



SAFETY DATA SHEET

ZAMA Thin-Fragranced Bleach

Product Type: Thin Chlorine Bleach / Disinfectant
and Whitening Agent

Product Name: ZAMA Thin-Fragranced Bleach

Brand: Thuleka

Fragrance Variants: Pine Fresh | Citrus Burst

Document Version: 1.0

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SECTION 1: IDENTIFICATION OF THE PRODUCT AND SUPPLIER

1.1 Product Identifier

Product Name: ZAMA Thin-Fragranced Bleach

Product Type: Liquid disinfectant and whitening agent

Active Ingredient: Available chlorine/hypochlorite – exact identity to be confirmed

1.2 Recommended Use

Used for:

- Disinfecting floors, walls, and washable surfaces
- Removing stains and mildew
- Whitening suitable white fabrics when diluted
- Deodorising drains and bins
- Domestic, institutional, and light industrial cleaning

1.3 Restrictions on Use

- Do not mix with other cleaning products, acids, or ammonia.
- Do not use on coloured or delicate fabrics.
- Follow product directions.
- Avoid unnecessary contact with concentrated product.



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SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the Product

- Contains 3.0–4.5% active chlorine.
- May cause skin and eye irritation and may be harmful if swallowed.
- Mixing with acids or incompatible chemicals may release hazardous chlorine gas.
- Final classification depends on the exact formulation and South African regulations.

2.2 Label Elements

Signal word: WARNING / DANGER – subject to final classification.

Hazard statements:

- Causes skin and eye irritation.
- Harmful if swallowed.
- May release hazardous gases when mixed with acids.
- May be harmful to aquatic life.

Precautionary statements:

- Keep out of reach of children.
- Avoid eye and skin contact.
- Wear gloves and eye protection when handling concentrated product.
- Do not mix with acids, ammonia, or other cleaning products.
- Wash hands after handling.
- If in eyes or on skin, rinse thoroughly with water.
- If swallowed, seek medical attention.
- Keep container tightly closed.

2.3 Other Hazards

May bleach or damage coloured materials and surfaces. Spills may make smooth surfaces slippery.



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SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

ZAMA Thin-Fragranced Bleach is a water-based formulation containing an active chlorine compound, biodegradable surfactants, fragrance and other formulation ingredients.

Typical formulation components may include:

- Water
- Sodium hypochlorite or other chlorine-releasing compound – exact active ingredient to be confirmed
- Alkalinity/pH-adjusting agent, where applicable
- Biodegradable surfactants
- Fragrance
- Stabilising agents
- Other formulation ingredients

Active Chlorine Content: 3.0–4.5% w/v

Important: The final SDS should contain the exact chemical name, CAS number and concentration of hazardous ingredients where required by applicable legislation.



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SECTION 4: FIRST-AID MEASURES

4.1 Description of first-aid measures

Eye contact: Immediately rinse cautiously with plenty of clean water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention if irritation persists or if significant exposure has occurred.

Skin contact: Remove contaminated clothing where appropriate. Rinse the affected skin thoroughly with plenty of clean water. Seek medical attention if irritation persists.

Inhalation: Move the affected person to fresh air. Keep the person comfortable. Seek medical attention if coughing, breathing difficulties or other symptoms occur.

Ingestion: Rinse mouth with water. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Seek immediate medical attention.

4.2 Most important symptoms and effects

Possible effects include:

- Eye irritation or injury
- Skin irritation
- Burning or discomfort following direct exposure
- Respiratory irritation following exposure to concentrated vapour or chlorine-containing gases
- Gastrointestinal irritation following ingestion

4.3 Medical attention

Seek immediate medical attention following significant ingestion, serious eye exposure, breathing difficulties or persistent irritation.



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SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Use extinguishing media appropriate for the surrounding fire,

including:

- Water spray
- Foam
- Dry chemical
- Carbon dioxide

5.2 Specific hazards

The product itself is not expected to be flammable.

Heating or decomposition may release irritating or hazardous chlorine-containing gases.

Contact with incompatible materials may result in hazardous chemical reactions.

5.3 Advice for firefighters

Firefighters should:

- Wear suitable protective clothing.
- Use appropriate respiratory protection where necessary.
- Avoid breathing decomposition products.
- Keep containers cool with water spray where safe to do so.



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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions

- Avoid contact with skin and eyes.
- Avoid breathing vapour or spray.
- Keep unnecessary personnel away from the affected area.
- Wear suitable gloves and eye protection.
- Ensure adequate ventilation.
- Do not mix spilled product with acids, ammonia or other cleaning chemicals.

6.2 Environmental precautions

Prevent large quantities from entering drains, waterways or soil.

Avoid uncontrolled environmental release because chlorine-containing products may be harmful to aquatic organisms.

6.3 Methods for containment and cleaning

1. Stop the leak if it is safe to do so.
2. Isolate the affected area.
3. Wear suitable protective equipment.
4. Prevent the product from entering waterways where practicable.
5. Collect or absorb the spill using compatible absorbent material.
6. Place contaminated material in a suitable waste container.
7. Clean the affected area with plenty of water where appropriate.
8. Dispose of waste according to applicable local regulations.



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SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

- Handle concentrated product carefully.
- Avoid contact with eyes and skin.
- Wear appropriate PPE when handling large quantities.
- Avoid inhaling vapour or spray.
- Do not mix with acids.
- Do not mix with ammonia-containing products.
- Do not mix with other cleaning agents unless compatibility has been confirmed.
- Wash hands thoroughly after handling.

7.2 Conditions for safe storage

Store:

- In a cool, dry and well-ventilated area
- Away from direct sunlight
- Away from heat
- In tightly closed original containers
- Away from acids
- Away from ammonia-containing products
- Away from incompatible chemicals
- Out of reach of children

7.3 Incompatible materials

Avoid contact or mixing with:

- Acids
- Acidic cleaning products
- Ammonia-containing products
- Reducing agents
- Other incompatible cleaning chemicals

Never mix bleach with other cleaning products.



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SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Exposure limits

Exposure limits for individual ingredients, particularly chlorine and other hazardous components, should be determined from the final formulation and applicable occupational exposure standards.

8.2 Engineering controls

Provide adequate ventilation, particularly when handling concentrated product or large quantities.

8.3 Personal protective equipment

Normal use: Follow the product label and avoid direct contact with the concentrated product.

Bulk handling: Use suitable chemical-resistant protective gloves.

Eye protection: Safety glasses or chemical splash goggles are recommended where there is a risk of splashing.

Protective clothing: Suitable protective clothing should be worn when handling bulk quantities or cleaning large spills.

Respiratory protection: Normally not required when used correctly in a well-ventilated area. Appropriate respiratory protection may be required during significant exposure or emergency spill situations.



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Specification
Appearance	Clear to slightly cloudy liquid
Colour	Colourless or tinted, fragrance-dependent
Odour	Mild, pleasant, fresh scent
pH (neat)	11.0 – 12.5
Viscosity at 25°C	< 100 cP
Density at 25°C	1.03 – 1.08 g/cm ³
Solubility	Completely soluble in water
Active Chlorine Content	3.0 – 4.5% w/v
Physical state	Thin liquid
Flammability	Not expected to be highly flammable under normal conditions
Flash point	Not applicable / not expected to be flammable
Oxidising properties	To be confirmed from final formulation



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SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

The product contains an active chlorine compound and should not be mixed with incompatible chemicals.

10.2 Chemical stability

Stable under recommended storage conditions. Available chlorine may gradually decrease when exposed to heat, light or unsuitable storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions may occur when the product is mixed with incompatible chemicals, particularly acids or ammonia-containing products.

10.4 Conditions to avoid

- Direct sunlight
- Excessive heat
- High temperatures
- Freezing
- Contamination
- Mixing with incompatible chemicals

10.5 Incompatible materials

Avoid:

- Acids
- Acidic cleaners
- Ammonia-containing products
- Reducing agents
- Other incompatible chemicals

10.6 Hazardous decomposition products

Decomposition or inappropriate mixing may release chlorine-containing gases and other irritating or hazardous substances.



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SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Likely routes of exposure

- Skin contact
- Eye contact
- Inhalation of vapour or spray
- Accidental ingestion

11.2 Health effects

Eyes: Direct contact may cause significant irritation or injury.

Skin: Prolonged contact with concentrated product may cause irritation.

Inhalation: Vapours or gases produced through inappropriate mixing may irritate the respiratory system.

Ingestion: The product is not intended for ingestion and may cause irritation or discomfort if swallowed.

11.3 Sensitisation

No specific sensitisation data for the finished product has been provided. Fragrance ingredients may cause sensitivity in susceptible individuals.

Note: A complete toxicological assessment requires ingredient-specific toxicity data and concentrations.



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SECTION 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity

The product contains an active chlorine compound that may be harmful to aquatic organisms if released in significant quantities.

12.2 Persistence and degradability

The product contains biodegradable surfactants as specified by the product information. The environmental behaviour of the complete formulation should be confirmed through appropriate testing.

12.3 Bioaccumulative potential

Not determined for the finished product.

12.4 Mobility in soil

The product is completely water - soluble and may move with water.

12.5 Other adverse effects

Avoid uncontrolled discharge into waterways, ponds, rivers and other aquatic environments.



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SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of unused product, contaminated absorbent material and packaging according to applicable local waste-management requirements.

Where possible:

- Avoid releasing concentrated product into waterways.
- Do not mix bleach waste with other chemical waste.
- Empty packaging should be handled according to applicable local requirements.
- Do not reuse empty containers for other purposes.
- Large quantities should be disposed of through an appropriate waste-management service.



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SECTION 14: TRANSPORT INFORMATION

- The final transport classification should be confirmed based on the exact active chlorine concentration and applicable dangerous-goods transport regulations.

Transport Mode	Classification
Road	Not regulated as dangerous goods based on available information
Rail	Not regulated as dangerous goods based on available information
Sea	Not regulated as dangerous goods based on available information
Air	Not regulated as dangerous goods based on available information

The applicable transport classification should be determined from the final formulation and regulatory assessment.



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SECTION 15: REGULATORY INFORMATION

The product should be assessed according to applicable South African requirements for chemical classification, labelling, occupational health, disinfectants, cleaning products, environmental protection and transport of dangerous goods.

The final regulatory assessment should consider:

- Exact active chlorine compound
- Active chlorine concentration
- Complete formulation
- Ingredient hazard classifications
- Product intended uses
- Disinfectant efficacy claims
- Packaging requirements
- Safety labelling requirements
- Environmental requirements
- Applicable transport regulations

Important: The claim that the product "kills 99.9% of germs" should be supported by appropriate efficacy testing and should comply with applicable product and advertising requirements.



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SECTION 16: OTHER INFORMATION

Product use

ZAMA Thin-Fragranced Bleach is a free-flowing chlorine-based disinfectant and whitening product designed for general-purpose cleaning, disinfection, deodorising and whitening applications.

Directions for use

Surface Cleaning & Disinfection: Dilute 1 part product with 20 parts water. Apply using a mop, cloth or suitable sprayer. Leave for 5 minutes, then rinse.

Fabric Whitening: Dilute 1 part product with 100 parts water. Soak white cotton fabrics only. Do not use on coloured or delicate items.

Drain and Bin Deodorising: Apply undiluted as directed. Leave for 10 minutes and rinse thoroughly.

Important safety instruction

DO NOT MIX BLEACH WITH ACIDS, AMMONIA OR OTHER CLEANING PRODUCTS.

Mixing bleach with incompatible cleaning chemicals can produce hazardous gases or cause dangerous chemical reactions.

Storage

Store in a cool, dry and well-ventilated area away from heat and direct sunlight. Keep the container tightly sealed when not in use. Keep out of reach of children.

Important notice

This document is a draft Safety Data Sheet prepared from the product information supplied. It should be reviewed by a suitably qualified person before being used as an official regulatory SDS. The final SDS should include the confirmed active chlorine chemical, CAS number, exact concentration, complete formulation, supplier information, emergency contact details, verified hazard classification and final transport classification.



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