EcoSol®
Water soluble packaging solution

PRODUCT DESCRIPTION
EcoSol is a water soluble, biodegradable, polyvinyl-alcohol (PVOH) film ideally suited for many packaging applications. Water soluble PVOH bags, sachets, or pouches created from this film provide a convenient, safe, and economical delivery system for a wide range of products; including detergents and cleaners, degreasers, concrete additives, pigments, biocides, water-treatment products, agricultural products, and others.

EcoSol film has excellent organic solvent resistance, which allows EcoSol pouches and bags to be used not only for dry powders, but also for liquid products.

EcoSol offers very good mechanical properties: tensile strength, tear strength, puncture resistance. These properties allow EcoSol to be used in a wide variety of rigorous applications.

EcoSol expands Cortec’s line of biodegradable materials: after a few minutes of immersion at the specified temperature, EcoSol dissolves in water leaving a harmless, non-toxic, aqueous solution of polyvinyl alcohol. Once the liquid solution of PVOH comes into contact with common microorganisms, such as those found in water-treatment plants, conversion to carbon dioxide and water takes place within about 30 days.

ADVANTAGES
• Improves accuracy of dosing
• Wide range of uses
• Biodegradable
• Resistant to organic solvents
• Heat-sealable
• Can be printed with standard inks
• Eliminates direct handling of powders and liquids

TYPICAL USES
EcoSol can be used for packaging:
• Detergents and cleaners
• Degreasers
• Concrete additives
• Pigments
• Water-treatment products
• Biocides
• Agricultural products
• Bathing products
• Cosmetic industry (disposable cases)
• Laundry bags for hospitals
APPLICATION
Remove the outer barrier bag and place the EcoSol bag and its contents into water. The time required for dissolution varies, depending on thickness of EcoSol and the temperature of water.

For example, EcoSol 1.5 mil (37.5 microns) thickness at 68°F (20°C) begins to dissolve within 30 seconds and is fully dissolved in 5 minutes.

PHYSICAL PROPERTIES
Appearance  Clear transparent film
Chemically Resistant to:
- Mineral, vegetable, animal oils
- Aliphatic hydrocarbons
- Ethers, Esters, Ketones

AVAILABILITY
Available in sheeting, tubing, and bags from 4” to 19”. Contact Cortec Corporation customer service for available sizes.

PACKAGING and STORAGE
EcoSol is packaged in barrier film. Keep in dry storage area at 20-22°C (68-72°F). Shelf life of the product is 2 years, if barrier film is kept intact.

FOR INDUSTRIAL USE ONLY
KEEP OUT OF REACH OF CHILDREN
KEEP CONTAINER TIGHTLY CLOSED
NOT FOR INTERNAL CONSUMPTION
CONSULT SAFETY DATA SHEET FOR MORE INFORMATION

MECHANICAL PROPERTIES

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<thead>
<tr>
<th>Property</th>
<th>Test Method</th>
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<th>EcoSol</th>
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*Typical properties represent average laboratory values and are not intended as specifications but as guides only.

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