BLEACH 5%

PRODUCT LABEL AND DATA SHEET **PRODUCT CODE: LPB5**

About Product

Bleach is a premium grade concentrated liquid chlorine based on Sodium Hypochlorite. Designed to tackle stubborn stains on white fabrics as well as white porcelain bowls. This product will stain colour fabrics so please take care when using the product. Sodium Hypochlorite strength at time of manufacture 5%.

Properties

- Concentrated
- Strong Degreasing Properties
- Quick Cleaning Reaction
- Areas of use - White Fabrics/Porcelain.

Colour: Clear
Appearance: Liquid
pH: 12-13
Density: 1.1 Kg/Lt
Packaging: 750ml; 1Lt, 5Lt; 25Lt
Smell: Characteristic

Storage & Handling

METHOD OF APPLICATION

General Cleaning - Use 10ml per 1 Litre water. Soak for stubborn Stains
Heavy Duty Cleaning - Use 25ml per toilet bowl

Health & Safety

IF INGESTED, SEEK MEDICAL ATTENTION

Eyes:	Rinse with water. Seek medical care.
Ingestion:	Drink water. Seek medical care.
Skin:	Wash contact area with soap and water.
Inhalation:	Remove patient to fresh air.

IMPORTANT: Always keep product out of children's reach. Ensure that the product lid remains closed and tightened at all times. Keep away from extreme heat and naked flame.

WE DO NOT ACCEPT LIABILITY FOR CLAIMS OF ANY KIND FOR ANY LOSS INCLUDING, WITHOUT LIMITATION, CONSEQUENTIAL LOSS, INJURY OR DAMAGE ARISING FROM THE USE OF THE PRODUCTS WHICH ARE THE SUBJECT MATTER HEREOF.

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SAFETY DATA SHEET

1. Identification of the substance/preparation and of the company

Product name	:	**BLEACH 5%**
Product code	:	LPB5
Use of the substance/preparation	:	Bleach Cleaner / Refer to technical data sheet for use thereof

2. Composition/information on ingredients

Chemical characterization : Aqueous solution.

Ingredient name	CAS number	%	EC number	Classification
Sodium hypochlorite	7681-52-9	20 - 50	231-668-3	C; R34 R31

See section 16 for the full text of the R-phrases declared above

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

3. Hazards identification

The substance is classified as dangerous according to Directive 67/548/EEC and its amendments.

Classification : C; R34
R31

Physical/chemical hazards : No known significant effects or critical hazards.

Human health hazards : Contact with acids liberates toxic gas.
Causes burns.

Environmental hazards : No known significant effects or critical hazards.

See section 11 for more detailed information on health effects and symptoms.

4. First aid measures

Inhalation : Get medical attention immediately. Move exposed person to fresh air. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Ingestion : Get medical attention immediately. Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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Skin contact Get medical attention immediately. Flush contaminated skin with plenty of water. Continue to rinse for at least 10 minutes. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing or wear gloves. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Eye contact : Get medical attention immediately. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Chemical burns must be treated promptly by a physician.

See section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

Extinguishing media

Suitable : Use an extinguishing agent suitable for the surrounding fire.

Not suitable : None known.

Special exposure hazards : No specific hazard.

Hazardous thermal decomposition products : These products are halogenated compounds, hydrogen chloride.

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.

6. Accidental release measures

Personal precautions : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Methods for cleaning up : If emergency personnel are unavailable, contain spilled material. Neutralize caustic ingredients with vinegar or acetic acid or use an alkali spill kit. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

7. Handling and storage

Handling : Do not get in eyes or on skin or clothing. Keep container closed. Use only with adequate ventilation. Do not breathe vapor or mist. Wash thoroughly after handling.

Storage : Keep container tightly closed. Keep container in a cool, well-ventilated area.

Packaging materials

Recommended : Use original container.

8. Exposure controls/personal protection

Exposure limit values : Not available.

Occupational exposure controls : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.

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.

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.

Eye 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 : 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.

9. Physical and chemical properties

General information

Appearance

Physical state : Liquid.

Color : Colorless.

Odor : CLHORINE

Important health, safety and environmental information

pH : 12-13

Flammability (solid, gas) : Non-flammable substance.

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Relative density	:	1.03 g/cm^3
Solubility	:	Easily soluble in cold water. Insoluble in hot water, methanol, diethyl ether, n-octanol.
Octanol/water partition coefficient	:	The product is insoluble in water and octanol.

10. Stability and reactivity

Stability	:	The product is stable.
Conditions to avoid	:	No specific data.
Materials to avoid	:	Contact with acids liberates very toxic gas (chlorine)..
Hazardous decomposition products	:	These products are halogenated compounds, hydrogen chloride.

11. Toxicological information

Potential acute health effects

Inhalation	:	Corrosive to the respiratory system.
Ingestion	:	May cause burns to mouth, throat and stomach.
Skin contact	:	Corrosive to the skin.
Eye contact	:	Corrosive to eyes.

Acute toxicity

Product/ingredient name	Test	Result	Route	Species
Sodium hypochlorite	LD50	5800 mg/kg	Oral	Mouse

Potential chronic health effects

Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Reproductive toxicity	:	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Inhalation	:	No specific data.
Ingestion	:	No specific data.
Skin	:	No specific data.
Target organs	:	Contains material which causes damage to the following organs: skin, eye, lens or cornea

12. Ecological information

Ecotoxicity data

Ingredient name	Species	Period	Result
Sodium hypochlorite	Fathead minnow (LC50)	96 hour/hours	5.9 ppm
	Palaemonetes pugio (LC50)	96 hour/hours	52 ppm

Other ecological information

Persistence/degradability

Ingredient name	Aquatic half-life	Photolysis	Biodegradability
Bleach - 8%	-	-	Readily

Other adverse effects	:	May be harmful to the environment if released in large quantities.

13. Disposal considerations

Methods of disposal	:	Hazardous chemical waste. Neutralize caustic ingredients with vinegar or acetic acid or use an alkali spill kit. Waste must be disposed to a landfill permitted in terms of the Department of Water Affairs and Forestry's minimum requirements for waste disposal to landfill, and the minimum requirements for the handling, classification and disposal of hazardous waste.

14. Transport information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
ADR / SANS 10228 Class	UN1791	HYPOCHLORITE SOLUTION	8	III		**Hazard identification number** 80 **Limited quantity** LQ19 **CEFIC Tremcard** 80S1791

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IMDG Class	UN1791	HYPOCHLORITE SOLUTION	8	III		**Emergency schedules (EmS)** F-A, S-B
IATA Class	UN1791	Hypochlorite solution	8	III		**Quantity limitation - Passenger aircraft - Limited quantity** 1 L **Quantity limitation - Passenger aircraft** 5 L **Quantity limitation - Cargo aircraft** 60 L

15. Regulatory information

SANS 10265 / EU Regulations

Hazard symbol/symbols :

Corrosive

Risk phrases : R34- Causes burns.
R31- Contact with acids liberates toxic gas.

Safety phrases : S2- Keep out of the reach of children.
S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
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 the label where possible).

Contains : Sodium hypochlorite. 231-668-3

Product use : Classification and labeling have been performed according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and the intended use.
- Consumer applications.

16. Other information

Full text of R-phrases referred to in sections 2 and 3 - Europe : R34- Causes burns.
R31- Contact with acids liberates toxic gas.

Prepared by : Not available.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.