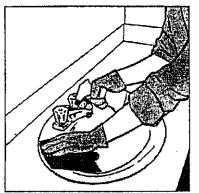
Royal Flush Bowl Cleaner

A ready-to-use hydrochloric acid-based bowl cleaner, disinfectant and deodorizer. Its cationic detergent system inhibits the acid corrosion of metal parts in toilet bowls and urinals. Effective against Salmonella choleraesul, Staphylococcus aureus and Pseudomonas

aeruginosa in addition to preventing odor caused by microorganisms.



Where To Use

Homes Industry
Urinals Toilet Bowls

Dilution

As is

Directions

Disinfection - for gross filth and heavy soil, a pre-cleaning step is required for disinfecting. 1) To disinfect toilet bowls, flush toilet and add 4 ounces of this product directly to the bowl water. Swab bowl completely using a scrub brush or toilet mop, making sure to get under the rim. Let stand for 10 minutes and flush. 2) To disinfect urinals, add 2 ounces of this product to 48 ounces (1 1/2 quarts) of water. Flush urinal and apply solution with brush or toilet mop to urinal surface, making sure to scrub completely. Let stand for 10 minutes and flush. 3) for badly stained toilet bowls, flush toilet and use toilet mop to push water from the bowl over the trap. Press swab mop against bowl to remove excess water then saturate mop with 2 ounces of this product while holding bottle and applicator over bowl. Swab bowl completely making sure to get under the rim. Let stand for 10 minutes then flush. Rinse applicator completely.

Technical Specifications

COLOR:	Transparent Blue	STORAGE(Unopened): 1 Year @R.T.
FORM:	Liquid	BIODEGRADABLE: Yes
SCENT:	Wintergreen	WEIGHT PER/GAL: 8.7 lbs.
рН:	< 1.0	SHIPPING CLASS: 8, Packing Gr II
FLASH POIN	T: N/A	PACKAGING: 12x32 oz.
VISCOSITY: .	High	
TYPE:		



MATERIAL SAFETY DATA SHEET Product: FLUSH AWAY MSDS No: F1175XXX Rev Not I Date: 07/01/92

SIMONIZ USA, INC. 201 BOSTON TURNPIKE BOLTON, CT 06043

860-646-0172

OR. MANUFACTURER'S STATEMENT

ATTENTION: THIS PRODUCT IS CLASSIFIED AS HAZARDOUS BY THE D.O.T. IN CASE OF SPILLS, ACCIDENTS OR EMERGENCY SITUATIONS INVOLVING THIS PRODUCT, CALL CHEM-TEL AT 1-800-255-3924 ANYTIME DAY OR NIGHT. The information contained in this MSDS is based on the data available to us from sources we believe to be reliable. No warranty or guaranty expressed or implied is made regarding the accuracy of this data or the results obtained from the reliance on this data. The manufacturer assumes no responsibility for injury from the use of this product. Be safe - read this product safety information and pass it on to all persons that may be exposed to this product. Federal law

41. SECTION I - PRODUCT IDENTIFICATION ACIDIC LIQUID SANITIZER PRODUCT TYPE:

HYDROCHLORIC ACID SOLUTION DOT SHIP NAME: 8, PACKING GROUP II DAT HAZ CLASS:

UN 1789

FLAMMABILTY: HEALTH: REACTIVITY: SPECIAL HAZARD: O: WILL NOT BURN 3: EXTREME DANGER

O: STABLE A: ACID

42. SECTION II - INGREDIENTS IDENTITY INFORMATION

PERCENT CAS NUMBER OSHA PEL /ACGIH TLY INGREDIENT 7.86 7647-01-0 5 ppm PEL HYDROCHLORIC ACID 7732-18-5 .00 NO LIMIT ESTABLISHED WATER .00 9016-45-9 NO LIMIT ESTABLISHED NONYLPHENOXYPOLYETHYLENEOXYETHANOL .00 DIDECYL DIMETHYL AMMONIUM CHLORIDE NO LIMIT ESTABLISHED 7131-51-5

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: 212 Degrees F.

SPECIFIC GRAVITY: 1.04

VAPOR PRESSURE: N/A

DOT ID NUMBER:

MELTING POINT: N/A

VAPOR DENSITY: N/A

EVAPORATION RATE: Slower than other

SOLUBILITY IN WATER: Completely soluble

APPEARANCE & ODOR: Transparent blue liquid, winnergreen scented, pH AS IS: <1.0

04. SECTION IV - FIRE & EXPLOSION DATA

FLASH POINT(METHOD USED): N/A LEL: N/A UEL: N/A

EXTINGUISHING MEDIA: This product is NON-FLAMMABLE

SPECIAL FIRE FIGHTING PROCEDURES: Cool containers with water to avoid overheating contents. Wear SCBA and full protective clothing. UNUSUAL FIRE & EXPLOSION HAZARDS: Water applied directly to acid will cause heating and spanering. May cause fire in contact with organic materials. May release hydrogen gas.

05. SECTION V - REACTIVITY DATA

STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID: Do not mix with alkaline materials. Avoid high temperatures.

INCOMPATIBILITY (MATERIALS TO AVOID): Reactive metals, chlorine bleach, oxidizing agents

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Hydrogen gas, hydrogen chlorids gas

HAZARDOUS POLYMERIZATION: Will not occur-not known to polymerize

SECTION VI - HEALTH HAZARD DATA

ROUTE(S) OF ENTRY: INHALATION? Yes SKIN? Yes INGESTION? Yes

HEALTH HAZARDS (ACUTE & CHRONIC): Overexposure may cause burns to eyes, skin and mucous membranes.

CARCINOGENICITY: NTP? No IARC MONOGRAPHS? No OSHA REGULATED? No

SIGNS & SYMPTOMS OF EXPOSURE: Irrination and/or burning of syes, skin and throst.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known.

EMERGENCY & FIRST AID PROCEDURES:

Treat for acid burn-flush from skin and clothing with large amounts of fresh water. Get immediate medical attention. Wash contaminated clothing SKIN-

before wearing again.

Treat for acid barn-flush immediately from eyes for 15 min. with water. Commit physician immediately, EYES:

If swallowed, do NOT induce vomiting. Give large quantities of water. Never give anything by mouth to an unconscious person. Follow with milk of INCESTION:

magnesia. Keep warm and quiet. Get immediate medical attention.

Remove person away from exposure into fresh air. Call physician immediately. INHALATION:

97. SECTION VII - PRECAUTIONS FOR SAFE HANDLING & USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Dike to prevent spilled transmit from entering streams or sewer

systems. Consult state, local and federal authorities.

WASTE DISPOSAL METHOD: As recommended by state, local and federal authorities.

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING: To avoid spatieting, always add this product into water, never add water to this product. Store at ambient temperatures. OTHER PRECAUTIONS: DO NOT TRANSFER TO UNMARKED CONTAINERS. KEEP AWAY FROM CHILDREN

66. SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION (SPECIFY TYPE): If necessary, approved respirator for sold minus.

VENTILATION: Exhaust as necessary to keep below exposure finits.

PROTECTIVE GLOVES: Rubber gloves.

EYE PROTECTION: Safety goggles, face shield

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Bubber clothing to protect from spinshes.

WORK/HYGIENIC PRACTICES: Avoid unnecessary exposure to chemicals.

ATERIAL SAFETY DATA SHEET

For chemical emergency information regarding this product, call Chem-Tel at 1-800-255-Amsterdam, NY 12010 (518) 842-2410 Edson Street, P.O. Box 7 3924 anytime. & Markes Inc. PRODUCT NUMBER:..... DATE PRINTED:.....11/30/99 REVISION DATE: 11/30/99 F1175XXX SMZ 02012

SECTION I - IDENTIFICATION

PRODUCT NAME: Royal Flush Bowl Cleaner PRODUCT TYPE:...Acidic Liquid Cleaning Compound

HAZARDOUS INGREDIENT SECTION II - HAZARDOUS INGREDIENTS CAS NUMBER

PERCENT

Quaternary Ammonium Chloride Nonylphenoxypolyethyleneoxyethanol Hydrochloric Acid 9016-45-9 7647-01-0 7732-18-5 No limits established No limits established No limits established 5 ppm PEL, STEL Listed ğ

SECTION III - PHYSICAL DATA

BOILING POINT: 210 degrees F. APPEARANCE: Blue transparent liquid, pleasantly scented.

PH: Less than 1.0 VAPOR DENSITY: N/A

VAPOR PRESSURE: N/A

SOLUBILITY IN WATER: Completely soluble. SPECIFIC GRAVITY: 1.05

SECTION IV - FIRE AND EXPLOSION DATA

SPECIAL FIRE FIGHTING PROCEDURES:.. where this product is present should be equipped with an approved, fully enclosed SCBA with a EXTINGUISHING MEDIA:......This product is non-flammable. Use extinguishing media suitable for materials already burning. FLASHPOINT:...This product is non-flammable. Firefighters working in areas

plastic hood window.
UNUSUAL FIRE AND EXPLOSION HAZARDS:.... None known.

SECTION V - REACTIVITY DATA

INCOMPATIBILITY:..... HAZARDOUS POLYMERIZATION:...... This product not known to polymerize STABILITY:.. Ferrous metals, aluminum, zinc, magnesium and anyStable under normal conditions.

other acid sensitive materials. HAZARDOUS BYPRODUCTS:.....Reaction with metals may liberate hydrogen chloride or

SECTION VI - HEALTH DATA

INHALATION:.. MEDICAL CONDITION AGGRAVATED: .. ROUTE(S) OF ENTRY:..... LISTED CARCINOGEN:.... Inhalation, skin absorption, or ingestion. Not listed by IARC, NTP or OSHA. ... Inhalation of significant amounts of this product can None known.

throat, esophagus and stomach. cause damage to lungs resulting in edema 70EST107:..... This material can cause burns and serious damage to

...... Can cause serious burns and/or blindness.

.... This product may cause burns or irritation if not

removed from the skin. SKIN (DERMAL):....

SECTION VII FIRST AID

edical

BREATHING (INHALATION): ... If this product is inhaled, get immedia

SWALLOWING (INGESTION):.... to give liquids to an unconscious person. Get immediate medical attention! of water, followed by either milk or a minimum of 2 teaspoons of milk of magnesia. Do not attempt DO NOT INDUCE VOMITING! Drink a large quantity Flush eyes with a large quantity of fresh water for at least

ATTENTION by an eye specialist. It may be necessary to take victim to a hospital emergency room amounts of fresh water. Get immediate medical attention. Rewash contaminated clothing before SKIN (DERMAL):..... wearing. 15 minutes. Apply ice compresses and GET IMMEDIATE EMERGENCY MEDICAL Immediately flush from skin and clothing with large

SECTION VIII EMPLOYEE PROTECTION

shield. Protective outerwear and boots. ADDITIONAL MEASURES:.....

Keep away from children! Spilled material is slippery.

SECTION IX - SPILL AND DISPOSAL DATA

WASTE DISPOSAL:. Consult local, state and federal authorities. Dike to prevent spillage into streams or sewer systems. As recommended by local, state and federal authorities.

CONTAINERS. KEEP AWAY FROM CHILDREN Store at ambient temperatures. Keep from freezing. DO NOT TRANSFER TO UNMARKED HANDLING & STORAGE PRECAUTIONSDo not store in metal containers.

PROPER SHIPPING NAME: Hydrochloric Acid Solution SECTION X -OTHER REGULATORY INFORMATION

'HAZARD CLASS AND LABEL: 8 Corrosive ID NUMBER: UN 1789 CONSTITUENT: N/A

PACKING GROUP: II NFPA REACTIVITY: 0 NFPA FLAMMABILITY: 0 NFPA HEALTH: 3 NFPA OTHER: Acid

SECTION XI - PRECAUTIONARY STATEMENTS

product. Federal law requires it. read this product safety information and pass it on to all persons who may be exposed to this data. The manufacturer assumes no responsibility for injury from the use of this product. Be safedata available to us from sources we believe to be reliable. No warranty or guaranty expressed or WARNING: implied is made regarding the accuracy of this data or the results obtained from the reliance on this The information contained in this MSDS is based on the