

SOLARCLIN®

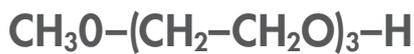
Cleaning Fluid for Solar Thermal Systems



TYFOROP Chemie GmbH

Chemical description

Methyltriglycol, triethylene glycol monomethyl ether
2-(2-(2-methoxy ethoxy)ethoxy) ethanol



CAS No: 112-35-6. EC No: 203-962-1

Properties

SOLARCLIN® is a neutral, light yellow, slightly hygroscopic, high-boiling and almost odourless liquid. It is miscible with water and commonly used organic solvents in all proportions. Because of its chemical structure it is capable to dissolve degradation products which have been formed during sustained overheating of the heat transfer fluid.

Application

In order to achieve an optimal cleaning effect it is necessary to remove the overheated fluid as completely as possible from the solar thermal system. Dilution with either solar fluid or water will lower the cleaning performance of **SOLARCLIN®**. The collectors must be covered before starting the flushing process. After the filling of the system, **SOLARCLIN®** is circulated for several hours at 50 to 60 °C. Higher temperatures should be avoided with regard to the sealing materials present in the solar thermal system. The duration of the flushing process depends on the extent of the contamination. After terminating the flushing, at first the fluid must be drained as completely as possible from the system. Residual amounts of **SOLARCLIN®** that may be still present in the installation finally can be removed by rinsing with water and subsequent use of compressed air.

Advice for safe handling

Protective measures:

The usual safety and industrial hygiene measures relating to combustible liquids and chemicals must be observed in handling **SOLARCLIN®**. The information and instructions given in the Safety Data Sheet must be strictly observed.

Protection against fire and explosion:

Ensure adequate ventilation! Do not smoke! Take precautionary measures against static discharges! Keep away ignition sources! Keep fire extinguisher in place!

Storage:

Prevent entry of air/oxygen (peroxide formation). Store containers tightly shut in a cool and dry place.

Disposal:

In accordance with regulations for special waste, **SOLARCLIN®** must be taken to an authorised special waste incineration plant. Pick up spilled or accidentally released product with e.g. sand, kieselgur, acid binder, universal binder or sawdust and dispose of according to the regulations.

Safety instructions:

Wear rubber gloves and safety goggles. Avoid contact with skin and eyes.

The TYFO product range

TYFOCOR® is a long-life, corrosion-inhibiting antifreeze based on ethylene glycol for cooling and heating, air-conditioning, heat pump, and under-soil heating systems. It can be supplied as a concentrate or a pre-mixed, ready-to-use product as desired.

TYFOCOR® GE is a long-life, corrosion-inhibiting antifreeze based on ethylene glycol specially formulated for use in geothermal heat pump systems. It can be supplied as desired in the form of a concentrate or a pre-mixed, ready-to-use product.

TYFOCOR® L is a long-life corrosion-inhibiting antifreeze based on propylene glycol for heating and air-conditioning, solar thermal, and heat pump systems. It is also used as a special food-grade brine by food and beverage manufacturers and is supplied both as a concentrate and a pre-mixed, ready-to-use product.

TYFOCOR® Leco® is a long-life corrosion-inhibiting antifreeze based on propylene glycol that covers the same applications as **TYFOCOR® L**. Practically all of the substances contained in the product are derived from 100% renewable resources.

TYFOCOR® LS® is a special, ready-to-use, almost completely vaporizable, propylene-glycol-based heat transfer fluid for use in solar systems that are subject to extreme thermal conditions.

TYFOCOR® G-LS is a special, ready-to-use, almost completely vaporizable, propylene-glycol-based heat transfer fluid for use in solar systems that are subject to extreme thermal conditions. It contains a glass protection additive that makes it suitable for use in all-glass solar collectors.

TYFOCOR® HTL is a special, ready-to-use heat transfer fluid based on non-toxic glycols for use in solar systems that are subject to extreme thermal conditions.

TYFO-SPEZIAL is a special, high-performance brine formulated for geothermal heat pumps located in areas subject to special government regulations. Due to its lack of glycols, it does not cause any underground biological oxygen depletion in the event of a leak.

TYFOXIT® 1.15–1.25 are non-toxic, high-performance, glycol-free secondary coolants based on potassium acetate with very low viscosities for chiller systems with secondary cooling. They are available as concentrates (**TYFOXIT® 1.25**) and ready-to-use mixtures ranging from -20 °C (**TYFOXIT® 1.15**) to -55 °C (**TYFOXIT® 1.25**).

TYFOXIT® F15–F50 are non-toxic, high-performance, glycol-free, potassium-formate-based secondary coolants with very low viscosities for chiller systems with secondary cooling. They are available as ready-to-use mixtures ranging from -15 °C (**TYFOXIT® F15**) to -50 °C (**TYFOXIT® F50**).

To learn more about our products, visit www.tyfo.de





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