

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

PRODUCT: Member's Mark Lemon Scented Disinfectant Commercial

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..... Disinfectant
..... This product is intended to be diluted prior to use.
..... For further information refer to the EPA Registered product label.
..... Uses other than those identified are not recommended.
..... EPA Registration Number: 10324-113-83973
Product dilution information: Disinfectant: 2 ounces per gallon
..... Refer to EPA registered label for product dilution/application directions for use.
Chemical Family..... Mixture.
Emergency telephone number. CHEMTREC (800) 424-9300 (transport); Korex 1-866-767-5045 (First Aid)

SECTION 02: HAZARDS IDENTIFICATION



Emergency overview
Appearance: Clear solution with characteristic odor
Precautionary statements: Causes severe skin burns and serious eye damage
..... Harmful if swallowed
Hazard Classification..... Serious eye damage/eye irritation Category 1
..... Skin corrosion/irritation Category 1B
..... Acute toxicity (oral) Category 4
..... Acute toxicity (dermal) Category 4
Product at Use-Dilution..... Serious eye damage/irritation Category 2B
Signal Word..... Danger
Hazard Statements..... H302: Harmful if swallowed
..... H312: Harmful in contact with skin
..... H314: Causes severe skin burns and eye damage
Prevention..... P262: Do not get in eyes, on skin, or on clothing
..... P264: Wash affected areas thoroughly after handling
..... P270: Do not eat, drink or smoke when using this product
..... P280: Wear protective gloves and eye, face and foot protection
Response... P301+312+330+331:
..... IF SWALLOWED: Rinse mouth.
..... Call a POISON CENTER or doctor/physician if you feel unwell.
..... Do NOT induce vomiting.
..... P303+P361+P353:
..... IF ON SKIN (or hair):
..... Remove immediately all contaminated clothing.
..... Rinse skin with water
..... P304+P340:
..... IF INHALED:
..... Remove victim to fresh air and keep at rest in a position comfortable for breathing.
..... P305+P351+P338:
..... IF IN EYES:
..... Rinse cautiously with water for several minutes.
..... Remove contact lenses, if present and easy to do.
..... Continue rinsing
..... P310: Immediately call a POISON CENTER or doctor/physician
..... P363: Wash contaminated clothing before reuse

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Storage..... P233: Keep container tightly closed
P234: Keep only in original container
Disposal..... P501: Dispose of contents and container to an approved waste disposal plant

Product at Use-Dilution

Signal Word: Warning
Hazard Statements: H320: Causes eye irritation
Precautionary Statements: Prevention
..... P264: Wash affected areas thoroughly after handling
..... Response
..... P305+P351+P338+P337+P313:
..... 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 attention.

Note..... "Consumer Products", as defined by the US Consumer Product Safety Act and which are used as intended (typical consumer duration and frequency), are exempt from the OSHA Hazard Communication Standard (29 CFR 1910.1200). This SDS is being provided as a courtesy to help assist in the safe handling and proper use of the product.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

Alkyl (C ₁₂₋₁₆) dimethylbenzyl ammonium chloride	68424-85-1	Serious eye damage/eye irritation: Category 1 Skin corrosion/irritation: Category 1B	>=5.39-<=5.90
Octyl decyl dimethyl ammonium chloride	32426-11-2	Acute toxicity (oral): Category 3	
Didecyl dimethyl ammonium chloride	7173-51-5	Acute toxicity (dermal): Category 3; H301, H314, H318	
Dioctyl dimethyl ammonium chloride	5538-94-3		
Tetrasodium EDTA	64-02-8	Serious eye damage/eye irritation: Category 2B Acute toxicity (oral): Category 4; H302, H319	>=0.90 -<=2.63
C9-11 Alcohols ethoxylated	68439-46-3	Serious eye damage/eye irritation: Category 1 Acute toxicity (oral): Category 4; H302, H318	>=0.68-<=0.83
Other components		Not classified	Balance

Product at Use-Dilution

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

SECTION 04: FIRST AID MEASURES

Description of first-aid measures

General advice: Show this material safety data sheet to medical personnel.
..... Do not leave affected person unattended. Isolate exposed apparel for laundry before re-use.
Eye contact: Rinse eyes with water.
..... Remove any contact lenses, and continue flushing eyes with running water for at least 15 min.
..... Hold eyelids apart to ensure rinsing of the entire surface of the eyes and lids with water.
..... Seek medical attention if irritation develops or persists.
Skin contact: Take off contaminated clothing and shoes immediately.
..... Wash affected areas with plenty of water.
..... Seek medical attention if irritation develops or persists.
Ingestion: Do NOT induce vomiting.
..... Do not give anything by mouth to an unconscious or convulsing person.
..... Rinse mouth with water.
..... Seek medical attention.
If inhaled: Remove from area to fresh air.
..... Seek medical attention if respiratory irritation develops or if breathing becomes difficult.

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Product at Use-Dilution:

Eye contact:..... Rinse cautiously with water for several minutes.
..... Remove contact lenses, if present and easy to do.
..... Continue rinsing.
..... Get medical attention if irritation persists.
Skin contact:..... No known effect after skin contact.
..... Rinse with water for a few minutes.
Ingestion:..... Get medical attention if symptoms occur.
If inhaled:..... No special measures required.
..... Treat symptomatically.

Most important symptoms and effects, both acute and delayed

Risks:..... The most important known symptoms and effects are described in the labeling (section 2.2)
..... and/or in section 11.
Corrosive effects:..... Symptoms may include stinging, tearing, redness, swelling and blurred vision.
..... Permanent eye damage including blindness could result.
..... Prolonged or repeated skin contact may aggravate existing skin conditions.
..... Inhalation of mists may aggravate existing chronic respiratory conditions such as asthma,
..... emphysema or bronchitis.

Indication of any immediate medical attention and special treatment needed

Note to physician:..... All treatments should be based on observed signs and symptoms of distress in the patient.
..... Consideration should be given to the possibility that overexposure to materials other than this
..... product may have occurred.
..... Treat symptomatically.
Medical attention and special treatment:..... In the event of an incident involving this product ensure that medical authorities are provided
..... a copy of this safety data sheet.

SECTION 05: FIRE FIGHTING MEASURES

Extinguishing media The product is not flammable
..... Use media suitable for the material that is burning
Unsuitable extinguishing media:..... No data available

Special hazards during firefighting:..... Container may rupture on heating
On combustion or on thermal decomposition: May include carbon oxides, nitrogen oxides

Special protective equipment for firefighters:..... As in any fire, wear NIOSH/MSHA approved, pressure-demand self-contained
..... breathing apparatus and full protective gear.
Specific firefighting methods:..... No special methods required. Move containers from area if it can be done without risk.
..... Cool fire-exposed containers with water from side.
..... Contain the extinguishing fluids by diking.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Personal Precautions Spill area may be slippery. Wear appropriate protective equipment (See Section 8).
Environmental precautions Avoid contact of spilled material and runoff with soil and surface waterways
Methods and material for containment
Recovery: Stop leak if safe to do so. Absorb spills with vermiculite, fuller's earth, or sand.
..... Shovel up and place in a non- metal waste container for disposal.
..... Dike large spills with soil or sandbags to contain it and prevent its spread.
..... Keep in suitable, properly labeled, closed containers for disposal.
Decontamination/cleaning: Wash non-recoverable remainder with large amounts of water.
..... Clean contaminated surfaces thoroughly.
..... Recover the cleaning water for subsequent disposal.
Disposal:..... Dispose of in accordance with local regulations
Additional advice: Spill area may be slippery

Product as Use-Dilution..... Use a water rinse for final clean-up

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SECTION 07: HANDLING AND STORAGE

Safe Handling

Technical measures: Does not require any specific or particular measures
Advice on safe handling and usage: Wear appropriate protective equipment including long chemical resistant gloves, chemical splash goggles and protective footwear.
..... Handle in accordance with good industrial hygiene and safety practice.
..... Do not spray toward face. Wash affected areas after use.
..... Do not taste or swallow. Avoid breathing vapors or mists.
..... Use only with adequate ventilation.
..... Product residue may remain on/in empty containers.
..... All precautions for handling the product must be used in handling the empty container and residue.
..... FOR COMMERCIAL AND INDUSTRIAL USE ONLY.

Product at Use-Dilution Avoid contact with eyes, skin and clothing.
..... Wash thoroughly after handling.

Safe Storage

Technical measures for storage: Does not require any specific or particular measures
Storage class (TRGS 510): Non-combustible, corrosive materials

Storage conditions

Recommended: Keep container tightly closed.
..... Opened containers must be carefully resealed and kept upright to prevent leakage.
Incompatible products: Hazardous reactions may occur on contact with certain chemicals.
..... Refer to the list of incompatible materials section 10: "Incompatible materials"

Product at Use-Dilution Keep out of reach of children.
..... Keep container tightly closed.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

Introductory remarks: These recommendations provide general guidance for handling this product.
..... Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application.
..... While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs.
..... Waste resulting from these procedures should be handled in accordance with Section 13: Disposal considerations.
..... Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

Control parameters Components with workplace control parameters

Components	Value	Control	Basis
Not reportable			

Exposure controls

Control measures

Engineering measures: Good general ventilation should be sufficient to control airborne levels.
..... Respiratory protection is not required if good ventilation is maintained.

Personal protective equipment

Respiratory protection: In operations where mists are generated, wear a NIOSH/MSHA approved respirator that has been selected by a technically qualified person for the specific work conditions.

Hand protection: Wear long chemical resistant gloves. Observe instructions regarding permeability and breakthrough time provided by the supplier of the gloves.
..... Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion and contact time.
..... Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye protection: Wear chemical splash goggles.

Skin and body protection: Wear footwear protecting against chemicals, and impervious clothing.
..... Choose body protection according to the amount and concentration of the substances in the workplace.

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Product at Use-Dilution

Hygiene measures:..... Personal hygiene is an important work practice exposure control measure and the following
..... General measures should be taken when working with or handling this material:

1. Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored
2. Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet
3. Wash exposed skin promptly to remove accidental splashes or contact with product

Appearance:.....	Clear solution
Odor:.....	Characteristic odor
Odor Threshold:.....	No information available
pH:.....	5.0-7.0 (1% solution)
Freezing point:.....	No information available
Melting point/range:.....	No information available
Boiling point/boiling range:	98°C
Flash point:.....	Does not flash
Evaporation rate:	No information available
Flammability (solid, gas):.....	Not applicable
Flammability/Explosive limit:.....	No information available
Auto-ignition temperature:	No information available
Vapor pressure:.....	No information available
Vapor density:.....	No information available
Density:	0.9994 g/ml, 8.34 lbs./gal (25°C)
Solubility:.....	Water solubility: miscible
Solubility in other solvents:	No information available
Partition coefficient: n-octanol/water:.....	No information available
Thermal decomposition:	No information available
Viscosity:	< 10 cSt (25C)
Explosive properties:.....	No information available
Oxidizing properties:.....	No information available

Product at Use-Dilution

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SECTION 10: STABILITY AND REACTIVITY

Reactivity No information available
Chemical stability Stable and non-reactive under normal conditions of use, storage and transport
Possibility of hazardous reactions No information available
Conditions to avoid No information available
Incompatible materials Anionic surfactants
Hazardous decomposition products Oxides of carbon and nitrogen

SECTION 11: TOXICOLOGICAL INFORMATION

Route of Exposure:
Eye contact Corrosive. Causes serious eye damage.
..... Symptoms may include pain, burning sensation, redness, watering, blurred vision or loss of vision.
Skin contact Corrosive. Causes severe burns.
..... Symptoms may include burns, blisters, redness and pain (which may be delayed).
Ingestion Harmful if swallowed. Causes burns/serious damage to mouth, throat and stomach.
..... Symptoms may include vomiting, nausea, and/or feeling of general unwellness.
Inhalation May cause irritation and corrosive effects to nose, throat and respiratory tract.
..... Symptoms may include coughing and difficulty breathing.
Sensitization No known effects

Product at Use-Dilution

Product Summary: Causes eye irritation

No data available for the teratogenicity, mutagenicity, or reproductive toxicity of this product.
No data available to designate the product as causing specific target organ toxicity through repeated exposure.
No data available to designate product as an aspiration hazard.

Route of Exposure:
Eye contact Causes eye irritation. Symptoms may include irritation, watering, redness.
Skin contact No known significant effects or critical hazards
Ingestion No known significant effects or critical hazards
Inhalation No known significant effects or critical hazards
Sensitization No known effects

Information on toxicological effects

Acute toxicity

Acute oral:	LD ₅₀ 809 mg/kg
Acute dermal:	LD ₅₀ >2000 mg/kg
Acute inhalation:	No information available
Acute toxicity (other):	No information available

Skin corrosion/irritation Corrosive. Causes severe burns
Serious eye damage/eye irritation Corrosive. Causes serious eye damage.
Respiratory or skin sensitization Not classified as sensitizing by skin contact

Product at Use-dilution

Acute toxicity

Acute oral:	LD ₅₀ >5000 mg/kg
Acute dermal:	LD ₅₀ >2000 mg/kg
Acute inhalation:	No information available
Acute toxicity (other):	No information available

Skin corrosion/irritation Corrosive. Causes severe burns

Serious eye damage/eye irritation Corrosive. Causes serious eye damage.

Respiratory or skin sensitization Not classified as sensitizing by skin contact

Genotoxicity in vitro: No information available
Genotoxicity in vivo: No information available

Carcinogenicity: This product does not contain any ingredient designated as probable or suspected human carcinogens by IARC, ACGIH.

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Toxicity to reproduction/fertility: No information available
Developmental toxicity/teratogenicity: No information available

STOT-single exposure:..... No information available
STOT-repeated exposure:..... No information available

Aspiration toxicity:..... No information available

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity:..... Toxic to aquatic life

Persistence and degradability

Biodegradation: No information available

Bio-accumulative potential

Partition coefficient: n-octanol/water: No bioaccumulation is to be expected (log Pow<=4)

Bioconcentration factor (BCF): No information available

Mobility in soil

Known distribution to environmental
compartments:..... No information available

Results of PBT and vPvB assessment No information available

Other adverse effects

Environmental assessment:..... No other adverse environmental effects (e.g. ozone depletion, photochemical
..... ozone creation potential, endocrine disruption, global warming potential) are expected from
..... this product.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

PESTICIDE DISPOSAL:..... Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide,
..... spray mixture or rinsate is a violation of Federal law.
..... If these wastes cannot be disposed of by use according to label instructions, contact your State
..... Pesticide or Environmental control agency, or the Hazardous Waste Representative at the
..... nearest EPA Regional Office for guidance.
Product disposal: Observe all applicable federal, state, and local regulations
Packaging:..... Remove all residue when emptying.

Product at Use-Dilution

Waste treatment methods

PESTICIDE DISPOSAL:..... Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide,
..... spray mixture or rinsate is a violation of Federal law.
..... If these wastes cannot be disposed of by use according to label instructions, contact your State
..... Pesticide or Environmental control agency, or the Hazardous Waste Representative at the
..... nearest EPA Regional Office for guidance.
Product disposal: Diluted product can be flushed to sanitary sewer.
Packaging:..... Discard empty container in trash or offer for recycling.

SECTION 14: TRANSPORT INFORMATION

DOT Classification..... UN number: 1903
UN proper shipping name:..... DISINFECTANTS, LIQUID, CORROSIVE, N.O.S. (QUATERNARY AMMONIUM COMPOUND)
Transport hazard class(es): 8
Packing group (if applicable): II

Product at Use-Dilution

DOT Classification..... N/A

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SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Notification status: N/A
OSHA Hazard Communication Standard
(26 CFR 1910.1200): Hazardous

CERCLA (RQ)

Ingredient(s)	CAS#	Weight	CERCLA RQ	Section 302 TPQ
Not listed				

SARA/EPCRA Extremely Hazardous Substances (302/304)

Fire	Reactive	Acute health hazard	Chronic health hazard
No	No	Yes	No

SARA Toxic Substances (313) The following components are subject to SARA Section 313 reporting requirements

Ingredient(s)	CAS#	Weight
Not listed		

CAA (311) Volatile Organic compounds

Ingredient(s)	CAS#	Weight
Not listed		

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

NFPA-Classification		HMIS-Classification	
Health	3 high	Health	3 high
Flammability	0 insignificant	Flammability	0 insignificant
Instability or Reactivity	0 insignificant	Reactivity	0 insignificant
		HMIS PPE	B
		B=Safety glasses, Gloves	

Product at Use-Dilution

NFPA-Classification		HMIS-Classification	
Health	1 slight	Health	1 slight
Flammability	0 insignificant	Flammability	0 insignificant
Instability or Reactivity	0 insignificant	Reactivity	0 insignificant
		HMIS PPE	

Key or legend to abbreviations and acronyms used in the safety data sheet

ACGIH: American Conference of Governmental Industrial Hygienists	NIOSH: National Institute for Occupational Safety and Health
HMIS: Hazardous Materials Identification System	NTP: National Toxicology Program
IARC: International Agency for Research on Cancer	OSHA: Occupational Safety and Health Administration
NFPA: National Fire Protection Association	

Disclaimer:

This document was created for reference purposes only. Based on the US EPA approved basic formulation. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of this 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.

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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.

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