

PREA-03 — Soil Stabiliser and Dust Suppressant

1. Identification of the substance and the supplier

Product	PRO-ROAD® PREA-03 — aqueous polymeric binding dispersion.
Recommended use	Dust suppression and surface stabilisation of unpaved roads, quarries, mines, stockpile yards and landfills.
Restrictions on use	Do not freeze: freezing breaks the dispersion irreversibly. Do not mix with products of opposite ionic charge.
Supplied by	PRO-ROAD® — Soluciones en Suministros, Ingeniería y Construcción S.A.S. (Colombia) · Escher Infrastructure LLC (USA) · Penrose Solutions LLC. Cra. 14B No. 106-60 Of. 403, Bogotá D.C., Colombia. www.proroadglobal.com · info@proroadglobal.com
24 h emergency telephone	PRO-ROAD® 24 h: (+57) 301 502 5015 · Colombia — national emergency line 123 · CISPROQUIM (+57) 601 288 6012 / 018000 916012 · United States — CHEMTREC 1-800-424-9300 · International — CHEMTREC +1 703 527 3887

2. Hazards identification

Signal word	WARNING
GHS classification	Eye irritation category 2B. Not classified as flammable, acutely toxic, corrosive or hazardous to the aquatic environment under normal conditions of use.
Hazard statements (H)	H320 — Causes eye irritation.
Precautionary statements (P)	P264 — Wash thoroughly after handling. · P280 — Wear protective gloves, clothing, eye and face protection. · P305+P351+P338 — IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. · P501 — Dispose of contents and container in accordance with applicable local regulations.
Pictograms	None required by GHS. Labelling with an eye irritation warning is recommended.
NFPA 704 — Health / Flammability / Reactivity	Health 1 · Flammability 0 · Reactivity 0

Low-risk product. It is not flammable, not corrosive and presents no significant acute toxicity. Possible effects are limited to mild eye irritation from splashing and to skin irritation from prolonged, repeated contact with the concentrate. Once dry, the product forms an adherent polymeric film that may be difficult to remove from skin, clothing and painted surfaces; cleaning must be carried out before drying.

3. Composition / information on ingredients

Component	CAS No.	Concentration
Aqueous polymeric dispersion	Proprietary	30 – 55 %
Water	7732-18-5	45 – 70 %
Surfactants, biocide and additives	Proprietary	< 2 %

The percentages indicated are representative ranges of the formulation. Components not listed are either not classified as hazardous or are below the concentration limits that require declaration under GHS. The precise chemical identity of the additives is proprietary information; it is disclosed to health authorities and to medical personnel who require it to respond to an emergency.

4. First-aid measures

Inhalation	Move into fresh air. No effects are expected under normal conditions of use.
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Skin contact	Wash with plenty of soap and water before the product dries. If the film has already formed, moisten and remove with hot water and soap; do not use solvents. Remove contaminated clothing.
Eye contact	Rinse with plenty of clean water for at least 15 minutes, holding the eyelids open. Remove contact lenses if easy to do so. If pain or redness persists, seek immediate medical attention.
Ingestion	Do not induce vomiting. Do not give anything by mouth to an unconscious person. Seek immediate medical attention and show this safety data sheet.

Notes for medical personnel

Symptomatic treatment. No specific antidote is known and no systemic effects are expected.

5. Fire-fighting measures

Extinguishing media	The product is not flammable. Use the agent appropriate to the surrounding material: water spray, foam, dry chemical powder or CO ₂ .
Specific hazards	After the water has evaporated, the polymeric residue is combustible and burns generating dense smoke, carbon monoxide and dioxide and, depending on the nature of the polymer, other products of incomplete combustion.
Protective equipment for fire-fighters	Standard fire-fighting kit and self-contained breathing apparatus in enclosed-space fires.

6. Accidental release measures

Contain the spill and collect it with inert absorbent material before it dries. Once the film has formed, removal requires mechanical means. Wash the residual surface with plenty of water; the affected pavement may remain slippery until cleaned. Prevent entry into sewers and water bodies, where the product may block conduits and increase biochemical oxygen demand.

7. Handling and storage

Shake the container before use. Dilute with clean water in the proportion indicated by the design. Avoid mist formation during spraying and work downwind. Wash application equipment with water immediately after use: the dry film is difficult to remove. Wash hands before eating, drinking or smoking.

Store in a controlled environment between 5 °C and 35 °C, protected from freezing and from direct sunlight, in the original closed containers. Freezing breaks the dispersion irreversibly and the product loses its functionality. Typical shelf life of 12 months from manufacture.

8. Exposure controls / personal protection

Occupational exposure limits	No specific occupational exposure limits have been established for this product or for its components at the concentrations present. As a reference for the aerosol generated during spraying, apply the generic limit for particles not otherwise classified: ACGIH TLV-TWA 10 mg/m ³ for the inhalable fraction and 3 mg/m ³ for the respirable fraction.
Engineering controls	Adequate general ventilation. In indoor applications or confined spaces, local exhaust. Eyewash station accessible at the dosing point.
Personal protective equipment	Safety glasses during transfer and spraying. Nitrile or latex gloves. Long-sleeved work clothing. In prolonged spraying, respiratory protection against aerosols (FFP2).

9. Physical and chemical properties

Property	Value
Physical state	Liquid
Colour and odour	White to milky; mild characteristic odour
pH	6 – 9

Property	Value
Density	1.00 – 1.10 g/cm ³ (20 °C)
Solubility in water	Miscible in all proportions before drying; insoluble once the film has formed
Flammability	Non-flammable
Freezing point	≈ 0 °C — freezing breaks the dispersion irreversibly

10. Stability and reactivity

Stable under the storage conditions indicated. Conditions to avoid: freezing, temperatures above 40 °C and violent mechanical agitation. Incompatible materials: products of opposite ionic charge, strong acids and bases, electrolytes at high concentration. Hazardous decomposition products on combustion of the dry residue: carbon oxides.

11. Toxicological information

Acute oral, dermal and inhalation toxicity: low; no effects have been identified at the concentrations present. Skin irritation: mild on prolonged or repeated contact with the concentrate; the principal effect is mechanical, from film formation. Eye irritation: mild to moderate from direct splashing. Sensitisation: the biocide present at below 0.1 % may have skin sensitising potential in susceptible individuals. Mutagenicity, carcinogenicity and reproductive toxicity: no effects have been identified and no components are classified in these categories.

12. Ecological information

Not classified as hazardous to the aquatic environment. Dispersion discharged into a water body breaks and forms polymeric aggregates that settle; the effect is principally physical. The product increases the biochemical oxygen demand of the receiving body. Not bioaccumulative. Once applied and dried on the treated surface, the product is inert and does not leach significantly. Do not discharge to the sewer or to the natural environment.

13. Disposal considerations

Dispose of residual product and its packaging in accordance with applicable local, regional and national regulations, through an authorised waste manager. In Colombia, Decree 4741 of 2005 and Resolution 1362 of 2007 on hazardous waste management apply; in the United States, RCRA (40 CFR parts 260-273); in the European Union, Directive 2008/98/EC. Do not discharge into the sewer system, onto soil or into water bodies. Do not reuse empty containers without prior decontamination.

14. Transport information

Property	Value
Road (ADR / DOT), sea (IMDG) and air (IATA-DGR)	Not regulated as a dangerous good.
Marine pollutant	Not classified as a marine pollutant under Annex III of MARPOL 73/78.
HS code	3824.99

It is recommended to declare in the shipping documents the requirement to keep the product above 5 °C throughout the journey, since freezing renders it unusable.

15. Regulatory information

Colombia: Decree 1496 of 2018 (adoption of GHS) and Resolution 0773 of 2021 of the Ministry of Labour. United States: OSHA Hazard Communication Standard, 29 CFR 1910.1200; for sales in California, the Proposition 65 warning applies. European Union: Regulation (EC) 1272/2008 (CLP) and Annex II of Regulation (EC) 1907/2006 (REACH). Brazil: ABNT NBR 14725. International transport: UN Recommendations (Orange Book), IMDG Code, ICAO Technical Instructions / IATA-DGR.

16. Other information

This sheet is issued as revision 01 dated August 2026 and supersedes any earlier version. It will be reviewed when the product formulation, the applicable GHS classification or the reference regulations change, and in any case every three years. Training of exposed personnel on the content of this sheet is the employer's responsibility.

ACGIH: American Conference of Governmental Industrial Hygienists · CAS: Chemical Abstracts Service · CLP: Classification, Labelling and Packaging · IARC: International Agency for Research on Cancer · IMDG: International Maritime Dangerous Goods Code · LC50: median lethal concentration · LD50: median lethal dose · NIOSH:

National Institute for Occupational Safety and Health · REL: recommended exposure limit · GHS: Globally Harmonized System · TLV: threshold limit value · TWA: time-weighted average · STEL: short-term exposure limit · PEL: permissible exposure limit.

DOCUMENT FOR INTERNAL REVIEW. Composition data, CAS numbers and concentrations must be confirmed against the actual formulation and the raw-material suppliers' safety data sheets before this sheet is distributed to customers or authorities. Items marked "to be confirmed" require validation by PRO-ROAD[®]'s HSE officer.

This sheet has been prepared in accordance with the Globally Harmonized System (GHS) of classification and labelling of chemicals and with the 16-section format of ANSI Z400.1 / ISO 11014. In Colombia, Decree 1496 of 2018 and Resolution 0773 of 2021 of the Ministry of Labour apply; in the United States, OSHA 29 CFR 1910.1200; in the European Union, Regulation (EC) 1272/2008 (CLP) and Annex II of Regulation (EC) 1907/2006 (REACH). The information is offered in good faith and does not constitute a warranty. The employer is responsible for workplace risk assessment and for training its personnel.

