

MATERIAL SAFETY DATA SHEET AQUEOUS AMMONIA

Section 1 – Identification of Supplier

Product name: Aqueous Ammonia.

Shipping name: Aqueous Ammonia.

Suppliers details: Chemical Initiatives (Pty) Ltd

Address: AECI Place, Building 24, The Woodlands, Woodlands Drive, Woodmead, 2196, South Africa

Telephone number

+27 11 8068700

Emergency number

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Section 2 – Hazard Identification

Precautionary statements: Irritating to skin, eyes and respiratory tract.

Section 3 – Composition / Information on Ingredients

Component	Concentration
Ammonia	10 – 35 %
Water	65 – 90 %

Section 4 – First Aid Measures

Inhalation: Remove patient from exposure, keep warm and at rest. Obtain medical attention. Apply artificial respiration if breathing has ceased or shows signs of failing.

Skin contact: Remove contaminated clothing. Wash skin with copious amounts of water. Obtain medical attention.

Eye contact: Immediately irrigate with clean water, holding the eyelids apart, for at least 20 minutes. Obtain immediate medical attention.

Ingestion: Do not induce vomiting. Wash out mouth with water and give 200 - 300 ml (half a pint) of water to drink. Obtain medical attention.

Further processional medical assistance: Symptomatic treatment and supportive therapy as indicated. Administer oxygen if necessary. Cold, wet compresses should be applied to the affected areas to relieve pain.

Section 5 – Fire Fighting Measures

LEL: 16 % (v/v).

UEL: 27 % (v/v).

Fire: Vapour is flammable but difficult to ignite.

Extinguishing media agent: In case of fire, use water spray.

Section 6 – Accidental Release Measures

Personal protection: As a minimum use gloves and eye/face protection.

Environmental precaution: For large spillages; cover with foam and transfer to container for disposal or recovery.

Methods for cleaning up: For small spillages; drench with water and wash to drain.

Section 7 – Handling and Storage

Precautions for safe handling: Avoid contact with skin/eyes. Do not breathe vapour. Avoid ingestion.

Precautions for safe storage: Keep in a cool, well ventilated place away from oxidizing gases, halogens, hypochlorite and corrosive materials. Keep away from copper, zinc, tin, cadmium and their alloys.

Section 8 - Exposure Controls and Personal Protection

Components:

TLV-TWA: 17 mg/m³

TLV-STEL: 24 mg/m³

ACGIH: 92 to 93 (for ammonia)

Where exposure levels above the Threshold Limit Values is likely; and engineering controls are either not fitted or are not totally effective, wear suitable respiratory protective equipment. Wear suitable protective clothing, gloves and eye/face protection.

Section 9 – Physical and Chemical Properties

Appearance:	Colourless liquid.
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Odour:	Characteristically pungent.
Odour threshold:	1.7 ppm
Boiling point:	18.5°C.
Density:	0.88 g/cm ³ (35 % solution).
Vapour pressure:	1368 mmHg.
Solubility:	Miscible in water.

Section 10 – Stability and Reactivity

Hazardous reaction and decomposition: Can react violently if in contact with oxidising gases, halogens, hypochlorite and corrosive materials. Keep away from copper, zinc, tin, cadmium and their alloys.

Section 11 – Toxicology

Eye contact: Irritating to eyes. The vapour is irritant but liquid is severe irritant. The effects may be delayed for several days.

Skin contact: Irritating to skin. Repeated and/or prolonged contact chemical burns.

Ingestion: Will cause corrosion of and damage to the gastrointestinal tract.

Inhalation: Irritating to respiratory system. Low atmospheric concentrations may cause irritation of the upper respiratory tract. High atmospheric concentrations may cause irritation to the entire respiratory tract and cause severe injury to the mucous membranes.

Long term exposure: This material has been in use for many years with no evidence of adverse effects.

Section 12 – Ecological Information

Users should ensure that they comply with environmental legislation.

Environmental fate and mobility: No information available.

Persistence, degradation, bio-accumulation: No information available.

Effect on effluent treatment: Toxic to aquatic organisms.

Section 13 – Disposal Considerations

Disposal should be in accordance with local, state or national legislation.

Section 14 - Transport

Hazchem code:	2P.
UN:	2672.
Proper shipping name:	Aqueous ammonia (10 - 35% ammonia).
IMDG class:	8.
IMDP packing group:	III.



Section 15 – Regulatory Information

Users should ensure that they comply with any relevant local, state or national legislation.

Section 16 – Other Information

DISCLAIMER:

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Compiled by:

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