

Safety data sheet - 16 sections

Anti-Freezing AEI - Component B AEI. Proprietary liquid formulation for preventive anti-icing use

Code	AF-AEI-B
Version	1.1 - confidential technical draft
Issue date	21 August 2026
Framework	Chilean DS No. 57/2019 - 16-section structure
Supplier	AEI SpA - Nueva Providencia 1363, Santiago, Chile

Scope: This SDS applies only to Component B AEI. It does not cover Component A AEI or direct mixing of both products.

Section 1: Identification of the substance or mixture and of the company

Trade name: Anti-Freezing AEI - Component B AEI.

Recommended uses: Preventive anti-icing treatment and weakening of ice adhesion on road surfaces, applied using calibrated equipment.

Uses advised against: Human or animal consumption; food, medical or agricultural applications; direct discharge to soil, sewerage or water bodies; mixing with Component A AEI or other non-validated substances.

Supplier: AEI SpA.

Address: Nueva Providencia 1363, Santiago, Chile.

Email: info@aei360.com.

Supplier telephone: PENDING COMPLETION BY AEI BEFORE COMMERCIAL ISSUE.

Emergency telephone in Chile: PENDING ASSIGNMENT/CONTRACTING BY AEI BEFORE COMMERCIAL ISSUE. In an immediate emergency, contact competent local public services.

Section 2: Hazard identification

Preliminary GHS classification: Not classified as a hazardous mixture according to the internal assessment of the declared formulation. Classification must be confirmed using specifications, certificates of analysis and impurity control for the commercial batch.

Pictograms: Not required according to the preliminary classification.

Signal word: Not applicable.

Hazard statements: No mandatory H statements apply under the preliminary classification.

Other hazards: Spilled liquid creates a slip hazard. Repeated contact may irritate or dry skin and eyes. It may accelerate corrosion of certain metals and a massive release may harm vegetation, fresh water and soils.

Operational warning: Do not mix with Component A AEI. The observed physical incompatibility may generate coagulation and equipment obstruction.

Section 3: Composition/information on ingredients

Commercial identification	Identifiers	Concentration
Component B AEI	Confidential commercial information	100% of supplied product

Confidentiality: The identity and ranges of constituents are maintained as trade secret. AEI must keep the complete master sheet and supply the information required by health authorities, poison centres and emergency teams in accordance with applicable regulations.

Condition: Addition of any foreign substance invalidates this SDS until the mixture is reassessed by AEI.

Section 4: First-aid measures

Route	Measure
Mist inhalation	Move to fresh air. Keep at rest. Seek advice if cough, irritation or breathing difficulty persists.
Skin contact	Remove wet clothing and wash with water. Apply skin care if dryness appears. Seek advice if irritation persists.
Eye contact	Rinse carefully with water for at least 15 minutes, removing contact lenses if easy to do. Seek advice if discomfort persists.
Ingestion	Rinse mouth. Do not induce vomiting. Give small amounts of water if the person is conscious. Consult a medical centre after significant ingestion or symptoms.

Main symptoms: Eye or skin irritation; nausea, vomiting or general discomfort after significant ingestion.

Protection of responders: Avoid direct contact and use gloves and eye protection.

Section 5: Fire-fighting measures

Flammability: Aqueous non-flammable and non-combustible product.

Suitable media: Use the agent appropriate for the surrounding fire.

Specific hazards: Closed containers may deform or rupture when heated. Mist and product residues may be corrosive to certain equipment.

Fire-fighter protection: Self-contained breathing apparatus and protection according to the surrounding fire. Cool exposed containers from a safe distance.

Section 6: Accidental release measures

Personal precautions: Mark and restrict the area. Avoid falls. Use impermeable gloves, anti-slip footwear and eye protection.

Environmental precautions: Prevent entry to sewers, wells, watercourses and sensitive soils. Notify the competent authority if a significant release occurs.

Containment and cleaning: Shut the source if safe. Contain with barriers or inert material, recover by pumping and transfer to a compatible container. Absorb residues. Use the minimum wash water and recover the effluent.

Section 7: Handling and storage

Safe handling: Avoid splashing and unnecessary aerosol generation. Do not eat, drink or smoke while handling. Wash hands and equipment after use.

Storage: Keep closed, identified and protected from contamination and extreme temperatures. Use HDPE or FRP. Provide secondary containment where a leak could reach drains or watercourses.

Operational incompatibilities: Component A AEI; strong acids; strong oxidizers; other non-validated formulations; metal equipment or containers susceptible to corrosion.

Section 8: Exposure controls/personal protection

Exposure limits: No specific occupational limit has been established for this mixture. Control spray mist as an otherwise unspecified particulate aerosol, according to the applicable occupational hygiene assessment.

Engineering controls: Closed system or controlled transfer, sufficient ventilation, nozzles in good condition, eyewash and emergency water in preparation areas.

Element	Recommendation
Eyes/face	Safety goggles; face shield during transfer with splash risk.
Hands	Compatible impermeable gloves, for example nitrile or PVC, inspected before use.
Skin/body	Work clothing, anti-slip footwear and high-visibility garments for road works.
Respiration	Normally not necessary with adequate ventilation. If mist is generated and technical control is insufficient, select respiratory protection through competent assessment.

Section 9: Physical and chemical properties

Property	Value or information
Physical state	Liquid.
Color	Colorless to slightly cloudy, according to batch specification.
Odor	Odorless.
pH	AEI internal specification; verify by batch.
Freezing/crystallization point	AEI internal specification; not equivalent to a guaranteed operating temperature.
Boiling point	Not determined for the product.
Flammability	Non-flammable.
Flash point	Not applicable.
Vapor pressure	Not determined.
Relative density	AEI internal specification; verify by batch.
Solubility	Dispersible in aqueous media; do not dilute on site without AEI authorization.
Viscosity	Not determined; pumpable liquid.
Explosive/oxidizing properties	Not expected for the declared composition.

Section 10: Stability and reactivity

Reactivity: No hazardous reactions are expected under normal storage and use conditions.

Stability: Stable if kept in its original container, evaporation is avoided and it is not contaminated with incompatible substances.

Hazardous reactions: Contact with incompatible substances may produce heating, irritating vapors or loss of stability. Mixing with Component A AEI may produce coagulation.

Conditions to avoid: Intense evaporation, contamination, freezing outside specification, extreme heating and prolonged contact with susceptible metals.

Incompatible materials: Strong acids; strong oxidizers; Component A AEI; non-validated formulations; metals vulnerable to corrosion.

Hazardous decomposition: Hazardous products are not expected under normal use. Under extreme conditions, apply a specific assessment of the fire or reactive material involved.

Section 11: Toxicological information

Acute toxicity: The mixture is not considered acutely toxic according to the available internal assessment. Ingestion of large amounts may cause adverse effects and requires medical evaluation.

Skin: Corrosion is not expected; prolonged or repeated contact may cause irritation or dryness.

Eyes: Splashes may cause mechanical and transient irritation.

Sensitization: Sensitizing effects are not expected for the declared components.

Mutagenicity, carcinogenicity and reproduction: Classification is not expected for the mixture based on the declared components.

Single or repeated exposure: Specific classification is not expected; avoid repeated ingestion and unnecessary occupational exposure to mist.

Aspiration: Aspiration hazard is not expected due to the physical characteristics of the product.

Section 12: Ecological information

Ecotoxicity: Preliminarily not classified as hazardous to the aquatic environment; however, elevated product concentrations may alter freshwater ecosystems, soils and vegetation.

Persistence/degradability: Not determined for the finished product; assess according to the confidential master composition.

Bioaccumulation: Relevant bioaccumulation is not expected.

Mobility: The product may move with water and reach surface or groundwater.

Other effects: Application must be optimized to reduce the total applied load, runoff and impact on infrastructure and vegetation.

Section 13: Disposal considerations

Product: Prioritize controlled recovery or reuse if it remains within specification. Do not discharge to sewers or water bodies. Manage excess product and absorbents according to local regulations and waste characterization.

Containers: Empty completely, avoid unauthorized reuse and manage through an authorized operator where applicable.

Section 14: Transport information

Field	Preliminary information
UN number	Not assigned.
Proper shipping name	Not regulated as dangerous goods for the declared composition.
Hazard class	Not applicable.
Packing group	Not applicable.
Transport environmental hazard	Not classified as a marine pollutant; avoid releases.
Precautions	Transport closed, upright, identified and with leakage containment.

Verification: Confirm carrier requirements and current regulations before each shipment, especially if the formulation is modified.

Section 15: Regulatory information

Chile: Classification and labelling preliminarily assessed under Supreme Decree No. 57/2019 of the Ministry of Health. Storage conditions must be reviewed against DS No. 43/2015 and its amendments where applicable. The document structure follows the 16 sections of Title V of DS No. 57/2019 and the practice of NCh2245:2021.

Responsibility: The manufacturer or supplier must confirm classification, complete contact and emergency data, issue the label and update this SDS before commercializing the product.

Section 16: Other information

Abbreviations: DS: Supreme Decree; FRP: fibre-reinforced plastic; HDPE: high-density polyethylene; SDS: Safety Data Sheet; GHS: Globally Harmonized System.

Version changes: Version 1.1. Commercial identification was normalized as Component B AEI and the composition was reserved as confidential information of AEI SpA.

Main sources: FHWA-RD-95-202; Chilean DS No. 57/2019; DS No. 43/2015 and its amendments; AEI confidential master sheet.

Disclaimer: The information is based on the declared formulation and information available as of the issue date. It does not replace finished-product testing, review by a responsible safety professional/chemist or regulatory approval. Addition of any component invalidates this SDS until reassessment.

Chile: DS No. 57/2019; DS No. 43/2015; and amending DS No. 60/2022.

FHWA. Manual of Practice for an Effective Anti-Icing Program, FHWA-RD-95-202.

Texas Department of Transportation. Snow and Ice Control Manual.

Missouri Department of Transportation. Operator's Guide for Anti-Icing.