



SAFETY DATA SHEET

Thuleka Aluminium Cleaner

Product Type: Acidic Aluminium Cleaner and Brightener

Product Name: Thuleka Aluminium Cleaner

Version: 1.0

Date: 16 September 2026

SECTION 1: IDENTIFICATION OF THE PRODUCT AND SUPPLIER

Product Name: Thuleka Aluminium Cleaner

Product Type: Acidic liquid aluminium cleaner and brightener

Recommended Use: Cleaning, brightening and removal of oxidation, stains and road film from aluminium surfaces.

Intended Users: Automotive, marine, industrial and domestic users.

Suitable Applications:

- Aluminium mag wheels and rims
- Aluminium bike frames
- Trailers
- Boat jack plates and aluminium boat components
- Aluminium ladders
- Other exposed, uncoated aluminium components



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SECTION 2: HAZARD IDENTIFICATION

Product Classification

Thuleka Aluminium Cleaner is an acidic cleaning product with a reported neat pH of 1.0–3.0. The final GHS hazard classification must be determined from the complete formulation, including the identities and concentrations of the inorganic acids and other ingredients.

Potential Hazards

- May cause significant irritation or chemical burns to skin depending on formulation and exposure time.
- May cause serious eye irritation or eye damage.
- Acidic liquid may be harmful if swallowed.
- Spray, mist or vapour may irritate the respiratory tract.
- Contact with incompatible chemicals may result in hazardous reactions.
- May damage or discolour anodised, polished or painted aluminium surfaces.
- Product should not be allowed to dry on treated surfaces.

Precautionary Measures

- Wear protective gloves and suitable eye protection.
- Use only in a well-ventilated area.
- Avoid breathing spray mist.
- Avoid contact with skin and eyes.
- Do not mix with bleach, ammonia or other reactive cleaning products.
- Keep container tightly closed.
- Keep out of reach of children.
- Test on a small inconspicuous area before full application.

Signal Word: To be confirmed following final GHS classification.

Hazard Pictograms: To be confirmed following final formulation assessment.



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SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Thuleka Aluminium Cleaner is an acidic, water-based cleaning formulation.

Typical formulation components may include:

- Water
- Inorganic acids
- Surfactants
- Other formulation/stabilising ingredients, where applicable

Active Ingredients: Inorganic acids and surfactants.

Exact chemical names, concentrations and CAS numbers: To be confirmed from the final manufacturing formulation.



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SECTION 4: FIRST-AID MEASURES

Eye Contact

Immediately rinse cautiously with clean running water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek immediate medical attention, particularly if pain, redness, blurred vision or persistent irritation occurs.

Skin Contact

Immediately remove contaminated clothing where applicable. Wash the affected area thoroughly with plenty of water. Seek medical attention if irritation, pain, redness or burns develop.

Inhalation

Move the affected person to fresh air. Keep the person comfortable and monitor for respiratory discomfort. Seek medical attention if coughing, breathing difficulty or other symptoms persist.

Ingestion

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

Most Important Symptoms

Possible symptoms include burning or irritation of the eyes and skin, respiratory irritation following inhalation of mist, and gastrointestinal irritation following ingestion.



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SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing media appropriate for the surrounding fire, including:

- Water spray
- Foam
- Dry chemical
- Carbon dioxide

Specific Hazards

Thuleka Aluminium Cleaner is primarily a water-based acidic liquid and is **not expected to be flammable under normal conditions.**

Heating or decomposition may produce irritating or hazardous fumes. Contact between acids and incompatible materials may produce hazardous reactions.

Protective Equipment for Firefighters

Firefighters should wear appropriate protective clothing and respiratory protection where necessary. Use suitable chemical-resistant equipment where contact with the product is possible.



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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions

- Keep unnecessary personnel away from the spill.
- Wear suitable chemical-resistant gloves and eye/face protection.
- Avoid contact with skin and eyes.
- Avoid breathing spray, mist or vapour.
- Ensure adequate ventilation.

Environmental Precautions

Prevent large quantities from entering stormwater drains, rivers, dams or other natural waterways.

Spill Containment and Cleaning

- Stop the source of the spill where it is safe to do so.
- Prevent the product from spreading.
- Contain the spill using a suitable inert absorbent material.
- Collect the absorbed material into a compatible, appropriately labelled container.
- Do not mix spilled product with bleach, ammonia or other cleaning chemicals.
- Clean the affected area with suitable water after the bulk product has been removed, subject to local waste-disposal requirements.



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SECTION 7: HANDLING AND STORAGE

Safe Handling

- Wear protective gloves and suitable eye protection.
- Use only in a well-ventilated area.
- Avoid skin and eye contact.
- Avoid breathing spray mist.
- Do not allow product to dry on treated surfaces.
- Follow the recommended contact time of 1–3 minutes.
- Do not mix with bleach, ammonia or other reactive cleaning products.
- Wash hands thoroughly after handling.
- Test product on a small inconspicuous area before full application.

Storage Conditions

- Store in a cool, dry area.
- Keep away from direct sunlight.
- Keep container tightly closed.
- Store away from incompatible chemicals.
- Protect containers from physical damage.
- Keep out of reach of children.

Incompatible Materials

- Bleach and hypochlorite products
- Ammonia-containing products
- Strong alkalis
- Reactive metals/materials, depending on acid composition
- Other incompatible cleaning chemicals



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SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits

Specific occupational exposure limits depend on the identity and concentration of the acids present and must be confirmed from the final formulation.

Engineering Controls

Use adequate general or local ventilation, particularly when spraying or applying the product in enclosed areas.

Eye Protection

Wear chemical splash goggles or suitable safety glasses with side protection. Face protection may be appropriate when handling large quantities or where significant splashing is possible.

Hand Protection

Wear suitable chemical-resistant protective gloves..

Skin and Body Protection

Wear protective clothing where splashing or prolonged contact is possible.

Respiratory Protection

Avoid breathing spray mist. Where adequate ventilation cannot be maintained or significant mist generation occurs, appropriate respiratory protection should be selected based on the final formulation and workplace risk assessment.

Hygiene Measures

- Wash hands thoroughly after handling.
- Remove contaminated clothing promptly.
- Do not eat, drink or smoke while handling the product.
- Wash contaminated clothing before reuse where appropriate.



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Specification
Appearance	Clear to slightly cloudy liquid
Colour	To be confirmed
Odour	Mild acidic scent
pH (neat)	1.0 – 3.0
Viscosity at 25°C	800 – 1500 cP
Density at 25°C	1.05 – 1.10 g/cm ³
Solubility	Fully soluble in water
Active Ingredients	Inorganic acids and surfactants
Physical state	Liquid
Flammability	Not expected to be flammable under normal conditions
Flash point	Not determined; water-based product not expected to be highly flammable
Oxidising properties	Not expected under normal conditions; confirmation required



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SECTION 10: STABILITY AND REACTIVITY

Reactivity

The product is acidic and may react with incompatible substances.

Chemical Stability

Stable under recommended storage conditions.

Conditions to Avoid

- Excessive heat
- Direct sunlight
- Contact with incompatible chemicals
- Uncontrolled mixing with other cleaning products
- Allowing product to dry on sensitive surfaces

Incompatible Materials

- Bleach/hypochlorite products
- Ammonia-containing products
- Strong alkalis
- Reactive metals or materials, depending on the acid formulation
- Other incompatible cleaning chemicals

Hazardous Reactions

Mixing with incompatible chemicals may result in hazardous reactions and the release of irritating or hazardous gases.

Never mix this product with bleach or ammonia-containing cleaners.

Hazardous Decomposition Products

Thermal decomposition may produce irritating or hazardous fumes depending on the acid composition.



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SECTION 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

- Eye contact
- Skin contact
- Inhalation of spray mist
- Accidental ingestion

Eye Effects

Direct contact may cause significant irritation and potentially serious eye injury depending on the formulation and exposure.

Skin Effects

The acidic formulation may cause irritation or chemical burns depending on concentration and duration of contact.

Inhalation

Spray mist may irritate the nose, throat and respiratory tract.

Ingestion

Ingestion may cause irritation or burns to the mouth, throat and gastrointestinal tract.

Chronic Effects

No specific chronic toxicity information is available for the complete finished formulation. A complete toxicological assessment should be based on the individual acids, surfactants and other ingredients present in the final formulation.



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SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

The ecological effects of the finished product depend on the concentration and identity of the acids and other ingredients.

Large quantities should not be released directly into natural waterways.

Persistence and Degradability

No complete biodegradability data are available for the finished product based on the information supplied.

Bioaccumulative Potential

No specific data are available for the complete formulation.

Mobility in Soil

The product is fully water-soluble and may readily move with water.

Environmental Precaution

Prevent uncontrolled release into:

- Rivers
- Dams
- Streams
- Stormwater systems
- Soil and other natural environments



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SECTION 13: DISPOSAL CONSIDERATIONS

Product Disposal

Dispose of unused product, residues and contaminated absorbent material in accordance with applicable local, municipal and national waste-disposal requirements.

Do not discharge concentrated product directly into drains or natural waterways.

Container Disposal

Empty containers should be handled according to applicable recycling and waste-disposal requirements.

Do not reuse containers for food, beverages or other unrelated purposes.

Contaminated Packaging

Packaging containing product residues should be treated as contaminated and disposed of responsibly.



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SECTION 14: TRANSPORT INFORMATION

- The final transport classification must be confirmed from the complete formulation and applicable 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

Because the product is strongly acidic, its transport classification should not be assumed without reviewing the final formulation and applicable transport requirements.



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SECTION 15: REGULATORY INFORMATION

The finished product should be assessed against all applicable South African requirements relating to:

- Chemical classification and labelling
- Safety Data Sheets
- Occupational health and safety
- Hazardous chemical substances
- Consumer chemical products
- Environmental protection
- Waste management
- Transport of hazardous substances

The manufacturer's final formulation should be reviewed to determine the appropriate GHS classification, hazard statements, precautionary statements, pictograms and labelling requirements.



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SECTION 16: OTHER INFORMATION

Recommended Uses

Thuleka Aluminium Cleaner is intended for:

- Cleaning and brightening aluminium mag wheels and rims
- Aluminium bike frames
- Trailers
- Boat jack plates and aluminium components
- Aluminium ladders
- Automotive applications
- Marine applications
- Industrial aluminium cleaning
- Domestic aluminium cleaning

Directions for Use

- Always wear protective gloves and suitable eye protection.
- Apply directly to the aluminium surface using a sprayer, brush or sponge.
- Allow the product to remain on the surface for 1–3 minutes.
- Do not allow the product to dry on the surface.
- Agitate gently with a soft brush if necessary.
- Rinse thoroughly with clean water.
- For heavily oxidised areas, repeat the process as necessary.

Important Safety Warning

ALWAYS TEST THE PRODUCT ON A SMALL, INCONSPICUOUS AREA BEFORE FULL APPLICATION.

Do not use on anodised, polished or painted aluminium unless compatibility has been confirmed.

DO NOT MIX THULEKA ALUMINIUM CLEANER WITH BLEACH, AMMONIA OR OTHER REACTIVE CLEANING CHEMICALS.



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