

Korex Canada
78 Titan Road
Etobicoke, Ontario
M8Z 2J8 Canada
416-231-7800

PRODUCT: Korex Toilet Bowl Cleaner

SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Supplier Identifier..... Korex Corporation
50000 W. Pontiac Trail
P.O. Box 930339
Wixom, MI
US
48393-0339
1-248-624-0000 x 286

Product Identifier..... Korex Toilet Bowl Cleaner

Recommended Use..... Toilet Cleaning

Chemical Family..... Mixture.

Emergency telephone number..... In the United States: CHEMTREC (800) 424-9300. In Canada: Korex Technical Services Group; 416-231-7800 x 315

SECTION 02: HAZARDS IDENTIFICATION



Signal Word..... WARNING

Hazard Classification..... SKIN IRRITATION 2; EYE IRRITATION 2A

Hazard Statements..... Causes serious eye irritation and skin irritation.

Prevention..... Wash thoroughly after handling.
Wear protective gloves and eye protection.

Response..... IF ON SKIN (or hair) immediately take off all contaminated clothing, rinse skin with water or use emergency shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INHALED: Remove to fresh air and Keep comfortable for breathing. Specific treatment see section 4 on this SDS. Wash contaminated clothes before reuse.

Storage..... Not prescribed.

Disposal..... Dispose of contents and empty containers in accordance with local, State and Federal Regulations.

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. This mixture, when tested as a whole, is considered an eye and skin irritant within the meaning of the OSHA Hazard Communication Standard. .

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910:1200	CAS #	WT. %
Sodium Hypochlorite	7681-52-9	1-3
Sodium Hydroxide	1310-73-2	Less than 1.0
Dodecyldimethylamine oxide	1643-20-5	0.5-1.5

SECTION 04: FIRST AID MEASURES

Routes of exposure

Inhalation..... If inhaled remove to fresh air. If not breathing give artificial respiration and obtain immediate medical assistance.

Skin Contact..... Wash with soap and water. Get medical attention if irritation develops. Launder contaminated clothing before reuse. .

SECTION 04: FIRST AID MEASURES

Eye Contact..... Immediately flush eyes with water for 15 minutes, keeping eyelids open during flushing. . If irritation persists, repeat flushing and obtain medical attention immediately.

Ingestion..... Do not induce vomiting. Rinse mouth with water, then drink one or two glasses of milk or water. Seek medical attention. Never give anything by mouth to an unconscious person. .

Symptoms and effects..... Treat victims symptomatically. See sections 2 and 11.

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..... Extinguish using agent suitable for surrounding fire. Water spray, Carbon dioxide (CO₂), Foam, Dry chemical.

Hazardous Combustion Products..... Oxides of carbon.

Unusual Fire/Explosion Hazards..... None expected.

Special Fire Fighting Procedures..... Self-contained breathing apparatus recommended.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Personal Precautions..... For small quantities wear gloves, wipe up with damp cloth, rinse cloth thoroughly and allow cloth to dry before laundering.

Emergency Procedures..... Wear adequate personal protection to prevent skin and eye contact. Avoid breathing vapours. Dike to prevent spreading.

Methods and Materials used for Containment..... Use an inert substance to contain and absorb spilled material. Shovel to properly identified salvage drum. Seal salvage drum for disposal. For large spills provide diking to prevent spreading.

Clean Up..... Flush area with water and dry to avoid slippery conditions. Dike spills to prevent spreading.

SECTION 07: HANDLING AND STORAGE

Handling Precautions..... Avoid direct contact. Do not eat or drink while working with this product, wash thoroughly after handling.

Storage Requirements..... Keep out of reach of children. Keep containers tightly closed.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	ACGIH TLV		OSHA PEL		REL	NIOSH
	TWA	STEL	PEL	STEL		
Sodium Hypochlorite	Not established	Not established	Not established	Not established		Not established
Sodium Hydroxide	2 mg/m ³	Not established	2 mg/m ³	Not established		2 mg/m ³
Dodecyltrimethylamine oxide	Not established		Not established			Not established

Engineering Controls..... Normal ventilation is adequate

Protective Equipment

Clothing/Type..... Wear adequate protective clothing to prevent skin contact.

Eye/Type..... Safety goggles.

Footwear/Type..... Wear safety boots per local regulations.

Gloves/Type..... Wear impervious gloves.

Respiratory/Type..... Not required for intended use. Wear a dust mask in confined spaces or when dust is present.

Other/Type..... Anyone handling this product should wash their hands and face before eating, drinking or using tobacco products. Conditions of use, adequacy of engineering or other control measures, and actual exposures will dictate the need for specific protective devices at your workplace. Emergency eye wash station and shower should be available.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance..... Liquid - viscous. Opaque.

Odour..... Not available.

Odour Threshold (ppm)..... Not available.

pH..... 12.5 (undiluted).

Melting/Freezing Point..... Not available.

Initial Boiling Point/Boiling Range..... > 100C / 212F.

Flash Point (deg C), Method..... Not applicable.

Evaporation Rate..... Not available.

Flammability (solid/gas)..... Not applicable.

Upper Flammable Limit (% Vol)..... None.

Lower Flammable Limit (% Vol)..... None.

Vapor Pressure (mm Hg)..... Not available.
 Vapour Density (Air=1)..... Not available.
 Relative Density/Specific Gravity..... 1.00 - 1.12
 Solubility..... Complete in water.
 Coefficient of Water/Oil Distribution..... Not available.
 Auto Ignition Temperature (deg C)..... Not available.
 Decomposition temperature..... Not available.
 Viscosity..... 500-700 cps. (Brookfield LVT spindle 2, 20 rpm, 25 C).

SECTION 10: STABILITY AND REACTIVITY

Reactivity..... None known.
 Chemical stability..... Stable at normal temperatures and pressures.
 Hazardous Polymerization..... Will not occur.
 Conditions to avoid..... Not applicable.
 Incompatible materials..... Acids.
 Hazardous Products of Decomposition..... Carbon oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Sodium Hypochlorite	No data	8.9 g/kg (oral, rat); 10 g/kg (dermal, rabbit)
Sodium Hydroxide	No data available	104-340 mg/kg (oral, rat); 1350 mg/kg (dermal rabbit)
Dodecyltrimethylamine oxide	Not available	1.065 g/kg (oral, rat)
Route of Exposure.....	Skin contact, eye contact, inhalation.	
Symptoms.....	Causes skin and eye irritation.	
Effects of Acute Exposure.....	Causes serious eye irritation. Prolonged or repeated contact skin contact may cause slight irritation. Contact may cause nose, throat and respiratory tract irritation. Contact may cause irritation to the mouth, esophagus and stomach. My cause gastric tract upset.	
Effects of Chronic Exposure.....	No long term effects have been reported.	
Carcinogenicity of Material.....	None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA OR ACGIH as a carcinogen.	
Reproductive Effects.....	None of the ingredients in this product meet the classification criteria for Reproductive Toxicity or Mutagenicity. (Ames Assay).	

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity..... Under normal and foreseeable uses, there are no concerns for aquatic organisms exposed to product ingredients at the anticipated environmental concentrations. .
 Persistence and degradability..... During sewage treatment there is microbial degradation to carbon. The dodecyltrimethylamine is readily biodegradable (OECD Guideline 301 B).
 Bioaccumulation Potential..... No data available.
 Mobility in soil..... No data available.
 Other Adverse Effects..... No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

Hazardous Waste Number..... D002: Corrosive
 Appropriate Disposal Methods..... This product is a RCRA characteristic hazard waste (corrosive) and must be disposed of in a RCRA Subtitle C landfill.

SECTION 14: TRANSPORT INFORMATION

DOT Classification..... Not regulated

SECTION 15: REGULATORY INFORMATION

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

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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