

# Polihim Research and Production Enterprise (OOO)

Suite 13, No. 20,  
Marshal Zhukov Ave., 198302,  
Website: [www.polihimnpp.ru](http://www.polihimnpp.ru)



e-mail: [info@polihimnpp.ru](mailto:info@polihimnpp.ru)  
Tel.: (812) 715-05-84  
Tel./Fax: (812) 374-72-06

## POLITREN VEA ANTI-CORROSION LIQUID

### DESCRIPTION

**Politren VEA** is a water-soluble cooling lubricant and anticorrosive liquid consisting of surfactants, a complex of corrosion inhibitors and additives; the product does not contain harmful ethylene glycols, phenol, chlorine, or sodium nitrite. The product is free of oils and fats, it completely dissolves in water forming a transparent solution.

- Politren VEA cooling lubricant provides corrosion protection of steels, and alloys; also can be used as a lubricant anticorrosion liquid in the pipe hydraulic pressure testing processes;
- used as hydraulic fluid in hydraulic press-machines and high-pressure metal processing processes;
- it has high anti-corrosion properties, does not affect the sealing materials, has a bactericidal-fungicidal effect on the microflora of contaminants, preventing the formation of bacteria and fungal lesions.

### PHYSICAL AND CHEMICAL PROPERTIES

Parameter	Politren VEA
Appearance	homogeneous yellow to brown liquid
Strong acrid odor	None
Mass fraction of non-volatile residue, %, not less than	63
pH (5÷10% concentration)	8.5÷10.5
Effective viscosity, 20 <sup>0</sup> C, Pa-s, not less than	0.1
Corrosive activity of 3-6% water solution (steel, cast iron) as per GOST 1412-85	+
Foam formation	None
Dilution water hardness	any
Corrosion aggressivity	None
Inter-op protection period (4÷6%), hour	24
Usable life of any working solution, month	6÷12
Warranted period, month, not less than	1

### USE

#### Politren VEA

- Politren VEA is supplied as a concentrate, to be diluted with water before use, or added to water coolant;
- easily soluble in water with any hardness level;
- Politren VEA is used:
  - for corrosion protection as a 2-4% water solution;
  - for pressurized testing of pipes as a 1.5-6% water solution;
  - as hydraulic liquid (concentrated) for hydraulic press-machines.

## SAFETY REQUIREMENTS, TOXICOLOGICAL PROPERTIES AND ENVIRONMENTAL PROTECTION

Politren VEA is an anticorrosion non-flammable liquid

In accordance with GOST 12.0.007-76, Politren VEA is classified in the lowest hazard class IV (low-hazard chemical compounds). Politren VEA does not irritate the skin, mucous membranes of the eyes or upper respiratory tract; the product has no sensitization properties.

When using Politren VEA, the main component polluting the air of the working area is surfactant and triethanolamine aerosol (MPC wa is 5 mg/m<sup>3</sup>).

The premises where Politren VEA is used shall be equipped with continuously operating supply and exhaust mechanical ventilation. Within the production facilities the air shall be monitored subject to the shop-floor air monitoring schedule agreed with the local public health authorities.

The personnel involved in handling Politren VEA shall wear protective clothing and use personal protective equipment in accordance with standard industry norms.

When manufacturing and/or using Politren VEA-based emulsions, the requirements of "Sanitary rules for working with cooling lubricants and tool lubrication", No. 3935-85 dated 09.29.1985, shall be complied with.

Use clean cloth to remove Politren VEA from the hands or face; rinse the remaining product away with plenty of water or wash away with warm water.

In case of ingress of the coolant lubricant onto working parts of the machinery, the floor of the machinery area shall be cleaned with rags, and the remaining product shall be washed away with water.

Politren VEA liquid is fully soluble in water. The product's maximum permissible concentration in water bodies (MPCw) determined for triethanolamine is 0.4 mg/l; the maximum concentration supplied for bio-treatment is 5 mg/l.

For disposal of the product, its concentration should be brought to above the MPCw and the MCB.