

Product Bulletin

Product Name

ZELEC® 2-EHP

Chemical Description

Zinc, ester phosphoric acid complex mixture

CAS Registry No.

Proprietary

Applications

ZELEC 2-EHP is an effective release agent in epoxy, polyester and vinyl ester resin molding operations that require external heat, such as matched metal die, compression and pultrusion. In applications and filler systems where the ZELEC 2-EHP may not be the internal mold release agent of choice other ZELEC products could be used. These products include ZELEC 2-EH and ZELEC UN both acid forms, the low acid products such as ZELEC LA-2 and ZELEC MR-2 would also be recommended.

Benefits/Advantages

- Eliminate labor costs involved with external release agents.
- Cleanliness of molds.
- Reduced release agent cost on utility basis when compared with other more conventional internal mold release agents.
- Protects ferrous metal molds from corrosion during storage.
- Reduced danger of loss or damage to expensive molds or parts due to improper application of external parting agents.
- Improves surface appearance of molded parts.
- Produces exceptionally smooth surfaces on molded products made from low shrink, unsaturated, thermosetting polyester resins.
- No adverse affects on the rate and cure of composite resins.

End Product Uses

- Internal release agents for molding of composite resins.
- Release agent for externally heat cured molding operations.
- Internal mold release agent for pultrusion, SMC and BMC molding operations of fiberglass reinforced composites.

Typical Properties

Appearance.....	Clear to slightly yellow liquid
pH, 1.0% in 50/50 IPA/H ₂ O solution.....	4 - 6
Actives, %	100
Pour Point, °C (°F)	< -15 (5)
Freeze Point, °C (°F).....	< -20 (-5)
Color, Gardner	2 max
Density, g/m (lbs/U.S. gal).	1.010 (8.40)
Viscosity, cps at 40°C	74.40
Flash Point, PMCC, °C (°F)	>94 (>201)
RVOC, U.S. EPA, % (solvent).....	<0.1

Storage & Handling

Special safety precautions (i.e. impervious gloves and safety goggles) should be employed when handling ZELEC 2-EHP. ZELEC 2-EHP is moderately irritating, contact with eyes and skin should be minimized. Avoid contact with eyes and prolonged contact with skin. Wash thoroughly after handling material. ZELEC 2-EHP should be stored in a cool, dry place in closed containers.

ZELEC 2-EHP is available in bulk and 55 gallon drums (net weight 204kg/ 450 lbs).

Clearances

All components of ZELEC 2-EHP are listed in the following countries; United States (TSCA), Europe (EINECS), Korea (ECL) and Philippines (PICCS).

ZELEC® is a registered trademark of Stepan Company.



Additional
Safety
Information

A Material Safety Data Sheet is available upon request.

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