

Safety Data Sheet

Issue Date: 02-May-2011 Revision Date: 17-Dec-2014 Version 1

1. IDENTIFICATION

Product Identifier

Product Name SK-144

Other means of identification

SDS # SK-144

UN/ID No UN1903

Recommended use of the chemical and restrictions on use

Recommended Use Sanitizer.

Details of the supplier of the safety data sheet

Supplier Address

StartKleen 193 Wall Street Road Gunter, Texas 75058

Emergency Telephone Number

Company Phone Number Emergency Telephone (24 hr) Information: 903-207-1079, 7AM - 6PM M-F INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Clear, colorless to

straw-colored liquid

Physical State Liquid

Odor Benzaldehyde

Classification

Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1

Signal Word Danger

Hazard Statements

Causes severe skin burns and eye damage



Precautionary Statements - Prevention

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a poison center or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

Get medical attention

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 IF SWALLOWED: rinse mouth. Do NOT induce vomiting Immediately call a poison center or doctor/physician

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other Hazards

Toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Alkyl dimethyl benzyl ammonium chloride (C12-16)	68424-85-1	3.5-5.5
Ethyl Alcohol	64-17-5	1-3
Didecyldimethylammonium chloride	7173-51-5	1-2.5

^{**}If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.**

4. FIRST-AID MEASURES

First Aid Measures

Eye Contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Immediately call a poison center or

doctor/physician.

Skin Contact IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin

with water/shower. Wash contaminated clothing before reuse. Get medical attention.

Inhalation 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. If not breathing, give

artificial respiration.

Ingestion IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Drink 1 or 2 glasses of water.

Immediately call a poison center or doctor/physician. Never give anything by mouth to an

unconscious person.

Most important symptoms and effects

Symptoms Eye contact causes corrosive burns and may result in permanent damage including

blindness. Skin contact causes corrosive burns; brief exposures may cause irritation and defatting of skin. Ingestion can cause symptoms of gastrointestinal irritation such as nausea, vomiting, and diarrhea. Inhalation of mist and vapors can irritate the throat and respiratory tract. High vapor concentrations may cause symptoms of central nervous

system effects such as headaches, dizziness, and drowsiness.

Indication of any immediate medical attention and special treatment needed

Notes to Physician If the product is ingested, probable mucosal damage may contraindicate the use of gastric

lavage.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Product is not flammable. This product is corrosive and may present a contact hazard to firefighters.

Hazardous Combustion Products Carbon monoxide. Carbon dioxide (CO2). Toxic hydrogen chloride vapors.

Sensitivity to Static Discharge Take precautionary measures against static discharge.

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protection recommended in Section 8.

Environmental Precautions Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See

Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Clean-UpContain and collect with an inert absorbent and place into an appropriate container for

disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Use personal

protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Wash face,

hands, and any exposed skin thoroughly after handling. Do not breathe

dust/fume/gas/mist/vapors/spray. Ground all equipment to prevent buildup of static charge.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed and store in a cool, dry and well-ventilated place. Keep from

freezing. Store locked up.

Incompatible Materials Strong oxidizing agents. Reducing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

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

Appropriate engineering controls

Engineering Controls Ensure adequate ventilation, especially in confined areas. Eyewash stations. Showers.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear chemical goggles. Use face shield if splashing is possible.

Skin and Body ProtectionWear impervious gloves such as rubber or neoprene. Wear suitable protective clothing.

Respiratory Protection Ensure adequate ventilation, especially in confined areas. Use NIOSH/MSHA approved

respiratory protection equipment when airborne exposure limits are exceeded.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Liquid

AppearanceClear, colorless to straw-colored liquidOdorBenzaldehydeColorClear, colorless to straw-coloredOdor ThresholdNot determined

Property Values Remarks • Method

pH 6.0 - 8.0

Melting Point/Freezing Point

Boiling Point/Boiling Range

Not determined

Not determined

Flash Point None Cleveland Open Cup

Evaporation Rate
Flammability (Solid, Gas)
Upper Flammability Limits
Lower Flammability Limit
Vapor Pressure

Not determined
Not determined
Not determined
Not determined

Vapor Density Estimated to be heavier than air

Specific Gravity 0.9895

Water Solubility Not determined Solubility in other solvents Not determined **Partition Coefficient** Not determined **Auto-ignition Temperature** Not determined **Decomposition Temperature** Not determined **Kinematic Viscosity** Not determined **Dynamic Viscosity** Not determined **Explosive Properties** Not determined **Oxidizing Properties** Not determined

VOC Content 1.5%

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid

Keep separated from incompatible substances. Avoid contact with heat. Keep out of reach of children.

Incompatible Materials

Strong oxidizing agents. Reducing agents.

Hazardous Decomposition Products

Carbon monoxide. Carbon dioxide (CO2). Toxic hydrogen chloride vapors.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact Causes severe eye damage.

Skin Contact Causes severe skin burns.

Inhalation Avoid breathing vapors or mists.

Ingestion Do not ingest.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Alkyl dimethyl benzyl ammonium chloride (C12-16)	= 426 mg/kg (Rat)	-	-
68424-85-1			
Ethyl Alcohol 64-17-5	= 7060 mg/kg (Rat)	-	= 124.7 mg/L (Rat) 4 h
Didecyldimethylammonium chloride 7173-51-5	= 84 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

The ingredient in this product is only classified as a carcinogen when consumed as an

alcoholic beverage in long-term studies.

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethyl Alcohol	A3	Group 1	Known	X
64-17-5		·		

Legend

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)

Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life with long lasting effects.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Ethyl Alcohol		12.0 - 16.0: 96 h	EC50 = 34634 mg/L 30 min	9268 - 14221: 48 h Daphnia
64-17-5		Oncorhynchus mykiss mL/L	EC50 = 35470 mg/L 5 min	magna mg/L LC50 10800: 24
		LC50 static 100: 96 h		h Daphnia magna mg/L
		Pimephales promelas mg/L		EC50 2: 48 h Daphnia
		LC50 static 13400 - 15100:		magna mg/L EC50 Static
		96 h Pimephales promelas		
		mg/L LC50 flow-through		

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Chemical Name	Partition Coefficient
Ethyl Alcohol	-0.32
64-17-5	

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.

California Hazardous Waste Status

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

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

DOT

UN/ID No UN1903

Proper Shipping Name Disinfectant, liquid, corrosive, n.o.s. (Quaternary Ammonium Compounds)

Hazard Class 8
Packing Group || |

<u>IATA</u>

UN/ID No UN1903

Proper Shipping Name Disinfectant, liquid, corrosive, n.o.s. (Quaternary Ammonium Compounds)

Hazard Class 8
Packing Group ||

<u>IMDG</u>

UN/ID No UN1903

Proper Shipping Name Disinfectant, liquid, corrosive, n.o.s. (Quaternary Ammonium Compounds)

Hazard Class 8
Packing Group II

Marine Pollutant This material may meet the definition of a marine pollutant

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Alkyl dimethyl benzyl	Present	Χ		Present		Present	Χ	Present	Χ	Х
ammonium chloride (C12-16)										
Ethyl Alcohol	Present	Χ		Present		Present	Χ	Present	Χ	Х
Didecyldimethylammonium chloride	Present	Х		Present		Present	Х	Present	Х	Х

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

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Ethyl Alcohol - 64-17-5	Carcinogen
	Developmental

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ethyl Alcohol	X	X	X
64-17-5			

16. OTHER INFORMATION

NFPA_	Health Hazards	Flammability	Instability	Special Hazards
	3	0	0	Not determined
HMIS_	Health Hazards	Flammability	Physical Hazards	Personal Protection
	3	0	0	В

Issue Date:02-May-2011Revision Date:17-Dec-2014Revision 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