

Dangers posed by natural solvents...

... and why LEINOS relies on alternative solvents

LEINOS sets priorities

LEINOS natural paints are products made from natural, mineral, and, where possible, renewable raw materials. They are suitable for a wide range of indoor and outdoor painting applications. Important criteria when selecting raw materials are high human compatibility, good environmental compatibility, and excellent technical properties. The most important criterion for LEINOS when selecting raw materials is the requirement of **“healthy living before naturalness.”**

No natural substances that pose particular health risks are accepted.

Isoparaffins – Classification

Isoparaffins are classified as hazardous to health due to the risk of aspiration, i.e., if the solvent is accidentally swallowed and enters the lungs, lung damage may occur. Outside this hazard area, isoparaffins are used in many applications in cosmetics and food cleaning and processing.

Pictogram:

GHS 08 – Serious Health hazard



Hazards posed by natural solvents

The selection criterion “natural” cannot be a compelling argument if raw materials pose hazards. LEINOS made an important decision in the area of solvents relatively early on. Based on toxicological data, LEINOS decided back in the 1980s to replace the natural solvents turpentine oil and orange oil, both of which have a high allergy potential, with the less hazardous isoparaffins.

Turpentine oil is extracted from the resin exudates of various conifers. Its main ingredients are alpha-pinene (70% and higher) and beta-pinene (up to 30%). Some grades also contain delta-3-carene (10-20%) and other monoterpenes. Turpentine oil is classified as skin-irritating and allergenic, among other things. Delta-3-carene is classified as carcinogenic, as are the peroxides that can form from turpentine oil during drying processes.

Orange oil is also classified as highly allergenic. In today’s world, where 35% of German citizens suffer from allergies and 45% of children are suspected of having an allergic predisposition, LEINOS does not offer its customers any raw materials classified as allergenic. In addition to allergy sufferers, there are now many people who suffer severely from MCS (multiple chemical sensitivity) and also a large group of customers who simply want to buy healthy products for their homes as a precaution. All these customers need products with different solvents.

Isoparaffins – Labeling

Indications of specific hazards (H statements):

- H412 Harmful to aquatic life with long lasting effects.
- H304 May be fatal if swallowed and enters airways.
- EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements (P statements):

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P262 Do not get in eyes, on skin, or on clothing.
- P301+P330+P331+P310 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

Water hazard class: WGK 1

ATTENTION: For optimal results, please observe the technical data sheets for all products used. These are available from your dealer or at www.LEINOS.de. The information is based on our current knowledge and experience. However, it does not constitute a guarantee of product properties and does not establish a contractual legal relationship.