PRODUCT SAFETY DATA SHEET



1. IDENTIFICATION OF THE PREPARATION AND THE COMPANY IDENTIFICATION.

Trade Name: HARPIC White and Shine - Original

Product Format: Liquid

Product Use: Toilet Bleach

Supplier in UK: Supplier in The Republic Of Ireland:

Reckitt Benckiser Ireland Ltd

Wellcroft House 7 Riverwalk

Wellcroft Road Citywest Business Campus

Slough, Dublin 24
Berkshire Ireland

SL1 4AQ

Contact Telephone: 0845 769 7079 Contact Telephone: 01 661 7318

Hours of Operation: 08:30 - 16:30 weekdays Hours of Operation: 09:00 - 17:00 weekdays

Contact Email: consumer.relations-ukroi@reckittbenckiser.com

Date Issued:RB Ref No:Issue:RB parent code:Revisions:19 Nov 201240477209033D0018000 v8Name Change



2. HAZARDS IDENTIFICATION.

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Directive 1999/45/EC [DPD]

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

: Xi; R36/38 Classification

Human health hazards : Irritating to eyes and skin.

See Section 16 for the full text of the R phrases or H statements declared above. See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard symbol or symbols



Indication of danger : Irritant

Risk phrases : R36/38- Irritating to eyes and skin. Safety phrases : S2- Keep out of the reach of children. S24/25- Avoid contact with skin and eyes.

S28- After contact with skin, wash immediately with plenty of water.

S46- If swallowed, seek medical advice immediately and show this container or label.

S51- Use only in well-ventilated areas.

S26- In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

Special packaging requirements

Containers to be fitted with child-resistant fastenings

: Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards

Other hazards which do not: Not available.

result in classification

Additional information : Short term Skin Bleaching agent. IF ON SKIN: Rinse skin with water. Additional guidance : Do not mix with Other Products May release dangerous gases (chlorine).



3. COMPOSITION / INFORMATION ON INGREDIENTS.

Substance/mixture

: Mixture

			Classification		
Product/ingredient name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
Sodium hypochlorite	EC: 231-668-3 CAS: 7681-52-9 Index: 017-011-00-1	< 2.5	C; R34 R31 N; R50	Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400	[1]
Alcohols, C10-16, ethoxylated, sulfates, sodium salts	EC: 500-223-8 CAS: 68585-34-2	< 2.5	Xi; R36/38	Skin Irrit. 2, H315 Eye Dam. 1, H318	[1]
Sodium Hydroxide	EC: 215-185-5 CAS: 1310-73-2 Index: 011-002-00-6	< 2.5	C; R35	Skin Corr. 1A, H314 Eye Dam. 1, H318	[1] [2]
Amines, C12-18- alkyldimethyl, N-oxides	EC: 273-281-2 CAS: 68955-55-5	0.25 - 1	Xi; R41, R38 N; R50	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400	[1]
			See Section 16 for the full text of the R- phrases declared above.	See Section 16 for the full text of the H statements declared above.	

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Not applicable. on the manufacture,

placing on the market and use of certain dangerous substances, mixtures and articles

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

<u>Type</u>

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

Occupational exposure limits, if available, are listed in Section 8.



4. FIRST-AID MEASURES.

4.1 Description of first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10

minutes. Get medical attention.

Inhalation : Move exposed person to fresh air. Get medical attention if adverse health effects

persist or are severe.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash

clothing before reuse.

Ingestion : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may

be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact : Irritating to eyes.

Inhalation : No known significant effects or critical hazards.

Skin contact : Irritating to skin.

Ingestion: Irritating to mouth, throat and stomach.

Over-exposure signs/symptoms

Eye contact: Adverse symptoms may include the following:

watering redness

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:

irritation redness

Ingestion : No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Specific treatments : No specific treatment.



5. FIREFIGHTING MEASURES.

5.1 Extinguishing media

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

media

: None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products

 Decomposition products may include the following materials: carbon dioxide carbon monoxide

halogenated compounds metal oxide/oxides

5.3 Advice for firefighters

Special protective actions for fire-fighters

 Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

6. ACCIDENTAL RELEASE MEASURES.

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders :

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also Section 8 for additional information on hygiene measures.

6.2 Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and materials for containment and cleaning up

Small spill

: Stop leak if safe to do so. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

6.4 Reference to other sections

See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.



7. HANDLING AND STORAGE.

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Storage

: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end use(s)

Recommendations Industrial sector specific solutions Not available.Not available.



8. EXPOSURE CONTROLS AND PERSONAL PROTECTION.

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
Sodium Hydroxide	EU OEL (Europe, 8/2007). STEL: 2 mg/m³ 15 minute(s).
	EH40/2005 WELs (United Kingdom (UK), 8/2007). STEL: 2 mg/m³ 15 minute(s).
	Rozporządzenie Ministra Pracy i Polityki Społecznej (Poland, 8/2010). TWA: 0.5 mg/m³ 8 hour(s). STEL: 1 mg/m³ 15 minute(s).

Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

8.2 Manufacturer: Exposure controls

Appropriate engineering controls

: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

 Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Permeation level 6, Penetration level 3 following EN374, taking into consideration the exposure of chemicals given in chapter 3.

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.



9. PHYSICAL AND CHEMICAL PROPERTIES.

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid. [Viscous liquid.]

Color : White. Odor : bleach Citrus

Odor threshold : Not available. pН : 12.5 to 13.5 Melting point/freezing point : Not available. Initial boiling point and boiling : Not available.

range

Flash point : Closed cup: >100°C : Not available. **Evaporation rate** Flammability (solid, gas) : Not available. **Burning time** : Not applicable. **Burning rate** : Not applicable.

Upper/lower flammability or

explosive limits

: Not available.

: Not available. Vapor pressure : Not available. Vapor density : 1.03 to 1.05 g/cm3 Density

Solubility(ies) : Easily soluble in the following materials: cold water and hot water.

Partition coefficient: n-

octanol/water

Viscosity

: Not available. : Not available.

Decomposition temperature

: Dynamic: 400 to 700 mPa·s

: Not available. **Explosive properties** : Not available. Oxidizing properties

Chlorine Content (%) : 1.9 - 2.1 Alkali. Test [g HCI/100g : 1.05

Product]

9.2 Other information

No additional information.

10. STABILITY AND REACTIVITY.

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

10.3 Possibility of hazardous :

Under normal conditions of storage and use, hazardous reactions will not occur.

Polymerization.: There are no data available on the preparation itself.

10.4 Conditions to avoid : Do not mix with acids or oxidizing agents May release dangerous gases (chlorine).

10.5 Incompatible materials : Do not mix with chlorine-based bleaching agents and Other Products.

Keep away from: acids,organic materials,strong alkalis

May be corrosive to metals.

10.6 Hazardous

decomposition products

: Hazardous decomposition products : carbon oxides , Various Organic chemicals.

Instability Conditions : Not available.

Instability temperature : Not available.



11. TOXICOLOGICAL INFORMATION.

11.1 Information on toxicological effects

Acute toxicity

No known effect according to our database.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Sodium hypochlorite	Eyes - Mild irritant Eyes - Moderate irritant	Rabbit Rabbit	-	-	-
Sodium Hydroxide	Eyes - Severe irritant Eyes - Mild irritant Eyes - Severe irritant Skin - Mild irritant	Monkey Rabbit Rabbit Human	- - -	- - -	- - -
	Skin - Severe irritant	Rabbit	-	-	-

Sensitization

No known effect according to our database.

Mutagenicity

No known effect according to our database.

Carcinogenicity

No known effect according to our database.

Reproductive toxicity

No known effect according to our database.

Teratogenicity

No known effect according to our database.

Potential acute health effects

Eye contact : Irritating to eyes.

Inhalation : No known significant effects or critical hazards.

Skin contact : Irritating to skin.

Ingestion: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:

irritation watering redness

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:

irritation redness

Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.



Long term exposure

Potential immediate : Not available. effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary : Not available.

General: No known significant effects or critical hazards.Carcinogenicity: No known significant effects or critical hazards.Mutagenicity: No known significant effects or critical hazards.Teratogenicity: No known significant effects or critical hazards.Developmental effects: No known significant effects or critical hazards.Fertility effects: No known significant effects or critical hazards.

Other information : Not available.



12. ECOLOGICAL INFORMATION.

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Sodium hypochlorite	Acute EC50 46 mg/l Marine water	Algae - Gracilaria tenuistipitata	4 days
	Acute LC50 56.4 mg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 0.032 mg/l Fresh water	Daphnia - Daphnia magna - <24 hours	48 hours
	Acute LC50 0.032 mg/l Marine water	Fish - Oncorhynchus kisutch - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
Alcohols, C10-16, ethoxylated, sulfates, sodium salts	Acute EC50 3.43 mg/L Fresh water	Daphnia - Ceriodaphnia dubia - Neonate - <24 hours	48 hours
Sodium Hydroxide	Acute EC50 40.38 mg/L Fresh water	Daphnia - Ceriodaphnia dubia - Neonate - <24 hours	48 hours
	Acute LC50 33000 to 100000 ug/L Marine water	Crustaceans - Crangon crangon - Adult	48 hours
	Acute LC50 125000 ug/L Fresh water	Fish - Gambusia affinis - Adult	96 hours
	Chronic NOEC 56 mg/L Marine water	Fish - Poecilia reticulata - Young - 3 to 4 weeks	96 hours

12.2 Persistence and degradability

No known effect according to our database.

12.3 Bioaccumulative potential

No known effect according to our database.

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable. vPvB : Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.



13. DISPOSAL CONSIDERATIONS.

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal

: Waste must be disposed of in accordance with federal, state and local environmental control regulations. Waste packaging should be recycled.

Hazardous waste

: Within the present knowledge of the supplier, this product is not regarded as

hazardous waste, as defined by EU Directive 91/689/EEC.

Packaging

Methods of disposal

: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered

when recycling is not feasible.

Special precautions

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. TRANSPORT INFORMATION.

For long distance transport of bulk material or shrunk pallet take into consideration sections 7 and 10.

	ADR/RID	ADN/ADNR	IMDG	IATA
14.1 UN number	UN3266	UN3266	UN3266	UN3266
14.2 UN proper shipping name	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium hypochlorite , Sodium Hydroxide)	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium hypochlorite , Sodium Hydroxide)	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium hypochlorite, Sodium Hydroxide).	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium hypochlorite, Sodium Hydroxide)
14.3 Transport hazard class(es)	8	8	8	8
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	No.	No.	No.	No.
14.6 Special precautions for user	Not available.	Not available.	Not available.	Not available.
Additional information	Hazard identification number 80 Limited quantity 5 L Special provisions 274	-	Limited quantity 5 L Emergency schedules (EmS) F-A, S-B	See DG-List.
	Tunnel code (E)			

15. REGULATORY INFORMATION.

Chemical Safety Assessment following regulation 1907/2006/EC: Not relevant.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture



16. OTHER INFORMATION.

Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/20081

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

Key literature references

and sources for data

: Not available.

Europe

Full text of abbreviated H

statements

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage. H400 Very toxic to aquatic life.

Full text of classifications

[CLP/GHS]

Aquatic Acute 1, H400 AQUATIC TOXICITY (ACUTE) - Category 1

Eye Dam. 1, H318 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SKIN CORROSION/IRRITATION - Category 1A Skin Corr. 1A, H314 SKIN CORROSION/IRRITATION - Category 1B Skin Corr. 1B, H314

Skin Irrit. 2, H315

SKIN CORROSION/IRRITATION - Category 2

Full text of abbreviated R

phrases

R34- Causes burns.

R35- Causes severe burns.

R41- Risk of serious damage to eyes.

R38- Irritating to skin.

R36/38- Irritating to eyes and skin.

R31- Contact with acids liberates toxic gas. R50- Very toxic to aquatic organisms.

Full text of classifications

[DSD/DPD]

C - Corrosive Xi - Irritant

N - Dangerous for the environment

This document complements the technical usage instructions but does not replace them. The information contained herein is based on our best current knowledge if 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

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.