Dalcon Hygiene 36 Victoria St Smithfield NSW P: (02)9604 1155 F: (02)9604 9055

Safety Data Sheet

Revision Date: 24.02.2025

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Ultra Clean

Classification of Product:

Classified as **HAZARDOUS** according to criteria of the Globally Harmonised System of Classification and Labelling of Chemicals 3rd Revised Edition.

1. IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY
    a. Product name: Ultra Clean
    b. Other means of identification: None
    c. Recommended use of the chemical
    Cleaning fabric, heavy duty stain remover and degreaser
    d. Manufacturer details:
    Dalcon Hygiene
    36 Victoria St Smithfield
    NSW 2164
    Australia
    PH: (02) 9604 1155
    FAX: (02) 9604 9055
    Email: admin@dalconhygiene.com.au
    e. Poisons information centre: 13 11 26 (Australia)

2. HAZARD(S) IDENTIFICATION
    a. Classification of the chemical:
    Acute Oral Toxicity – Category 4
    Skin Corrosion/Irritation - Category 1B
    Skin Sensitisation – Category 1
    Serious Eye Damage/Irritation - Category 1
    Corrosive to Metals - Category 1
    Specific Target Organ Toxicity (Single Exposure) - Category 3
    Acute Hazard To The Aquatic Environment - Category 2
    Long-term Hazard To The Aquatic Environment - Category 3

    b. Signal word: **DANGER**

c. Pictogram(s): corrosive, exclamation

d. **Hazard statement(s)**:

H227 Combustible liquid.
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H412 Harmful to aquatic life with long lasting effects
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H401 Toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.

e. **Precautionary Statement(s)**:

P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P103: Read label before use.

Prevention:

P261 Avoid breathing mist / vapours / spray.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P234 Keep only in original container.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273: Avoid release to the environment.
P280 Wear protective gloves / protective clothing / eye protection / face protection.
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P330 Rinse mouth.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P362 Take off contaminated clothing and wash before reuse.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 Specific treatment (see First Aid Measures on Safety Data Sheet).
P310 Immediately call a POISON CENTER or doctor/physician
P370 + P378 In case of fire: Use carbon dioxide (CO2), dry chemical, alcohol resistant foam or water spray for extinction.
P390 Absorb spillage to prevent material damag

Storage:
P405 Store locked up.

Disposal:
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Poisons Schedule (SUSMP): S6 Poison

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3. COMPOSITION AND INFORMATION ON INGREDIENTS

Components	CAS number	Proportion	Hazard Codes
Distilled Water	7732-18-5	>60%	-
Labs surfactant	27176-87-0	<10%	H302, H315, H317, H318
Sodium Metasilicate	10213-79-3	<10%	H302. H314, H335
Monoethanolamine	141-43-5	<10%	H332, H312, H302, H314, H227, H335, H401, H412
Potassium Hydroxide	1310-58-3	<3%	H302, H314, H290
Colour and perfume	-	<5%	-
Non-Hazardous components	-	10-30%	-

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4. FIRST-AID MEASURES

For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor.

Inhalation:
Remove victim from area and to fresh air. Remove contaminate clothing. Allow patient to rest until fully recovered. If symptoms are moderate-severe or patient still feels unwell, seek medical attention immediately.

Skin Contact:
If spilt on large areas of skin or hair immediately drench with running water and remove contaminated clothing. If irritation occurs or patient feels unwell, seek medical attention

immediately.

Eye Contact:
Immediately flush the eyes with running water for at least 15 minutes, holding the eyelids open. Remove clothing if contaminated and wash skin. Seek medical attention immediately.

Ingestion:
Rinse mouth with water. If swallowed, do not induce vomiting. Give a glass of water and seek medical attention immediately.

Indication of immediate medical attention and special treatment needed:
Treat symptomatically, can cause eye damage.

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5. FIRE-FIGHTING MEASURES

a. **Suitable extinguishing equipment**:
Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder).

Hazchem or Emergency Action Code: 2X

b. **Specific hazards arising from the chemical**
Product is a combustible liquid

On combustion or on thermal decomposition releases nitrogen oxides and carbon oxides.

c. **Special protective equipment and precautions for fire fighters:**
On burning may emit toxic fumes, including oxides of carbon, sulphur and nitrogen. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

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6. ACCIDENTAL RELEASE MEASURES

a. **Personal precautions, protective equipment and emergency procedures:**
Slippery when spilt, avoid accidents and clean up immediately.
Shut off all possible sources of ignition.
Clear the area of personnel.
Avoid breathing in the fumes. Wear protective eye goggles and gloves.

b. **Environmental precautions**:
Keep away from drains and surface and ground water

c. **Methods and materials for containment and cleaning up:**
Containment: Store in a bunded area.
Clean up procedures: Stop leak if safe to do so.
Wear protective eye goggles and gloves. ear protective equipment to prevent skin and eye contact and breathing in vapours. Work up wind or increase ventilation.
Use absorbent material (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal outlined in section 13.

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7. HANDLING AND STORAGE

This material is a Scheduled Poison S6 and must be stored, maintained and used in accordance with the relevant regulations.

a. **Precautions for safe handling**
Avoid skin and eye contact and breathing in vapour, mists and aerosols. Use in a well ventilated area.
Ensure an eye bath and safety shower are available and ready to use.
Keep out of reach of children.
Avoid eating, drinking or, smoking when using this chemical.
Wash hands after use.
Remove contaminated clothing and protective equipment after using chemicals and before entering eating areas.
Do not use sodium nitrite or other nitrosating agents in formulations containing this product. Suspected cancer-causing nitrosoamines could be formed.
Containers, even those that have been emptied, can contain vapours.

b. **Conditions for safe storage, including incompatibilities.**
Store in cool place and out of direct sunlight.
Store in a bunded area.
Store in a dry, well ventilated area.
Store away from foodstuffs.
Store away from incompatible materials described in Section 10.
Keep containers closed when not in use - check regularly for leaks.
Do not store in containers made of: Aluminium and its alloys. Brass. Copper. Carbon steel.

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8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

a. **Control Parameters:**
No value assigned for this specific material by safe work Australia, however for the constituent Monoethanolamine CAS No: 141-43-5 TWA (8hr) = 3ppm , STEL (15min) = 6ppm

b. **Engineering controls:**
Ensure adequate ventilation. A system of exhaust or ducting is recommended to keep employee exposures as low as possible.
Keep containers closed when not in use

c. **Individual Protection measures:**
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday
When handling this chemical, individuals should wear safety goggles, gloves and plastic overalls.
Respirator: Use an approved air-purifying or positive-pressure supplied-air respirator depending on the potential airborne concentration
Eyes: Use chemical goggles
Hands: Chemical-resistant gloves.
Full contact Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min.
Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Skin: Selection of specific items such as boots, apron, or full body-suit depending on operation.

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9. PHYSICAL AND CHEMICAL PROPERTIES
   a. Physical state: Liquid
   b. Colour: White
   c. Odour: None
   d. pH: 9-10
   e. Melting point/freezing point: 0°C
   f. Initial boiling point and boiling range: 100°C
   g. Flash point: >150°C
   h. Flammability: N/A
   i. Vapour pressure: N/A
   j. Relative density: N/A
   k. Solubility: Miscible in water
   l. Partition coefficient: n-octanol/water
   m. Decomposition temperature: N/A
   n. Viscosity: N/A

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10. STABILITY AND REACTIVITY
   a. Reactivity: Reacts with metals
   b. Chemical stability: Product is stable under normal conditions of use, storage and temperature.
   c. Possibility of Hazardous reactions: May react with metals to produce flammable hydrogen gas.

The constituent Monoethanolamine and iron form a complex molecule, trisethanolamine-iron. This material can spontaneously decompose at temperatures between 54°C-71°C. This product should not be heated above 60°C in the presence of aluminium due to excessive corrosion and potential chemical reaction releasing flammable hydrogen gas. Product may potentially react with various halogenated organic solvents, resulting in temperature and/or pressure increases
Contact with aluminum, tin and zinc liberates hydrogen gas.
Vigorous reaction with: Alkali metals, Halogens, Azides, Anhydrides

d. Conditions to avoid: Avoid contact with foodstuffs. Only mix with water. Exposure to elevated temperatures can cause product to decompose. Avoid moisture
e. Incompatible materials: Incompatible with metal, strong acids, strong bases, strong oxidising agents and strong reducing agents. Product may potentially react with various halogenated organic solvents resulting in temperature and/or pressure increases.
f. Hazardous decomposition products: Oxides of carbon. Oxides of sulfur. Nitrogen oxides. On combustion or thermal decomposition releases nitrogen oxides and carbon oxides.

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11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion:
Swallowing can result in nausea, vomiting, diarrhoea, and gastrointestinal irritation.

Skin corrosion/irritation:
Contact with skin will cause irritation. Causes severe burns. May cause skin sensitisation in sensitive individuals. Repeated or prolonged skin contact may lead to allergic contact dermatitis.

Serious eye damage/irritation:
A severe eye irritant. Causes severe burns. Contamination of eyes can result in permanent injury.

Respiratory or skin sensation:
Breathing in mists or aerosols may produce respiratory irritation**.**

Toxicity:
No value assigned for this specific material by safe work Australia, however for the constituent Monoethanolamine CAS No: 141-43-5:
Oral LD50, Rat, 1,089 mg/kg . Low toxicity if swallowed. Ingestion may cause gastrointestinal irritation or ulceration. Ingestion may cause burns of mouth and throat.
Dermal LD50, Rat, 2,504 mg/kg. Prolonged or widespread skin contact may result in absorption of harmful amounts.
Inhalation : LC50, Rat, 4 Hour, vapour, > 1.48 mg/l Estimated. No deaths occurred at this concentration.

Sensitization : Did not cause allergic skin reactions when tested in guinea pigs.
Specific Target Organ Systemic Toxicity (Single Exposure) : Material is corrosive. Material is not classified as a respiratory irritant; however, upper respiratory tract irritation or corrosivity may be expected.
Specific Target Organ Systemic Toxicity (Repeated Exposure) : In animals, effects have been reported on the following organs: Kidney. Liver.

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12. ECOLOGICAL INFORMATION

a. Ecotoxicity: Avoid contaminating waterways. Acute toxicity to fish
   For the constituent Monoethanolamine CAS No: 141-43-5: moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in the most sensitive species tested)
b. Persistence and degradability: This material is biodegradable
c. Bio-accumulative potential: No known evidence of bio-accumulation

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13. DISPOSAL CONSIDERATIONS

Refer to Waste Management Authority. Dispose of containers in accordance with local/regional/national/international regulations. Dispose of material through a licensed waste contractor. Decontamination and destruction of containers should be considered.

Do not allow waste to enter waterways.

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14. TRANSPORT INFORMATION

Contains materials classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail.

Proper Shipping Name or Technical Name: ALKYLSULPHONIC ACIDS, LIQUID
UN No: 2586
Transport Hazard Class: 8 Corrosive
Packing Group: III
Hazchem: 2X

Proper Shipping Name ETHANOLAMINE
Class: 8 Corrosive Substances
Subsidiary Risk(s) : C1 Combustible liquids – Flash point 61-150°C

EPG: 36 Toxic And/Or Corrosive Substances Combustible
UN Number: 2491
Hazchem: 2X
Pack Group: III
Special Provision: No Data Available

Proper Shipping Name POTASSIUM HYDROXIDE, SOLID
Class: 8 Corrosive Substances
Subsidiary Risk(s) : No Data Available
EPG: 37 Toxic And/Or Corrosive Substances Non-Combustible
UN Number: 1813
Hazchem: 2W
Pack Group: II
Special Provision: No Data Available

Contains materials classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; Dangerous Goods.

Proper Shipping Name or Technical Name: ALKYLSULPHONIC ACIDS, LIQUID
UN No: 2586
Transport Hazard Class: 8 Corrosive
Packing Group: III
IMDG EMS Fire: F-A
IMDG EMS Spill: S-B

Proper Shipping Name ETHANOLAMINE
Class: 8 Corrosive Substances
Subsidiary Risk(s) : No Data Available
UN Number: 2491
Hazchem: 2X
Pack Group: III
Special Provision: No Data Available
EMS: F-A,S
Marine Pollutant: No

Proper Shipping Name POTASSIUM HYDROXIDE, SOLID
Class: 8 Corrosive Substances
Subsidiary Risk(s) : No Data Available
UN Number: 1813
Hazchem: 2W
Pack Group: II
Special Provision: No Data Available
EMS: FA, SB
Marine Pollutant: No

Contains materials classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; Dangerous Goods.

Proper Shipping Name or Technical Name: ALKYLSULPHONIC ACIDS, LIQUID
UN No: 2586
Hazchem: 2X
Transport Hazard Class: 8 Corrosive
Packing Group: III

Proper Shipping Name ETHANOLAMINE
Class: 8 Corrosive Substances
UN Number: 2491
Hazchem: 2X
Pack Group: III

Proper Shipping Name POTASSIUM HYDROXIDE, SOLID
Class: 8 Corrosive Substances
Subsidiary Risk(s) : No Data Available
UN Number: 1813
Hazchem: 2W
Pack Group: II
Special Provision: No Data Available

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15. REGULATORY INFORMATION

This Material is hazardous according to Safe Work Australia; **Hazardous Substance**

Classification of the substance or mixture:

Acute Oral Toxicity – Category 4
Skin Corrosion/Irritation - Category 1B
Skin Sensitisation – Category 1
Serious Eye Damage/Irritation - Category 1
Corrosive to Metals - Category 1
Specific Target Organ Toxicity (Single Exposure) - Category 3
Acute Hazard To The Aquatic Environment - Category 2
Long-term Hazard To The Aquatic Environment - Category 3

Hazard Statement(s):

H227 Combustible liquid.
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H412 Harmful to aquatic life with long lasting effects
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H401 Toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.

Poisons Schedule (SUSMP): S6 Poison.

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16. OTHER RELEVANT INFORMATION

This Safety Data Sheet (SDS) has been prepared by Dalcon Hygiene

Reason(s) for Issue:

- Alignment to GHS requirements

This SDS summarises to the best of our knowledge at the date of issue, the chemical health and safety hazards of the material and provides general guidelines on how to safely handle the material. Dalcon Hygiene cannot anticipate or control the conditions by which the product may be used, stored and transported, therefore, each user must, prior to usage, assess and control the possible risks.

If clarification or further information is required, the user should contact Dalcon Hygiene at the contact details in section 1d.

By using this product, the user agrees that they have read and understood this SDS, and, knowing the risks associated with the product, wish to use the product.