

# PRODUCT SAFETY DATA SHEET



## 1. IDENTIFICATION OF THE PREPARATION AND THE COMPANY IDENTIFICATION.

### **Trade Name:**

HARPIC Limescale Remover - Original

### **Product Format:**

Liquid

### **Product Use:**

Lime scale remover liquid.  
Toilet bowl cleaner (liquid).

### **Supplier in UK:**

Reckitt Benckiser  
Wellcroft House  
Wellcroft Road  
Slough,  
Berkshire  
SL1 4AQ

### **Supplier in The Republic Of Ireland:**

Reckitt Benckiser Ireland Ltd  
7 Riverwalk  
Citywest Business Campus  
Dublin 24  
Ireland

**Contact Telephone:** 0845 769 7079

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<b>Date Issued:</b>	<b>RB Ref No:</b>	<b>Issue:</b>	<b>RB parent code:</b>	<b>Revisions:</b>
06 Jan 2011	4010020901	1	D0187393 v1 + 0128574 v1	Revised formula

## 2. HAZARDS IDENTIFICATION.

### **In accordance with local and national regulations:**

The preparation is classified as dangerous in accordance with Directive 1999/45/EC

**Symbol(s)** C - Corrosive

### **EMERGENCY OVERVIEW:**

Keep locked up and out of reach of children.  
Avoid contact with skin and eyes  
Wear suitable protective clothing, gloves and eye / face protection.  
Keep away from food, drink and animal feeding stuffs  
This material and its container must be disposed of in a safe way.  
DO NOT mix with bleach or other cleaning products.  
Do not allow to come in contact with any other surfaces other than the toilet bowl

### **Most important hazards**

**R -phrase(s):** Causes severe burns.  
Contains Hydrochloric Acid



### 3. COMPOSITION / INFORMATION ON INGREDIENTS.

**Chemical nature of the preparation** Ingredient Declaration:

Per 100 gm. of liquid: Contains 6.75 gm of Hydrochloric Acid.  
Contains less than (<) 5% Non-ionic Surfactants.  
Contains less than (<) 5% Cationic Surfactants.  
Disinfectant.  
Perfume.

Chemical Name	CAS#	ENCS/ ELINCS	REACH No.	Proportion (% w/w)	Classification
HYDROCHLORIC ACID	7647-01-0	231-595-7		5 % - 10 %	C,R34 Xi,R37
PEG-2 TALLOW AMINE	61791-44-4	263-177-5		< 2.5 %	C,R22, R34 N,R50

For the full text of the R phrases mentioned in this Section, see Section 16

### 4. FIRST-AID MEASURES.

<b>General Advice</b>	In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
<b>Skin Contact</b>	After contact with skin, wash immediately with plenty of water. Get medical attention immediately if symptoms occur.
<b>Eye Contact</b>	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
<b>Inhalation</b>	Move to fresh air in case of accidental inhalation of vapors or decomposition products. If symptoms develop or persist, seek medical advice..
<b>Ingestion</b>	If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. Call a physician or Poison Control Center immediately.
<b>Notes to Physician</b>	Corrosive Material. Contains Hydrochloric Acid.
<b>Protection of First-aiders</b>	Use personal protective equipment. Avoid contact with skin, eyes and clothing.

### 5. FIRE-FIGHTING MEASURES.

<b>Flash point:</b>	Greater than 93.3° C (>200° F).
<b>Suitable Extinguishing Media:</b>	As suitable for the surrounding fire.
<b>Extinguishing media which must not be used for safety reasons:</b>	No information available
<b>Specific Hazards Arising from the Chemical:</b>	The product causes burns of eyes, skin and mucous membranes Keep product and empty container away from heat and sources of ignition. Thermal decomposition can lead to release of irritating gases and vapors In the event of fire and/or explosion do not breathe fumes  See Section 2 for Hazard Identification.
<b>Special Protective Equipment for Fire Fighters:</b>	As in any fire, wear self-contained breathing apparatus, pressure-demand, MSHA / NIOSH (approved or equivalent) and full protective gear.
<b>Precautions for Fire Fighters:</b>	Standard procedure for chemical fires.

### 6. ACCIDENTAL RELEASE MEASURES.

<b>Personal Precautions:</b>	Evacuate personnel to safe areas Use personal protective equipment. Avoid contact with skin, eyes and clothing Remove all sources of ignition. Keep people away from and upwind of spill/leak
<b>Environmental Precautions:</b>	Do not allow material to contaminate ground water system. Prevent further leakage or spillage. Local authorities should be advised if significant spillages cannot be contained.
<b>Methods for Cleaning up:</b>	Wear suitable protective equipment.  Small spills: Dilute with water and mop up, or absorb with an inert material and place in an appropriate waste disposal container.  Large spills: Contain and collect for later disposal according to local, provincial, state or federal regulations.
<b>Methods for Containment:</b>	Prevent further leakage or spillage if safe to do so

## 7. HANDLING AND STORAGE.

<b>Handling:</b>	<p>Read label before use          Ensure adequate ventilation.          Do not ingest          Avoid contact with skin and eyes          Wear suitable protective clothing, gloves and eye/face protection          Remove and wash contaminated clothing before re-use          DO NOT mix with bleach or other cleaning products.          Do not allow to come in contact with any other surfaces other than the toilet bowl.</p>
<b>Storage:</b>	<p>Keep containers tightly closed in a dry, cool and well-ventilated place          Keep away from heat and sources of ignition.          Keep locked-up          Keep out of the reach of children          Keep away from food, drink and animal feedingstuffs</p>

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION.

### Exposure limits

The product does not contain any hazardous materials with occupational exposure limits established.

Chemical Name	EU	Germany TRGS900:	German mak:	France - OEL	Belgium - OEL	Netherlands - OEL
HYDROCHLORIC ACID 7647-01-0		TWA: 2 ppm TWA: 3 mg/m <sup>3</sup>	MAK: 2 ppm MAK: 3.0 mg/m <sup>3</sup> Peak: 4 ppm Peak: 6 mg/m <sup>3</sup>	VLCT: 7.6 mg/m <sup>3</sup> VLCT: 5 ppm	STEL: 10 ppm STEL: 15 mg/m <sup>3</sup> TWA: 5 ppm TWA: 8 mg/m <sup>3</sup>	STEL: 15 mg/m <sup>3</sup> STEL: TWA: 8 mg/m <sup>3</sup> TWA

Chemical Name	Norway - OEL	UK - OES	Portugal - OEL	Spain - OEL	Sweden - OEL	Austria - OEL
HYDROCHLORIC ACID 7647-01-0	Ceiling: 5 ppm Ceiling: 7 mg/m <sup>3</sup>	5 ppm STEL (aerosol mist and gas); 8 mg/m <sup>3</sup> STEL (aerosol mist and gas) = 5 ppm STEL 5 ppm STEL (aerosol mist and gas); 8 mg/m <sup>3</sup> STEL (aerosol mist and gas) = 8 mg/m <sup>3</sup> STEL 1 ppm TWA (aerosol mist and gas); 2 mg/m <sup>3</sup> TWA (aerosol mist and gas) = 1 ppm TWA 1 ppm TWA (aerosol mist and gas); 2 mg/m <sup>3</sup> TWA (aerosol mist and gas) = 2 mg/m <sup>3</sup> TWA	Ceiling: 2 ppm	VLA-EC: 10 ppm VLA-EC (indicative limit value); 15 mg/m <sup>3</sup> VLA-EC (indicative limit value) VLA-ED: 5 ppm VLA-ED (indicative limit value); 7.6 mg/m <sup>3</sup> VLA-ED (indicative limit value)	CLV: 5 ppm CLV: 8 mg/m <sup>3</sup>	STEL: 10 ppm STEL: (8 X 5 min); 15 mg/m <sup>3</sup> STEL (8 X 5 min) MAK: 5 ppm MAK; 8 mg/m <sup>3</sup> MAK

Chemical Name	Finland - OEL	Italy - OEL
HYDROCHLORIC ACID 7647-01-0	STEL: 5 ppm STEL: 7.6 mg/m <sup>3</sup>	STEL: 10 ppm STEL: 15 mg/m <sup>3</sup> STEL TWA: 5 ppm TWA; 8 mg/m <sup>3</sup> TWA

### Occupational exposure controls

**Engineering Controls:** Ensure adequate ventilation, especially in confined areas.

### Personal Protective Equipment

<b>Respiratory Protection:</b>	<p>No personal respiratory protective equipment normally required.          For Occupational exposures, where exhaust ventilation is not adequate to control contaminant levels to below the regulatory TWA, appropriate acid gas or self-contained breathing apparatus (SCBA) respiratory equipment should be worn.          Emergency responders should wear self-contained breathing apparatus (SCBA) to avoid inhalation of vapors generated by this product during a spill or other clean-up operations.</p>
<b>Eye Protection</b>	<p>Avoid contact with eyes.          Wear eye/face protection          Emergency responders should wear full eye and face protection.</p>
<b>Hand Protection:</b>	<p>Avoid contact with skin          Wear protective gloves/clothing          Emergency responders should wear impermeable gloves.</p>
<b>Skin and Body Protection:</b>	<p>Usual safety precautions while handling the product will provide adequate protection against injury or irritation. Follow product label instructions.          In case of continuous exposure or occupational operations, wear protective clothing designed and appropriate for acid chemical exposure.          Emergency responders should wear impermeable clothing and footwear when responding to a situation where contact with the liquid is possible.</p>

### Hygiene measures

When using, do not eat, drink or smoke.

### Environmental exposure controls

Local authorities should be advised if significant spillages cannot be contained



## 9. PHYSICAL AND CHEMICAL PROPERTIES.

Physical State:	Liquid
Appearance:	Clear
Colour:	Dark blue
Odour:	Original Scent
pH	< 1
Boiling Point/Range:	No information available
Melting Point/Range	No information available
Solubility:	Completely soluble.
Specific Gravity / Density [g/mL]:	1.020 - 1.040 g/cm <sup>3</sup> @ 20°C
Flash Point:	> 93°C / > 200°F
Viscosity:	200 - 400 mPa's @ 20°C

## 10. STABILITY AND REACTIVITY.

Stability	Stable under normal conditions.
Conditions to Avoid	Store away from excessive heat and moisture.
Incompatible Products	Incompatible with strong acids and bases. Incompatible with oxidizing agents.
Hazardous Decomposition Products	Thermal decomposition can lead to release of irritating gases and vapors Chlorine Oxides of carbon and unknown organic compounds.
Hazardous Polymerization	Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION.

### PRODUCT TOXICITY DATA

LD <sub>50</sub> Oral:	No information available.
LD <sub>50</sub> Dermal:	No information available.
LC <sub>50</sub> Inhalation (Dust):	Not applicable.
LC <sub>50</sub> Inhalation (Vapor):	No information available.
<b>Acute Effects:</b>	
Eye Irritation	Corrosive liquid. Causes severe burns Avoid eye contact.
Skin Irritation	Corrosive liquid Causes severe burns Avoid contact with skin
Inhalation	None expected during normal conditions of use. Use only in a well ventilated area.
Ingestion	Do not ingest Contains hydrochloric acid. May be harmful if swallowed. See Section 4 for First Aid instructions.
Sensitization	Not expected to be a skin sensitizer
<b>Specific Effects</b>	
Carcinogenic Effects:	Not listed as carcinogenic by OSHA, NTP or IARC.
Mutagenic Effects	No information available.
Reproductive Toxicity:	No information available.
Additional Toxicity Information:	Information is based on available component data and toxicity result of similar products.

### COMPONENT TOXICITY DATA

Chemical Name	CAS#	LD50 Oral - With Units - Rat - mg/kg	LD50 Dermal - With Units - Rat/Rabbit - mg/kg	LC50 - With units - Rat/Rabbit - For Display
HYDROCHLORIC ACID	7647-01-0	700 mg/kg ( Rat )	5010 mg/kg ( Rabbit )	3124 ppm ( Rat ) 1 h



## 12. ECOLOGICAL INFORMATION.

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### Ecotoxicity:

**Ecological Information:** Contained surfactants are ultimately biodegradable according to the EU Detergent Regulation, 648/2004.

### PRODUCT TOXICITY DATA

**Aquatic toxicity:** This product is not classified as an environmental hazard.

### COMPONENT TOXICITY DATA

#### *HYDROCHLORIC ACID*

<b>Freshwater Algae</b>	-
<b>Freshwater Fish</b>	LC50 = 282 mg/L Gambusia affinis 96 h
<b>Microtox</b>	-
<b>Water Flea</b>	-

#### *PEG-2 TALLOW AMINE*

<b>Freshwater Algae</b>	-
<b>Freshwater Fish</b>	-
<b>Microtox</b>	-
<b>Water Flea</b>	-

### Other Information

**Ozone Depletion Potential (ODP) (R-11 = 1):** No information available.

**Global Warming Potential (GWP):** No information available.

**Additional Ecological Information:** Information given is based on data on the components and the ecotoxicology of similar products.

## 13. DISPOSAL CONSIDERATIONS.

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**Disposal Methods and Containers:** This material and its container must be disposed of in a safe way

**Contaminated Packaging:** For bulk quantities dispose of in accordance with local, regional or national requirements. For further information contact your local waste authority.

**Further information:** According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

Waste codes should be assigned by the user based on the application for which the product was used.

Packaging and container to be recycled only if emptied completely!



## 14. TRANSPORT INFORMATION.

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### ICAO

**UN-No:** UN1760  
**Proper shipping name:** Corrosive liquid, n.o.s (CONTAINS HYDROCHLORIC ACID, PEG-2 TALLOW AMINE)  
**Hazard Class:** 8  
**Packing group:** II  
**Description:** Corrosive liquid, n.o.s.(HYDROCHLORIC ACID, PEG-2 TALLOW AMINE ),8,UN1760,PG II

### IATA

**UN-No:** UN1760  
**Proper shipping name:** Corrosive liquid, n.o.s (CONTAINS HYDROCHLORIC ACID, PEG-2 TALLOW AMINE)  
**Hazard Class:** 8  
**Packing group:** II  
**Description:** Corrosive liquid, n.o.s.(HYDROCHLORIC ACID, PEG-2 TALLOW AMINE ),8,PG II  
**Maximum Quantity:** LTD QTY: Packaging Instruction Y808: 0.1L Inner Packaging, 0.5L Combined Packaging, Only Combined packaging Allowed.  
PAX: Packaging Instruction 808: 1L Inner Packaging, 1L Combined Packaging, Only Combined Packaging Allowed.  
CAO: Packaging Instruction 812: 2.5L inner Packaging, 30L Net Quantity / Packaging, Single and Combination Packagings are allowed.  
**Remarks:** Requirements from States or Airlines may differ.

### IMDG/IMO

**UN-No:** UN1760  
**Proper Shipping Name:** Corrosive liquid, n.o.s (CONTAINS HYDROCHLORIC ACID, PEG-2 TALLOW AMINE)  
**Hazard Class:** 8  
**Packing Group:** II  
**Ems:** F-A S-B  
**Description:** Corrosive liquid, n.o.s.(HYDROCHLORIC ACID, PEG-2 TALLOW AMINE ),8(+),PG II  
**Limited Quantity IMDG:** 1L inner packaging, 30Kg. combined packaging, 1L inner packaging, 20 Kg. Tray.

### RID

**UN-No:** UN1760  
**Proper shipping name:** Corrosive liquid, n.o.s (CONTAINS HYDROCHLORIC ACID, PEG-2 TALLOW AMINE)  
**Hazard Class:** 8  
**Packing group:** II  
**Classification Code:** C9  
**Description:** Corrosive liquid, n.o.s.(HYDROCHLORIC ACID, PEG-2 TALLOW AMINE ),8,II,RID  
**ADR/RID-Labels:** 8 (If not LQ)

### ADR

**UN-No:** UN1760  
**Proper shipping name:** Corrosive liquid, n.o.s  
**Hazard Class:** 8  
**Packing group:** II  
**Classification Code:** C9  
**Description:** Corrosive liquid, n.o.s.(HYDROCHLORIC ACID, PEG-2 TALLOW AMINE ),8,II  
**ADR/RID-Labels:** 8 (If not LQ)

**ADR/RID Limited Qty** LQ22  
1L inner packaging, 30 kg combined packaging.  
0.5L inner packaging, 20 Kg Tray.

## 15. REGULATORY INFORMATION.

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**Chemical safety assessment following regulation 1907/2006/EC:** not relevant.

**In accordance with local and national regulations:** The preparation is classified as dangerous in accordance with Directive 1999/45/EC

### Labelling

Contains Hydrochloric Acid

Symbol(s)

C - Corrosive



R -phrase(s)

R35 - Causes severe burns

S -phrase(s)

S13 - Keep away from food, drink and animal feedingstuffs  
 S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  
 S28 - After contact with skin, wash immediately with plenty of water.  
 S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)  
 S50 - Do not mix with bleach or other cleaning products.  
 S64 - If swallowed, rinse mouth with water (only if the person is conscious)

Safety Combination Phrases

S1/2 - Keep locked up and out of the reach of children  
 S24/25 - Avoid contact with skin and eyes  
 S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection

Additional Recommended Phrases:

This material and its container must be disposed of in a safe way.  
 Do not allow to come into contact with any surfaces other than the toilet bowl.

Ingredient Declaration:

Per 100 gm. of liquid: Contains 6.75 gm of Hydrochloric Acid.  
 Contains less than (<) 5% Nonionic surfactants.  
 Contains less than (<) 5% Cationic surfactants.  
 Disinfectant.  
 Perfume.

## 16. OTHER INFORMATION.

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**Risk Phrases:**

- R22 - Harmful if swallowed.
  - R34 - Causes burns.
  - R35 - Causes severe burns.
  - R50 - Very toxic to aquatic organisms.
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This document complements the technical usage instructions but does not replace them. The information contained herein is based on our best current knowledge of the product concerned, and is given in good faith. The attention of recipients is drawn to (amongst other things) the element of risk consequent to use of the product other than that for which it was intended.

In no way does this document remove the need of the recipient of the product to fully understand and apply statutory requirements. It is the recipient's sole responsibility to take due precautions relative to the use made of the product. All information contained herein is only to assist the recipient in fulfilling their statutory duty connected with the use of hazardous materials.

This list of information must not be considered as exhaustive, and does not exonerate the recipient from taking other precautions described in documents other than those mentioned, concerning the storage and use of the product, for which they remain the sole person responsible.