


## MATERIAL SAFETY DATA SHEET

### TOILET BOWL SANITIZER

No. 1 | Date Issued: 07/03/2011

COMPANY DETAILS			
NAME:	Hygiene Systems (Pty) Ltd	EMERGENCY TEL:	0860 494 4363
ADDRESS:	7 Hargan Road, Jet Park, Boksburg	TEL:	011 552 8403
SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION			
TRADE NAME:	Toilet Bowl Sanitizer		
CHEMICAL FAMILY:	Liquid acidic toilet cleaner		
CHEMICAL NAME:	Not applicable		
SYNONYMS:	Not applicable		
CHEMICAL ABSTRACT NO.:	Not applicable		
SECTION 2 – COMPOSITION INFORMATION ON INGREDIENTS			
DESCRIPTION:	%	EC NUMBER:	CLASSIFICATION:
HYDROCHLORIC ACID (CAS NO.: 7647-01-0):	15 – 25		H315/319/335
SECTION 3 – HAZARD IDENTIFICATION			
MAIN HAZARD:	Corrosive		
FLAMMABILITY:	Not flammable		
CHEMICAL HAZARD:	Corrosive		
BIOLOGICAL HAZARD:	Severe irritant		
REPRODUCTIVE HAZARD:	Not known		
HEALTH EFFECTS – EYE CONTACT:	Stinging sensation. Causes serious eye irritation.		
HEALTH EFFECTS – SKIN CONTACT:	Causes skin irritation.		

HEALTH EFFECTS – INGESTION:	Severe irritation and/or burns to the gastrointestinal tract.
HEALTH EFFECTS – INHALATION:	Excessive exposure may cause irritation to the upper respiratory tract.
<b>SECTION 4 – FIRST AID MEASURES</b>	
PRODUCT IN EYE:	Immediately flush with water for at least 15 minutes or until irritation stops. Seek medical advice.
PRODUCT ON SKIN:	Immediately flush skin with plenty of water and remove any contaminated clothing. Seek medical advice
PRODUCT INGESTED:	<b>Do not</b> induce vomiting. Give copious amounts of water to drink. Seek medical attention.
PRODUCT INHALED:	Remove to fresh air. Consult physician, should breathing still be difficult.
<b>SECTION 5 – FIRE RESPONSE MEASURES</b>	
EXTINGUISHING MEDIA:	Not applicable
SPECIAL HAZARDS:	May form harmful gases on heating.
PROTECTIVE CLOTHING:	Self-contained breathing apparatus, P.P.E.
<b>SECTION 6 – ACCIDENTAL RELEASE MEASURES</b>	
PERSONAL PRECAUTIONS:	Splash goggles, overalls, boots and gloves 
ENVIRONMENTAL PRECAUTIONS:	Do not allow to enter waterways
SMALL SPILLS:	Flush to approved drain with plenty of water.
LARGE SPILLS:	Absorbed onto inert material. May be buried in an approved landfill site.
<b>SECTION 7 – HANDLING AND STORAGE</b>	
SUITABLE MATERIAL:	Polyethylene containers (original container)
HANDLING / STORAGE PRECAUTIONS:	Do not breathe vapour/spray. Avoid contact with skin and eyes. Store in a cool, dry place away from metals and reducing agents.
<b>SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION</b>	
OCCUPATIONAL EXPOSURE LIMITS:	No exposure limits established

<b>ENGINEERING CONTROL MEASURES:</b>	Keep the vapour concentrations below their occupational exposure limits, by providing adequate ventilation. Exhaust ventilation or other engineering controls may be necessary, if ventilation is inadequate.
<b>PERSONAL PROTECTION:</b> <i>(respiratory)</i>	If ventilation is inadequate, wear an appropriate respirator
<b>PERSONAL PROTECTION:</b> <i>(hand)</i>	Rubber gloves
<b>PERSONAL PROTECTION:</b> <i>(eye)</i>	Goggles/Face shield
<b>PERSONAL PROTECTION:</b> <i>(skin)</i>	Overalls, apron & boots
<b>OTHER PROTECTION:</b>	Ventilation (local exhaust)
<b>HYGIENE MEASURES:</b>	Wash hands, forearms and face thoroughly after handling product and before eating, smoking and before going home.
<b>SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES</b>	
<b>APPEARANCE:</b>	Clear, colourless to slightly yellow liquid
<b>ODOUR:</b>	Pungent and irritating odour
<b>pH (as is):</b>	< 1.0
<b>BOILING POINT:</b>	≈ 108°C
<b>FREEZING POINT:</b>	- 59°C
<b>FLASH POINT:</b>	Not applicable
<b>FLAMMABILITY:</b>	Not flammable
<b>EXPOSURE PROPERTIES:</b>	May form explosive gases on reaction with metals
<b>OXIDIZING PROPERTIES:</b>	None
<b>VAPOUR PRESSURE:</b>	Not determined
<b>DENSITY @ 20°C:</b>	1.05 +/- 0.01g/cm <sup>3</sup>
<b>SOLUBILITY – WATER:</b>	Soluble
<b>SOLUBILITY – SOLVENT:</b>	Soluble in polar solvents
<b>SOLUBILITY – COEFFICIENT:</b>	This product is more soluble in water
<b>SECTION 10 – STABILITY AND REACTIVITY</b>	
<b>STABILITY:</b>	This product is stable
<b>INCOMPATIBLE MATERIALS:</b>	Strong bases, metals and reducing agents

**SECTION 11 – TOXICOLOGICAL INFORMATION**

**LOCAL EFFECTS:**

<b>SKIN IRRITATION:</b>	Harmful in case of skin contact (irritant)
<b>EYE IRRITATION:</b>	Harmful in case of eye contact (severe irritant)
<b>ACUTE TOXICITY:</b>	Not available
<b>CHRONIC TOXICITY:</b>	Severe eye and skin irritation and/or burns on prolonged contact

**SPECIFIC EFFECTS:**

<b>CARCINOGENIC EFFECTS:</b>	None, as classified by OSHA and NIOSH
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**SECTION 12 – ECOLOGICAL INFORMATION**

<b>ECO-TOXICITY IN WATER:</b>	Harmful to aquatic organisms
<b>BIODEGRADABILITY:</b>	Inorganic acid, which will be neutralized over time

**SECTION 13 – DISPOSAL CONSIDERATIONS**

<b>DISPOSAL CONSIDERATION:</b>	<b>Do not</b> re-use containers. Puncture all plastic containers.
<b>DISPOSAL METHODS:</b>	Waste must be disposed of in accordance with local government and environmental control regulations.
<b>WASTE CLASSIFICATION:</b>	No additional information
<b>EUROPEAN WASTE CATALOGUE (EWC):</b>	No known data
<b>HAZARDOUS WASTE:</b>	The classification of this product does not meet the criteria for a hazardous waste.


### SECTION 14 – TRANSPORT INFORMATION

#### INTERNATIONAL TRANSPORT REGULATIONS:

REGULATORY INFORMATION:	UN NUMBER:	PROPER SHIPPING NAME:	CLASS:	PACKING GROUP:	LABEL:	ADDITIONAL INFORMATION:
<b>ADR/RID CLASS:</b> <i>Land – Road / Railway</i>	Not regulated	-	-	II/III	8	-
<b>ADN CLASS:</b> <i>Inland – Waterways</i>	Not regulated	-	-	-	-	-
<b>IMDG CLASS:</b> <i>Sea</i>	Not regulated	-	-	-	-	-
<b>IATA-DGR CLASS:</b> <i>Air</i>	Not regulated	-	-	-	-	-

### SECTION 15 – REGULATORY INFORMATION

#### EU REGULATIONS:

<b>HAZARD SYMBOL(S):</b>	
<b>CLASSIFICATION:</b>	Warning
<b>HAZARD STATEMENTS:</b>	H315 – Causes skin irritation H319 – Causes serious eye irritation H335 – May cause respiratory irritation
<b>PRECAUTIONARY STATEMENTS:</b>	P261 – Avoid breathing vapours P280 – Wear protective clothing P304+P340 – If inhaled: Remove to fresh air and keep at rest in a position comfortable for breathing P312 – Call a doctor if you feel unwell P302+P352 – If on skin: Wash with plenty of soap and water P332+P313 – If skin irritation occurs: Get medical advice/attention P362 – Take off contaminated clothing and wash before reuse P305+P351+P338 – If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P337+P313 – If eye irritation persists: Get medical advice/attention
<b>PRODUCT USE:</b>	Consumer applications  Classification and labeling have been performed as close as possible according to EU directives 67/548/EEC, 1999/45/EC including any amendments and the intended use.

**SECTION 15 – REGULATORY INFORMATION**

OTHER SPECIAL CONSIDERATIONS:	No additional remarks.
DISCLAIMER:	<p>Hygiene Systems believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this material safety data sheet. However, because the conditions of handling and possible addition of other chemicals, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials and makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for user’s consideration and examination. It is the responsibility of the user to determine the final suitability of this information and data to comply with all applicable international, state, and local laws and regulations.</p>