

SAFETY DATA SHEET
 Korex Chicago
 6200 W. 51st St., Building "E", Chicago, IL
 60638

PRODUCT: Member's Mark Sanitizer

SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Supplier Identifier..... Korex Chicago
 6200 W. 51st St, Bldg. "E"
 Chicago, IL
 60638
 1-708-458-4890
 Recommended Use..... Sanitizer
 Chemical Family..... Mixture
 Emergency telephone number. CHEMTREC (800) 424-9300 (transport); Korex 1-866-767-5045 (First Aid)

SECTION 02: HAZARDS IDENTIFICATION

Physical hazards Not classified
 Health hazards Skin corrosion/irritation..... Category 2
 Serious eye damage/irritation..... Category 2A
 Environmental hazards..... Hazardous to the aquatic environment, long-term hazard.. Category 1
 OSHA defined hazards..... Not classified



Signal word..... Warning
 Hazard statement Causes skin irritation.
 Causes serious eye irritation.
 Very toxic to aquatic life.
 Toxic to aquatic life with long lasting effects.
 Prevention Wash thoroughly after handling.
 Avoid release to the environment.
 Wear eye protection/face protection.
 Wear protective gloves.
 Response If on skin: Wash with plenty of water.
 If skin irritation occurs: Get medical advice/attention.
 Take off contaminated clothing and wash it before reuse.
 Collect spillage.
 If in eyes: Rinse cautiously with water for several minutes.
 Remove contact lenses, if present and easy to do.
 Continue rinsing.
 If eye irritation persists: Get medical advice/attention.
 Storage..... Store away from incompatible materials.
 Disposal..... Dispose of contents/container in accordance with local/regional/national/international regulations.
 Supplemental Information..... 1% of the mixture consists of component(s) of unknown acute inhalation toxicity.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

<u>Chemical Name</u>	<u>CAS Number</u>	<u>%</u>
Quaternary Ammonium Compounds	68424-85-1	1 - <3
Benzyl-C12-C16-alkyldimethyl Chlorides		
Other components below reportable levels		90 - 100

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SECTION 04: FIRST AID MEASURES

Inhalation	Move to fresh air.
.....	Call a physician if symptoms develop or persist.
Skin contact	Remove contaminated clothing.
.....	Wash with plenty of soap and water.
.....	If skin irritation occurs:
.....	Get medical advice/attention.
.....	Wash contaminated clothing before reuse.
Eye contact.....	Immediately flush eyes with plenty of water for at least 15 minutes.
.....	Remove contact lenses, if present and easy to do.
.....	Continue rinsing.
.....	Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth.
.....	Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	
.....	Severe eye irritation.
.....	Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
.....	Skin irritation.
.....	May cause redness and pain.
Indication of immediate medical attention and special treatment needed	
.....	Provide general supportive measures and treat symptomatically.
.....	Keep victim under observation.
.....	Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

SECTION 05: FIRE FIGHTING MEASURES

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	
.....	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Firefighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	
.....	Keep unnecessary personnel away.
.....	Keep people away from and upwind of spill/leak.
.....	Wear appropriate protective equipment and clothing during clean-up.
.....	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
.....	Ensure adequate ventilation.
.....	Local authorities should be advised if significant spillages cannot be contained.
.....	For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	
.....	This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.
.....	Large Spills:
.....	Stop the flow of material, if this is without risk.
.....	Dike the spilled material, where this is possible.
.....	Absorb in vermiculite, dry sand or earth and place into containers.
.....	Following product recovery, flush area with water.
.....	Small Spills:
.....	Wipe up with absorbent material (e.g. cloth, fleece).
.....	Clean surface thoroughly to remove residual contamination.
.....	Never return spills to original containers for re-use.
.....	For waste disposal, see section 13 of the SDS.

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Environmental precautions Avoid release to the environment.
..... Inform appropriate managerial or supervisory personnel of all environmental releases.
..... Prevent further leakage or spillage if safe to do so.
..... Avoid discharge into drains, water courses or onto the ground.

SECTION 07: HANDLING AND STORAGE

Safe Handling Avoid contact with eyes, skin, and clothing.
..... Provide adequate ventilation.
..... Wear appropriate personal protective equipment.
..... Avoid release to the environment.
..... Observe good industrial hygiene practices.

Safe Storage Store in tightly closed container.
..... Store away from incompatible materials (see Section 10 of the SDS).

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

Biological limit values No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls Good general ventilation should be used.
..... Ventilation rates should be matched to conditions.
..... If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.
..... If exposure limits have not been established, maintain airborne levels to an acceptable level.
..... Provide eyewash station and safety shower.

Individual protection measures, such as personal protective equipment

- Eye/face protection Wear safety glasses with side shields (or goggles).
..... Face shield is recommended.
- Skin protection
 - Hand protection Wear appropriate chemical resistant gloves.
 - Other Wear appropriate chemical resistant clothing.
..... Use of an impervious apron is recommended.
- Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.
- Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking.
..... Routinely wash work clothing and protective equipment to remove contaminants.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance Clear

- Physical state Liquid
- Form Liquid
- Color Colorless

Odor Not available

Odor threshold Not available

pH 6 - 8 in 1% Aqueous Solution

Melting point/freezing point Not available.

Initial boiling point and boiling range 211.1 °F (99.5 °C)

Flash point Not available

Evaporation rate Not available

Flammability (solid, gas) Not applicable

Upper/lower flammability or explosive limits

- Flammability limit - lower (%) Not available
- Flammability limit - upper (%) Not available
- Explosive limit - lower (%) Not available
- Explosive limit - upper (%) Not available

Vapor pressure Not available

Vapor density Not available

Relative density Not available

Solubility(ies)

- Solubility (water) Not available

Partition coefficient (n-octanol/water) Not available

Auto-ignition temperature Not available

Decomposition temperature Not available

Viscosity Not available

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Other information

Explosive properties Not explosive
 Oxidizing properties Not oxidizing
 Specific gravity 0.9982
 VOC 0.3 % estimated

SECTION 10: STABILITY AND REACTIVITY

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.
 Chemical stability The product is stable under normal conditions.
 Possibility of hazardous reactions Hazardous polymerization does not occur.
 Conditions to avoid Avoid temperatures exceeding the decomposition temperature.
 Contact with incompatible materials.
 Incompatible materials Strong oxidizing agents.
 Hazardous decomposition products No hazardous decomposition products are known.

SECTION 11: TOXICOLOGICAL INFORMATION

Route of Exposure:

Inhalation No adverse effects due to inhalation are expected.
 Skin contact Causes skin irritation.
 Eye contact Causes serious eye irritation.
 Ingestion Health injuries are not known or expected under normal use.

Symptoms related to the physical, chemical and toxicological characteristics

..... Severe eye irritation.
 Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
 Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity Not known.

Components

Species

Test Results

Quaternary Ammonium Compounds, Benzyl-C12-C16-alkyldimethyl, Chlorides (CAS 68424-85-1)

Acute

Dermal

LD50

3560

Oral

LD50

430

Skin corrosion/irritation Causes skin irritation.
 Serious eye damage/irritation Causes serious eye irritation.
 Respiratory or skin sensitization
 Respiratory sensitization Not a respiratory sensitizer.
 Skin sensitization This product is not expected to cause skin sensitization.
 Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
 Carcinogenicity Not classifiable as to carcinogenicity to humans.
 IARC Monographs. Overall Evaluation of Carcinogenicity
 Not listed.
 OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)
 Not listed.
 US. National Toxicology Program (NTP) Report on Carcinogens
 Not listed.
 Reproductive toxicity This product is not expected to cause reproductive or developmental effects.
 Specific target organ toxicity -single exposure
 Not classified.
 Specific target organ toxicity -repeated exposure
 Not classified.
 Aspiration hazard Not an aspiration hazard.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity Very toxic to aquatic life.
 Toxic to aquatic life with long lasting effects.

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<u>Components</u>	<u>Species</u>	<u>Test Results</u>
Quaternary Ammonium Compounds, Benzyl-C12-C16-alkyldimethyl, Chlorides (CAS 68424-85-1)		
<u>Aquatic</u>		
<i>Acute</i>		
Fish	LC50	Bluegill (<i>Lepomis macrochirus</i>) 0.515 mg/l
<i>Chronic</i>		
Crustacea	NOEL	Daphnia 0.0042 mg/l
Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.	
Bioaccumulative potential		
Mobility in soil	No data available.	
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.	

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal instructions.....	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container.
Local disposal regulations	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazardous waste code	Dispose in accordance with all applicable regulations. The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: TRANSPORT INFORMATION

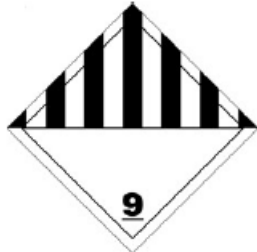
DOT.....	Not regulated as dangerous goods.
PRODUCT UPC SIZE – 1 GALLON Non regulated: DOT 49 CFR 171.4 IATA SP A197 from 7.1.5.3 IMDG 2.10.2.7	
DOT (BULK)	
UN number	UN3082
UN proper shipping name.....	Environmentally hazardous substances, liquid, n.o.s. (Quaternary Ammonium Compounds), MARINE POLLUTANT
Transport hazard class(es)	
Class	9
Label(s)	9
Packing group.....	III
Environmental hazards	
Marine pollutant	Yes
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions.....	8, 146, 173, 335, IB3, T4, TP1, TP29
Packaging exceptions.....	155
Packaging non bulk	203
Packaging bulk	241
IATA	
UN number	UN3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Quaternary Ammonium Compounds)
Transport hazard class(es)	
Class	9
Subsidiary risk.....	-
Packing group.....	III
Environmental hazards.....	Yes
ERG Code	9L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft ...	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.
IMDG	
UN number	UN3082
UN proper shipping name.....	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Quaternary Ammonium Compounds), MARINE POLLUTANT
Transport hazard class(es)	
Class	9
Subsidiary risk.....	-

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Packing group..... III
 Environmental hazards
 Marine pollutant..... Yes
 EmS..... F-A, S-F
 Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not established.
 DOT Bulk packaging type; IATA; IMDG



Marine pollutant



General Information..... IMDG Regulated Marine Pollutant.
 DOT Regulated Marine Pollutant.

SECTION 15: REGULATORY INFORMATION

CERCLA (Superfund) reportable quantity, lbs
 Not listed.
 US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication
 Standard, 29 CFR 1910.1200.
 Superfund Amendments and Reauthorization Act of 1986 (SARA)
 Classified hazard categories..... Skin corrosion or irritation
 Serious eye damage or eye irritation

 Hazard categories Immediate hazard – Yes
 Delayed hazard – No
 Fire hazard – No
 Pressure hazard – No
 Reactivity hazard - No
 Section 302 extremely hazardous substance .. Not listed.
 SARA 311/312 Hazardous chemical Yes
 SARA 313 (TRI reporting) Not regulated.
 Other federal regulations
 Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
 Not regulated.
 Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
 Not regulated.
 Safe Drinking Water Act (SDWA) Not regulated.
 FIFRA Information This chemical is a pesticide product registered by the Environmental Protection Agency and is
 subject to certain labeling requirements under federal pesticide law. These requirements differ
 from the classification criteria and hazard information required for safety data sheets, and for
 workplace labels of non-pesticide chemicals. Listed below is the hazard information as required
 on the pesticide label.

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International Inventories

<u>Country(s) or region</u>	<u>Inventory name</u>	<u>On inventory (yes/no)*</u>
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
 A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

TSCA Inventory Status All components are listed on the TSCA or exempt.
 OSHA SDS prepared according to Regulation 2012 OSHA Hazard Communication Standard; 29
 CFR Part 1910.1200.

SECTION 16: OTHER INFORMATION

HMIS ® ratings Health: 2
 Flammability: 0
 Physical Hazard: 0

NFPA ratings Health: 2
 Flammability: 0
 Instability: 0

Prepared by Korex Canada Company

Disclaimer..... Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries for consequential damages, which may result from the use or reliance on any information contained in this form.

Preparation Date May 1, 2024