MK BOWL KLEEN

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	: MK BOWL KLEEN
Chemical Formula	: Compounded product
Chemical Family	: N/A
Uses	: Toilet and urinal bowl cleaner
Supplier	: Marckem Sdn Bhd
Address	: No.43, Jalan 3/62B, Bandar Menjalara Kepong, 52200 Kuala Lumpur
Contact	: 03-62773568
Email	: kl_inquiry@marckem.com

SECTION 2. HAZARDS IDENTIFICATION

Hazard Pictograms	:
Signal Word	: Warning; Danger
Hazard Classifications	: Skin corrosion – Category 1B
	: Serious eye damage – Category 1
	: Acute toxicity (Oral) – Category 4
Hazard Statements	: H302: Harmful if swallowed.
	: H314: Causes skin corrosion.
	: H318: Causes serious eye damage.
Precautionary Statements	: **Prevention**
	: P102: Keep out of reach of children.
	: P233: Keep container tightly closed.
	: P264: Wash hands thoroughly after handling.
	: P280: Wear protective gloves/protective clothing/eye protection/face protection
	: **Response**
	: P301+P330+P331: IF SWALLOWED: rinse mouth, Do not induce vomiting.
	: P302+P352: IF ON SKIN: wash with soap and water.
	: P305+P351+P338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

| SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS |

Chemical Name	Hydrochloric Acid	Alkyl Dimethyl Benzyl Ammonium Chloride
CAS No.	7647-01-0	68391-01-5
Proportion	>10.0%	~0.6%
Exposure Limit	PEL:5ppm	PEL:400ppm
Toxicological	NDA	LD50/oral/rat: 570ml/kg

| SECTION 4. FIRST AID MEASURES |

Eye Contact : Wash the eyes with large amount of water. If any irritation or discomfort persists, seek medical attention.

Skin Contact : Wash the affected area with large amount of water. If any irritation or discomfort persists, seek medical attention.

Inhalation : Remove the affected person to fresh air. If any irritation or discomfort persists, seek medical attention.

Ingestion : Do not induce vomiting. The affected person may be given water to drink. Seek immediate medical attention.

| SECTION 5. FIRE FIGHTING MEASURES |

Product : Not considered as flammable

Flash Point : Not determined (Aqueous System)

Autoignition Temperature : NA

Flammable Limit (%) : Not determined (Aqueous System)

Explosion Properties : NA

Extinguishing Media : Dry chemical, water fog or alcohol foam

Fire Fighting Instruction : Wear full protective cloth & self-contained breathing apparatus.

Explosion Hazard in Presence of Various Chemical : During fire, HLC and HF may decompose by reacting with certain metals to produce very flammable and explosive H^2 gas.

MK BOWL KLEEN

SECTION 6. ACCIDENTAL RELEASE MEASURE

Small Leak or Spill : Flush away to drain using large amount of water.

Large Spill : Collect spills for disposal. Wear protective equipment.

SECTION 7. HANDLING AND STORAGE

Handling : Avoid direct contact with eyes. Always follow industrial safety practices.

Storage : Store in cool, dry place. Keep container closed and away from acidic products.

SECTION 8. EXPOSURE CONTROL AND PERSONAL PROTECTION

a) Exposure Limit:

Chemical Name	Hydrochloric Acid	Alkyl Dimethyl Benzyl Ammonium Chloride
CAS No.	7647-01-0	68391-01-5
Standard	PEL:5ppm	PEL:400ppm
Reference	OSHA	OSHA

b) Personal Protection
Eye/Skin Protection : Protective clothing, gloves and goggles should be worn if prolonged contact or use is anticipated.

Respiratory Protection : None required in normal use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Dark green liquid

Odour : Unscented

Solubility : Complete

Boiling Point : ~100c

Melting Point : NA

Vapour Pressure (mm of Hg at 255c) : NA

Percent Volatiles : >80%

Evaporation Rate : NA

Specific Gravity (26c) : ~1.06

Other Properties if Applicable   : pH (1%W/W): 1.5-2.5

SECTION 10. STABILITY AND REACTIVITY

Conditions to Avoid   : Do not mix with other chemicals.

Incompatible   : Alkaline.

Decomposition Products   : Hydrogen chloride.

Hazardous Polymerization   : Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicity Data   : No data currently available

Carcinogenicity   : No data currently available

Reproductive Effect   : No data currently available

Effects of Over Exposure   :

<u>Route of Entry</u>	<u>Effects</u>

Eyes Contact   : Can cause severe damage to cornea.

Skin Contact   : May cause burns.

Inhalation   : Can cause irritation of nose, throat, and respiratory tract In high vapour condition.

Ingestion   : Can cause stomach discomfort, nausea, and vomiting.

Chronic Effects   : No data currently available

Target Organs   : No data currently available

Medical Conditions General Aggravated by Exposure   : No data currently available

SECTION 12. ECOLOGICAL INFORMATION

Mobility   : Miscible with water.

Bioaccumulation   : No date currently available.

Biodegradability   : Easily biodegraded.

Aquatic Toxicity   : Harmful to aquatic organisms in high concentration.

SECTION 13. DISPOSAL CONSIDERATION

Dispose in accordance with all applicable national environment laws and regulations.

SECTION 14. TRANSPORT INFORMATION

UN No.   : NA

Classification   : NA

Packing Group   : NA

NA = Not Applicable   NDA = No Data Available

SECTION 15. REGULATORY INFORMATION

Kindly refer to local regulatory which applicable.

SECTION 16. OTHER INFORMATION

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of Marckem Sdn Bhd knowledge, information, and belief accurate as the data indicated.

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.