determined

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Revision Note

New format

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet