

Dust Control - Safety Data Sheet

English reference version - 16-section GHS format

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Water-based formulation. Polyvinyl alcohol (PVAOH/PVOH, CAS 9002-89-5) is the only declared functional polymer.

Important regulatory notice

The classification shown is preliminary and based on the available documentary information. Before this SDS is issued as an official version, the party responsible for the mixture must verify the complete composition, raw-material SDSs, finished-product tests, classification, labelling and transport status for the supplied batch.

SECTION 1 - Identification

Product identifier	Dust Control
Internal code	AEI-DC-001
Recommended use	Industrial dust control and surface particle binding on approved unpaved roads, granular bases and working areas.
Uses advised against	Food, medical, human or animal consumption, potable water, discharge to water or use outside the approved technical scope.
Supplier	AEI SpA, Nueva Providencia 1363, Providencia, Santiago, Chile
Contact	info@aei360.com +56 9 6849 8533
Chile toxicological emergencies	CITUC +56 2 2635 3800
Chile chemical emergencies	CITUC +56 2 2247 3600
Destination emergency contact	To be inserted by the importer/employer before market or site use.

SECTION 2 - Hazard identification

GHS classification: not classified as hazardous on the basis of the information currently available for the mixture under normal intended use. Confirm this conclusion for the actual formulation and concentration of the supplied batch.

Hazard pictograms	None required on the basis of the preliminary classification
Signal word	None required
Hazard statements	None assigned on the basis of the preliminary classification
Precautions	Avoid ingestion and prolonged eye or skin contact. Use gloves and eye protection. Keep containers closed. Prevent uncontrolled release.
Other hazards	Spilled product may create a slippery surface. Spray mist may irritate the respiratory tract.

SECTION 3 - Composition / information on ingredients

Aqueous mixture. PVAOH/PVOH is the only declared functional polymer.

Component	Identification	Function / note
Water	CAS 7732-18-5	Primary carrier

Component	Identification	Function / note
Polyvinyl alcohol (PVAOH/PVOH)	CAS 9002-89-5	Only functional polymer
Non-polymeric formulation aids	Confidential where applicable	Disclose when hazardous above applicable thresholds

SECTION 4 - First-aid measures

Route	Measure
Inhalation	Move to fresh air if spray mist causes discomfort. Obtain advice if symptoms persist.
Skin	Remove contaminated clothing and wash with water and soap. Obtain advice if irritation persists.
Eyes	Rinse cautiously with water for several minutes. Remove contact lenses if easy. Obtain advice if irritation persists.
Ingestion	Rinse mouth. Do not induce vomiting. Never give anything by mouth to an unconscious person. Contact a poison centre or physician if unwell.

Expected effects: transient eye or skin irritation, respiratory discomfort from mist or gastrointestinal discomfort. Treat symptomatically.

SECTION 5 - Fire-fighting measures

The supplied product is water-based and is not expected to be flammable under normal conditions. After water loss or during a surrounding fire, thermal decomposition of PVAOH and other organic components may produce carbon oxides and irritating vapours.

- Use extinguishing media suitable for the surrounding fire
- Cool exposed containers with water spray when safe
- Use full protective equipment and self-contained breathing apparatus if smoke or decomposition products are present

SECTION 6 - Accidental release measures

- Restrict access and mark the area because the surface may be slippery
- Use gloves, eye protection, work clothing and slip-resistant footwear
- Prevent entry into drains, wells, uncontrolled soil and waterways
- Contain with sand, earth or inert absorbent and recover into compatible containers
- Manage waste and cleaning water under applicable local requirements

SECTION 7 - Handling and storage

- Use adequate ventilation and avoid unnecessary mist generation
- Keep in the original compatible container, tightly closed
- Store under cover in a dry, ventilated area
- Protect from freezing, excessive heat, direct sunlight and contamination
- Do not eat, drink or smoke during handling

SECTION 8 - Exposure controls / personal protection

Occupational exposure limits for the finished mixture have not been established in the available information.

Control	Recommendation
Engineering controls	General ventilation and controlled application; avoid aerosolisation.
Eyes	Safety glasses or chemical splash goggles during mixing, transfer and application.
Hands	Impervious gloves compatible with the task and exposure duration.
Skin	Long-sleeved work clothing and slip-resistant safety footwear.

Control	Recommendation
Respiratory	Normally not required; select protection through risk assessment if mist is generated or ventilation is insufficient.
Hygiene	Wash hands after handling. Do not eat, drink or smoke in the area.

SECTION 9 - Physical and chemical properties

Property	Available information
Physical state	Aqueous liquid
Colour / odour	Not determined for this documentary version
pH	Not determined
Density	Not determined
Viscosity / solids	Not determined
Water solubility / dispersibility	Compatible with water according to PVAOH grade and formulation
Flammability	Not expected because of the aqueous base; confirm on finished product
Freezing / boiling	Not determined

Undetermined values require formulation- and batch-specific data. Do not use assumed values for engineering, transport or compliance decisions.

SECTION 10 - Stability and reactivity

- Stable under recommended use and storage conditions
- Avoid freezing, excessive heat, contamination and open storage
- Avoid strong oxidisers and unevaluated products
- Thermal decomposition may produce carbon oxides and irritating vapours
- Hazardous polymerisation is not expected under normal conditions

SECTION 11 - Toxicological information

Complete toxicological testing of the finished mixture is not available for this review. Direct contact may cause transient eye or skin irritation; mist may cause respiratory discomfort and ingestion may cause gastrointestinal discomfort. No conclusive mixture-specific information is available for sensitisation, mutagenicity, carcinogenicity, reproductive toxicity, target-organ toxicity or aspiration hazard.

SECTION 12 - Ecological information

A complete ecotoxicological study of the finished formulation is not available. Prevent concentrated release and uncontrolled runoff. Raw-material properties do not by themselves determine the environmental classification of the mixture.

SECTION 13 - Disposal considerations

Recover and manage product, absorbents and packaging according to waste classification and local requirements. Do not discharge concentrated product or wash water to drains or waterways. Use an authorised contractor when required.

SECTION 14 - Transport information

Transport classification is not assigned in this reference version. Before dispatch, the shipper must determine the current formulation's UN number, proper shipping name, class, packing group, marine pollutant status and special precautions for the transport mode and destination.

SECTION 15 - Regulatory information

Source documents are structured under Chilean Supreme Decree No. 57/2019. Confirm classification, labelling, import, storage, occupational safety, transport, waste and environmental requirements in the destination country before supply or use.

SECTION 16 - Other information

Version 2.0 aligns the declared polymer family for Dust Control and ECO Dust Control. PVAOH/PVOH is the only functional polymer. This sheet does not replace the current SDS or the project application specification.

Structure and identity references consulted: Chilean National Congress Library, Supreme Decree No. 57/2019 (www.bcn.cl/leychile/Navegar?idNorma=1155752); CITUC (cituc.uc.cl); PubChem, Polyvinyl alcohol CAS 9002-89-5 (pubchem.ncbi.nlm.nih.gov/compound/Poly-vinyl-alcohol).

This SDS does not replace finished-product testing or review by a competent professional. Revise when formulation, raw material, classification or technical evidence changes.