

**MATERIAL SAFETY DATA SHEET****MSDS nr:****Afrisolve 15 EC****AA002****1. COMPANY AND PRODUCT IDENTIFICATION**

Company Information: Afran Ammonia
P/a P & B Limework
Swellendam Road
Bredasdorp
7280

Product Names: Afrisolve 15 EC

Synonym: None

Molecular Weight: 110.99

Chemical Formula: CaCl₂

2. COMPOSITION AND INFORMATION ON HAZARDS

Ingredient	Percentage	Hazardous
Calciumchloride	55 %	No

3. HAZARDS IDENTIFICATION

CAUTION: MAY CAUSE IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT;

Potential Health Effects

Inhalation:

Ingestion: Non toxic.

Skin Contact: Not expected to be health hazard from skin exposure

Eye Contact: No information found, but expected to be a mechanical irritation.

Chronic Exposure: Excessive oral doses may produce alkalosis and hypocalcaemia.

Aggravation of Pre-existing Conditions: No information found

4. FIRST AID MEASURES

Ingestion: Do NOT induce vomiting. If large amounts were swallowed, give large quantities of water. Get medical advice.

Skin Contact: Wash with soap and water. Cover irritated skin with an emollient. Get medical advice if irritation occurs.

Eye Contact: Check for and remove contact lenses. In case of contact immediately flush eyes with gentle but large stream of water for at least 15 minutes. Warm water must be used. Call a physician if irritation occurs.

5. FIRE FIGHTING MEASURES

Fire: None

6. ACCIDENTAL RELEASE MEASURES

Ventilate area of leak or spill.

Wear appropriate personal protective equipment.

Residues from spills can be swept up and containerized.

7. HANDLING AND STORAGE

Keep in a cool, dry, ventilated area.

Protect against physical damage.

Isolate from incompatible substances.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal Respirators:

For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator.

WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear impervious protective clothing, as appropriate, to prevent skin contact.

Eye Protection:

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid

Colour: Brown/Amber

Odor: Odorless.

Solubility: NA

Specific Gravity: 1.3

pH: 8 - 9

% Volatiles by volume @ 21°C (70°F): 0°

Boiling Point: NA

Melting Point: NA

Vapor Density (Air=1): No information found.

Vapor Pressure (mm Hg): No information found.

Evaporation Rate (BuAc=1): No information found.

10. STABILITY AND REACTIVITY

Stability: Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products: When heated to decomposition, emits calcium oxide fumes and liberates carbon dioxide

Hazardous Polymerization: Will not occur

Special Remarks on reactivity:

Incompatibilities: Acids, alum, ammonium salts, mercury + hydrogen, aluminum and magnesium, phosphates and sulphates

Conditions to Avoid: Air, dusting and incompatibles

11. TOXICOLOGICAL INFORMATION

Routes of Entry: Ingestion.

Toxicity to Animals: Acute oral toxicity (LD50): 1400mg/kg [Rat].

Chronic Effects on Humans: May cause damage to the following organs: kidneys.

Other Toxic Effects on Humans: Slightly hazardous in case of skin contact (irritant), of ingestion.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects:

Skin - Causes skin irritation.

Eyes - Causes eye irritation.

Ingestion - Ingestion of large amounts may cause gastrointestinal tract disturbances with nausea and possibly constipation. Expected to be a low hazard for usual industrial handling.

Chronic Potential Health Effects - Chronic ingestion may affect kidneys, and may cause hypocalcaemia with alkalosis.

12. ECOLOGICAL INFORMATION

Environmental Fate:

This material is not expected to significantly bioaccumulate.

Environmental Toxicity:

No information found.

13. DISPOSAL CONSIDERATIONS

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility.

Although not a listed as a hazardous waste, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements.

Processing, use or contamination of this product may change the waste management options.

Dispose of container and unused contents in accordance with national and local requirements.

14. TRANSPORT INFORMATION

Not regulated

15. REGULATION AND LEGISLATION

Fertilisers, Farm Feeds, Agricultural Remedies and stock remedies Act, 36 of 1947

16. DISCLAIMER

AFRAN AMMONIA provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.