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Environmental Perspective

SolliQ AB and SolliQ AF AB are committed to providing environmentally sound products. Soil Binder® is a proven effective product formulated with organic, polymer emulsified and renewable resources. Soil Binder® is an aqueous acrylic vinyl acetate polymer emulsion based binding agent used for binding existing aggregate to various surfaces making environmentally friendly and durable light and heavy roads, sidewalks, driveways, runways, erosion prone surfaces and other areas.

The use of Soil Binder® poses no harm to humans and the environment. The raw materials in Soil Binder are used in many applications in industry, consumer markets and many include human and animal contact. The toxicity of Soil binder® is negligible and it causes no harm to humans via ingestions skin contact or inhalation.

Numerous studies on aquatic, mammal and other species demonstrates a very low level of toxicity that under normal circumstances would not pose a risk. Soil Binder is considered biodegradable by OECD standards. Bioaccumulation is negligible when using or spraying freely.

TABLE 1. LC50 values for various species of fish

SPECIES	PARAMETERS	LC ₅₀
Water flea	48 hours	> 10 000 PPM mg/L
Rainbow Trout	96 hours	10 106 PPM mg/L
Mysid shrimp	96 hours	2 021 PPM mg/L
Fathead minnow	96 hours	1 276 PPM mg/L
Bluegill Sunfish	96 hours	1 000 PPM mg/L
Green alga	72 hours	170 PPM mg/L (NOEC)
Green alga	72 hours	282 PPM mg/L (ErC ₅₀)

Animal toxicity studies on blended Soil-Binder® have not been carried out because we believe the fish toxicity studies done on the blend demonstrate it is as non-toxic as the individual emulsions which go into the blend. Table 1 gives the results of our fish toxicity tests.

In summary, the LC₅₀ values show that Soil-Binder® carries extremely low toxicity, especially in view of the legal requirement that chemicals must be labelled "toxic to fish" only if their LC₅₀ is less than 1.0 ppm. The data shows that when used properly or even in extreme conditions there is little chance of negative environmental impact.

Certificate of Environmental Impact Soil Binder®



This document certifies that Soil Binder, when used as recommended for industrial use will not negatively impact human health or safety and will not negatively impact the environment. It also confirms that it conforms to the following legislative requirements for use and is registered, for use without restriction, by ingredient under the:

- European Parliament and Council Regulation (EC) No 1907/2006 (REACH).
- European Parliament and of the Council Regulation (EC) No 1272/2008, the CLP.
- Commission Regulation (EU) no 453/2010 of 20 May 2010 amending and Council Regulation (EC) No 1907/2006 concerning the registration, evaluation, authorization and restriction of chemicals.
- Work environment authority's regulations and general advice on exposure limit values (AFS 2011:18).
- Waste Regulation (2011:927).
- Swedish Chemistry Agency Regulations
- Trafikverket's Chemsoft

Sincerely,

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