



PRODUCT SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Identification of Substance or Preparation

Trade Name Harpic PowerPlus

Preparation Name Harpic PowerPlus

Product Format Viscous liquid

1.2 Use of the substance / preparation Liquid Toilet Cleaner

1.3 Company / Supplier Identification

Reckitt Benckiser UK
Delta Business Park
1200 Welton Road
Swindon
Wiltshire
SN5 7XZ

Tel: +44 (0)8457 697079

1.3.1 Distributor In Republic Of Ireland

F A Wyatt
Unit 9
Keypoint Business Park
Ballycoolin Road
Blanchards Town
Dublin 11

Tel: +353 (0) 166 173 18

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization

Aqueous solution of Hydrochloric acid and surfactants.

Dangerous Ingredients

CAS No.	EEC – No.	Material	M% - range	Symbol	R-phrases
7647-01-0	231-595-7	Hydrochloric Acid	10-<30%	C	R34-37
112-02-7	203-928-6	Hexadecyl trimethyl ammonium chloride	<10%	Xn, C	R22 - 34
25307-17-9	246-807-3	Oleylbis(2-hydroxyethyl) amine	<10%	Xn, C, N	R22-34-50

Key to R Phrases:

- R22 Harmful if swallowed
- R34 Causes burns
- R37 Irritating to respiratory system
- R50 Very toxic to aquatic organisms

3. HAZARDS IDENTIFICATION

3.1 For Humans (additional information is given under item 11)

Classified Corrosive C, following 1999/45/EC. Causes burns. Acidic reaction. May form caustic fumes.

3.2 For the Environment

Can be harmful to aquatic organisms due to pH change.

3.3 For Materials

Corrosive to most metals. In aqueous solution, evolves hydrogen with metals.

4. FIRST-AID MEASURES

4.1 Inhalation

Remove from danger area and provide for fresh air. Remove contaminated clothes immediately. If irritation persists consult physician.

4.2 Skin Contact

Wash off immediately with large amounts of water. If irritation persists consult physician

4.3 Eye Contact

Flush out eyes immediately with large amounts of water with eye lids lifted. Summon a doctor immediately.

4.4 Ingestion

Do not cause vomiting. Rinse mouth and drink plenty of water. Call physician

4.5 Note to Physician

Symptomatic treatment. No specific antidotes known.

4.6 Special Equipment

n.av.

5. FIRE-FIGHTING MEASURES

5.1 Suitable Extinguishing Media

Water, foam, dry chemicals, CO₂.

5.2 Extinguishing Media to Avoid

Water hose stream.

5.3 Fire and Explosion Hazards

In case of fire dangerous fumes are: Hydrogenchloride (HCl)

5.4 Additional Information

This material is not combustible; use extinguishing media appropriate for surrounding fire.

Spray down fumes resulting from fire.

Firefighting water reacts corrosive.

5.5 Special Protective Equipment

Wear positive pressure self-contained breathing apparatus.

Wear full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

See also Sections 8 and 13

6.1 Personal Precautions

See No. 8.3 Personal Protective Equipment. Provide sufficient ventilation.

6.2 Environmental Precautions and Methods for Cleaning up

Do not allow larger quantities to enter drainage.

Inform responsible authorities after accidental conduction of larger quantities.

Soak up with absorbent material. Dispose of absorbed material in accordance with the regulations.

6.3 Further Information

None.

7. HANDLING AND STORAGE

7.1 Handling

Precautions for Safe Handling

Keep container tightly closed and dry. Close container straight after use or if empty. Caution at reopening used containers.

Precautions in Case of Fire and Explosion

The product is not combustible. No special measures necessary.

7.2 Storage

Storage Instructions

Floor must be resistant against acids. Store in cool and dry place.

Store away from

Store away from lyes, oxidizers.

Further Information on Storage Conditions

Store in a cool, dry, frost-free place out of the reach of children.

Storage Class
8 (VCI – concept)

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

See also Section 7

8.1 Information on System Design

Open and handle container with care. Provide personal protective equipment.

8.2 Exposure Limits

Material	Limit Value
Hydrochloric Acid	MAK 8mg/cu.m
	OES 15min STEL 8mg/m ³
	OES 8hour TWA 2mg/m ³

8.3 Personal Protective Equipment

General Protection and Hygiene

Avoid contact with eyes and skin. Do not inhale vapours. Remove contaminated, saturated clothing immediately. When using, do not eat, drink or smoke.

Respiratory Protection

If ventilation is insufficient, wear respiratory protection
Short term: combination filter B-P2

Hand Protection

Gloves (acid resistant)

Eye Protection

Tightly fitting goggles

Skin Protection

Light protective clothing

Further information

Refer to special restrictions in wearing protective equipment

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Appearance

Form	Liquid
Colour	Blue

9.2 Safety Relevant Information

pH-value, undiluted	<0.5
Boiling point/Boiling range (°C)	100°C (water)
Melting point/melting range (°C)	n.av.
Flash point (°C, c.c.)	n.ap.

Flammability (EEC A10/A13)	n.ap.
Ignition temperature (°C)	n.ap.
Autoflammability	(EEC A16)
Oxidising properties	None
Explosion hazard	No.
Explosion limits (Vol.%) lower: n.ap., upper	n.ap.
Vapour pressure	n.av.
Density (g/ml)	1.0
Solubility in water	miscible
Partition coefficient, n-Octanol/Water	n.av.
Viscosity	n.av.
Solvent separation test	n.ap.
Solvent content (m%)	n.ap.

9.3 Further Data

Thermal decomposition (°C)	n.av.
Vapour density (Air=1)	n.av.
Evaporation rate	n.ap.

10. STABILITY AND REACTIVITY

10.1 Conditions to Avoid

Temperatures > 70°C

10.2 Materials to avoid

Reaction with alkali, chlorine bleaches and metals.

10.3 Hazardous decomposition products

Hydrogen Chloride (HCL)

10.4 Further Information

None

11. TOXICOLOGICAL INFORMATION

See also Section 2 and 3

11.1 Toxicological Tests

Acute Health Effects

Inhalation, LC50 rat, (mg/l/4h):	n.av.
Ingestion, LD50 rat, (mg/kg):	n.av.
Skin contact, LD50 rat, (mg/kg):	n.av.
Irritation (to skin/eye):	Corrosive
Sensitisation:	n.av.

Subacute/Chronic Toxicity

Carcinogenicity:	n.av.
Mutagenicity:	n.av.
Teratogenicity:	n.av.
Narcotic Effects:	n.ap.

11.2 Practical Experience

Observations relevant for classification	None
Further Observations	None

11.3 General Remarks

Classification of the preparation has been done by calculation in accordance with EEC directives.

12. ECOLOGICAL INFORMATION

See also Sections 6,7,13 and 15

12.1 Ecotoxic Effects, Aquatic Toxicity

n.av.

12.2 Behaviour in Sewage Works Mobility and Accumulation Potential

n.av.

12.3 Elimination (Persistence and Degradability)

Good eliminable from water. Can be eliminated from the water by precipitation or flocculation.

12.4 Other Ecological Information

COD-Value, mg/g:	n.ap.
BOD5-Value, mg/g:	n.ap.
AOX-Remarks:	n.ap.
Significant Components	None

Other adverse effects: None

13. DISPOSAL CONSIDERATIONS

13.1 Residues

Recommendation: R 3/4, D 5/9
Waste – Code – No.: 20 01 29
In addition comply with the regional authorities.

Safe handling: See item 7 and 12

13.2 Contaminated Packaging

Recommendation: Wash with suitable cleaner. Otherwise as described under Residues.

Safe handling: As described under Residues

14. TRANSPORT INFORMATION

Transportation by Road or Railway according to ADR/GGVS and RID/GGVE

Remarks

Class : 8 **Classification Code : C1** **Packing Group : III**
Hazard-No. : 80 **UN-No. : 1789**

Instruction Concerning Shipper's Declaration and Packaging

Volume or Mass	Name and Description	Risklabel	Packing - Code or instruction
3 l Inner, max. 12 l per box	UN 1789 Hydrochloric acid, Solution	n.ap.	--/4G
25 l PE	UN 1789 Hydrochloric acid, Solution	8	3H1/Z

Limited Quantities: LQ 19

Classification for Transportation by Vessels according to IMDG/GGV

Remarks

Class : 8 UN-No. : 1789 **Packing Group : III**

EmS-No. : 8-03

Marine Pollutant : No.

Instruction for Declaration and Labelling :

Proper Shipping Name Hydrochloric acid, Solution
Risk Label Corrosive

Remarks : None.

15. REGULATORY INFORMATION

Classification according to EEC-Regulations

Classification required by EEC: Yes.

Hazard Symbol(s)



Hazard Identification: Corrosive

Component(s): Contains Hydrochloric Acid

R-Phrases

R34 Causes burns

S-Phrases

- S1/2 Keep locked up and out of reach of children
S24/25 Avoid contact with skin and eyes
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 After contact with skin rinse immediately with plenty of water
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show this container or label)
S64 If swallowed, rinse mouth with water (only if the person is conscious)
If swallowed, drink plenty of water and seek medical advice immediately.

DO NOT USE WITH ANY LIQUID BLEACHES OR POWDER CLEANERS

DO NOT ALLOW TO COME INTO CONTACT WITH ANY SURFACES OTHER THAN THE TOILET BOWL

Additional Markings

The above mentioned labeling is valid for distribution to private consumer.
Labeling (formats, exemptions, additional markings) has to be done according to respective regulations.

National Regulations

OC – Content: n.av.

16. OTHER INFORMATION

This product contains amongst other ingredients:
Less than 5 % Non ionic and Cationic surfactants
Perfume

Risk phrases:

- R 22: Harmful if swallowed.
R 34: Causes burns.
R 37: Irritating to respiratory system.
R 50: Very toxic to the aquatic organisms

This Material Safety Data Sheet relates to 2001/58/EEC and TRGS 220.
The statements in this Material Safety Data Sheet were made to the best of our knowledge and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.

Data sources used in the preparation of this Safety Data Sheet:
Raw material supplier's Safety Data Sheets and Annex I of 67/548/EEC.
Harpic is a trademark

This document complements the technical usage instructions but does not replace them. The information contained herein is based on our best current technical 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 for a purpose 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 included only to assist the recipient in fulfilling his or her 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 he or she remains the sole person responsible.

Safety data referring to: 2001/58/EC, 67/548/EEC and TRGS 220

PSDS Created on: 05/01/07

Version: 2.0

Reason for revision: Update product name and formulation