

EXOLINE® PROTECTOR SG-55

Watertight and frost-resistant concrete additive



SAFETY DATA SHEET

Document ID: SDS-EXO-ASPRO-007-25KG | Prepared in accordance with Regulation (EU) 2020/878

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name	Exoline® Protector SG-55
Product code	EXO-ASPRO-007-25KG
Net weight:	5 kg
Product type	Multifunctional hydrophobic water-, acid-, alkali- and oil-resistant admixture
Form	Powder additive (one-component)
Customs tariff code	3214 90 00
EAN	5060421890159
UFI	See the product label

1.2 Relevant identified uses of the substance or mixture and uses advised against

Multifunctional concrete admixture produced by nanotechnology, which increases strength, durability, water repellency and frost resistance. Hydraulically setting, vapour-permeable, suitable for both interior and exterior use, while resisting the harmful effects of water, acid, alkali and oil.

Identified use	Multifunctional hydrophobic concrete admixture
Uses advised against	Food, pharmaceutical and body-contact products not requiring qualification.

1.3 Emergency telephone number

Health Toxicological Information Service (HU)	+36-80-201-199 (24 h, free of charge)
National Poisons Information Service (UK)	+44 344 892 0111
General emergency number	112

1.3 Details of the supplier of the safety data sheet

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SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Legal basis	Regulation (EC) No 1272/2008 (CLP)
Skin irritation	Category 2 (H315 - Causes skin irritation.)
Serious eye damage	Category 1 (H318 - Causes serious eye damage.)
Respiratory irritation (STOT SE 3)	H335 - May cause respiratory irritation.

2.2 Label elements

Hazard-determining components: Calcium hydroxide

GHS05	 (Corrosive)
GHS07	 (General hazard)

Hazard statements (H phrases)

H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

Precautionary statements (P phrases)

P102	Keep out of reach of children.
P261	Avoid breathing dust, fume, gas, mist, vapours, spray.
P262	Do not get in eyes, on skin, or on clothing.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P271	Use only outdoors or in a well-ventilated area.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTRE or a doctor.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P501	Dispose of contents/container in accordance with local regulations.

2.3 Other hazards

- Not classified as a PBT (persistent, bioaccumulative, toxic) or vPvB substance.
- Contact with strong acids may generate corrosive calcium hydroxide.
- Inhalation of dry dust may irritate the respiratory tract.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS No.	EC No.	Concentration	Pictogram	Hazard statement
Organic components	65997-16-2	266-045-5	< 20%	GHS05	H315, H318, H335
Portland cement	65997-15-1	266-043-4	< 10%	GHS05, GHS07	H315, H318, H335
Calcium hydroxide	544-17-2	208-863-7	< 70%	GHS05	H315, H318, H335

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Route of exposure	Measures
Inhalation	Move the affected person to fresh air immediately. In case of breathing difficulty, call a doctor. In case of unconsciousness, call an ambulance (112).
Skin contact	Wash with plenty of water and soap for at least 15 minutes. Remove contaminated clothing. In case of skin irritation, seek medical advice.
Eye contact	Rinse IMMEDIATELY with plenty of running water for at least 20 minutes (holding the eyelids open). Do NOT insert contact lenses. Medical attention is required IMMEDIATELY! Toxicological Service: +36-80-201-199.
Ingestion	Do NOT induce vomiting! Rinse the mouth with water. Medical attention is required. In case of unconsciousness, call an ambulance.

4.2 Most important symptoms and effects, both acute and delayed

- Eye irritation, conjunctivitis, in severe cases corneal damage (H318)
- Redness of the skin, itching, skin irritation (H315)
- Coughing, throat irritation, respiratory irritation on inhalation of dust (H335)
- In the event of long-term repeated exposure: risk of chronic respiratory disease (due to the silicon dioxide content)

4.3 Indication of any immediate medical attention and special treatment needed

In case of eye contact, examination by an ophthalmologist is required. Information for the attending physician: alkaline (pH 11.5–12.5) cement-based product

SECTION 5: FIREFIGHTING MEASURES

Flammability:	Non-flammable dry powder. Does not release flammable vapours.
Suitable extinguishing media:	CO ₂ , dry powder, sand. Water spray is acceptable
Unsuitable extinguishing media:	Water jet is to be avoided (the powder may be dispersed).
Special hazards:	In a fire, strongly corrosive calcium oxide (quicklime) may form.
Protection of firefighters:	Breathing apparatus (SCBA) and full protective clothing are required.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

- Avoid dust formation. Use suitable respiratory protection (FFP2/FFP3 mask).
- Eye protection (tight-fitting goggles) and gloves must be worn.
- Remove unauthorised persons from the contaminated area.

6.2 Environmental precautions

- Prevent the product from entering drains, watercourses or the soil.
- Work must be suspended in strong wind.

6.3 Methods and material for containment and cleaning up

- Spilled dry powder must be collected by dust-free methods (damp cloth, vacuum cleaner with HEPA filter).
- Do not sweep (dust formation). Place in a closed, labelled waste container.
- The contaminated area must be washed down with water; the water must be collected and treated as waste.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

- Use only in a well-ventilated area. Avoid dust formation.
- Eye protection, gloves and suitable respiratory protection are mandatory (see Section 8).
- Smoking, eating and drinking are prohibited in the work area.
- Wash hands and face thoroughly after work.
- Keep away from electrical equipment and open flame.

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature:	+5°C - +35°C
Humidity:	Keep dry, max. 60% relative humidity
Container:	Original, airtight sealed bag
Incompatibility:	Store separately from acids, oxidising agents and aqueous solutions.
Storage life:	In original unopened packaging: 12 months from the date of manufacture
Special note:	Store out of reach of children!

7.3 Specific end use(s)

Professional application of cement-based waterproofing, concreting and coating systems. To be used by trained professionals only.

SECTION 8: EXPOSURE CONTROLS

Engineering measures

- Provide local exhaust ventilation and general ventilation.
- Contaminated clothing must be removed immediately.
- Use of skin protection creams.

Personal protective equipment (PPE)

- Eye protection: Safety spectacles with closed side protection (EN 166); the use of chemical goggles or a face shield is recommended.
- Hand protection: Alkali-resistant protective gloves (EN 374-3), nitrile or neoprene, at least 0.11 mm thick.
- Skin protection: Suitable protective clothing must be worn (long-sleeved clothing, protective trousers).
- Respiratory protection: In case of dust exposure, a respiratory protective mask with a P2 filter (EN 143) must be used, especially where ventilation is inadequate.
- Thermal hazards: No thermal hazards are known.
- Environmental exposure controls: The substance must not be discharged into drains or watercourses.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Free-flowing powder
Colour:	Greyish white
Odour:	Odourless
Odour threshold:	Not applicable
pH (in solution, 20°C):	11.5 - 12.5 (in cement-water suspension)
Melting point / freezing point:	> 1000°C (calcium silicate phases)
Boiling point:	Not applicable (solid substance)
Flash point:	Non-flammable
Evaporation rate:	Not applicable
Flammability:	Non-flammable
Explosive limits:	Not applicable
Vapour pressure (20°C):	Not applicable
Vapour density:	Not applicable
Relative density (bulk):	~1.0 - 1.2 kg/l
Solubility (in water):	Partially soluble; sets on hydration
Partition coefficient (log Kow):	Not applicable (inorganic)
Auto-ignition temperature:	Not applicable
Decomposition temperature:	> 840°C ($\text{CaCO}_3 \rightarrow \text{CaO} + \text{CO}_2$)
Viscosity:	Not applicable (powder)
Explosive properties:	None
Oxidising properties:	CaO_2 component has a mild oxidising effect
BET surface area (CaO_2 nanopart.):	~25 m ² /g
Particle size (CaO_2):	~4 µm (D50)

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	Contact with water starts hydration; CaO_2 releases O_2 with water.
Chemical stability:	Stable when stored dry. Temperature: +5°C - +35°C.
Possibility of hazardous reactions:	Contact with acids produces calcium salts and heat.
Conditions to avoid:	Moisture, direct sunlight, high temperature, acids.
Materials to avoid:	Acids (hydrochloric, sulphuric), organic solvents, reducing agents.
Hazardous decomposition products:	In a fire: calcium oxide (CaO), possibly CO_2 . CaO_2 releases O_2 gas.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological effect	Result / Remark
Acute toxicity (oral)	LD50 (oral, rat): <5000 mg/kg. The classification criteria are not met.
Skin corrosion/irritation	Causes skin irritation (Skin Irrit. 2, H315). Test (rabbit): mild irritation.
Serious eye damage / eye irritation	Causes serious eye damage (Eye Dam. 1, H318). Test (rabbit): mild irritation.
Respiratory / skin sensitisation	Not sensitising. The classification criteria are not met.
Germ cell mutagenicity	The classification criteria are not met.
Carcinogenicity	The classification criteria are not met.
Reproductive toxicity	The classification criteria are not met.
STOT - single exposure	STOT SE 3: H335 - May cause respiratory irritation.
STOT - repeated exposure	The classification criteria are not met.
Aspiration hazard	The classification criteria are not met.

11.2 Endocrine disrupting properties (mandatory under EU 2020/878)

None of the components has been identified as an endocrine disruptor under Regulation (EU) 2017/2100 or (EU) 2018/605, and none of them appears on the SVHC list under Article 59(1) of REACH on account of endocrine disrupting properties.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

The mixture is not classified as hazardous to the environment. The pH of the product is alkaline (due to its calcium hydroxide content), but it can be neutralised with acetic acid or other weak acids.

12.2 Persistence and degradability

Degradable in the environment; its calcium hydroxide content is soluble in water and of natural mineral origin.

12.3 Bioaccumulative potential

No bioaccumulation is expected. The logPow value is not applicable to inorganic substances.

12.4 Endocrine disrupting properties (mandatory under EU 2020/878)

The product is a highly dispersed fine powder that is strongly water-repellent. It is capable of binding oily contamination present on the water surface

12.5 Results of PBT and vPvB assessment

None of the components of the mixture is classified as a PBT or vPvB substance under Annex XIII to the REACH Regulation.

12.6 Endocrine disrupting properties (mandatory under EU 2020/878)

None of the components has been identified as an endocrine disruptor with regard to either human health or the environment.

12.7 Other adverse effects

The product has a positive effect: it is able to neutralise strongly acidic pH values in water. The product does not deplete oxygen from the water.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Toxicity

Product: Chemicals must be disposed of in accordance with the EU and national legislation in force (Waste Framework Directive 2008/98/EC).

Packaging Packaging materials must be disposed of according to national legislation.

EWC waste code 17 01 07 Construction and demolition wastes (not classifiable as a compound)

Contaminated packaging Dispose of or reuse taking local regulations into account.

SECTION 14: TRANSPORT INFORMATION

Mode of transport	UN number	Proper shipping name	Class	Packing group
ADR/RID (road/rail)	Not dangerous goods	-	-	-
IMDG (sea)	Not dangerous goods	-	-	-
IATA (air)	Not dangerous goods	-	-	-

SECTION 15: REGULATORY INFORMATION

Main EU regulation (SDS format): 1907/2006/EC (REACH), Annex II, as amended by (EU) 2020/878

Classification and labelling: Regulation (EC) No 1272/2008 (CLP)

Poison centre notification (PCN): Regulation (EC) No 1272/2008, Annex VIII – UFI mandatory

Occupational exposure limit values: Directive (EU) 2017/164

Waste management: Waste Framework Directive 2008/98/EC

VOC content: Directive 2004/42/EC – not affected (solid substance)

Biocide / plant protection product: Not applicable

On the SVHC list: None of the components appears on the current SVHC list.

SECTION 16: OTHER INFORMATION

16.1 Indication of changes

Full update in accordance with Regulation (EU) 2020/878: UFI code field added (Section 1); endocrine disruptor declaration (Sections 2.3, 11.2.1, 12.6); ATE/SCL data (Section 3); expanded Section 9 (EU 2020/878); nanoform characteristics (9.2.2); OEL table (Section 8); clarification of PPE.

16.2 Indication of changes

CLP	Classification, Labelling and Packaging
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
SDS	Safety Data Sheet
UFI	Unique Formula Identifier
OEL / TWA	Occupational Exposure Limit / Time-Weighted Average
STEL	Short-Term Exposure Limit
PBT	Persistent, Bioaccumulative and Toxic
vPvB	Very Persistent, very Bioaccumulative
SVHC	Substance of Very High Concern
DNEL	Derived No-Effect Level
PNEC	Predicted No-Effect Concentration
ATE	Acute Toxicity Estimate
SCL	Specific Concentration Limit
PPE	Personal Protective Equipment
ETTSZ	Health Toxicological Information Service (Hungary)

LEGAL NOTICE AND LIABILITY

The information contained in this data sheet is based on the data available on the date of issue. Exoline Ltd. accepts no liability for damage arising from improper use of the product.

The latest version is available on the www.exoline.co.uk website.

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