

Eastman solvents for coatings/inks

Features and benefits

| | Comments | Key performance features | Key benefits |
|----------------------------|--|------------------------------------|--|
| Ketones | | | |
| Eastman MAK | <ul style="list-style-type: none"> • Non-HAP • Possible xylene replacement • Readily biodegradable | • Excellent solvent activity | • Dissolves a wide range of polymers and yields solutions with low viscosities |
| | | • Low density | • Combined with high solvent activity, helps meet VOC guidelines |
| | | • Slow evaporation rate | • Good flow and leveling of air-dry and baked coatings |
| | | • Low surface tension | • Improves atomization, wetting, flow, and leveling |
| | | • Urethane grade | • Suitable for use with moisture-sensitive polymers |
| • Flash point above 100°F | • Safety and possible labeling | | |
| Eastman MIAK | <ul style="list-style-type: none"> • Non-HAP • Readily biodegradable • Possible xylene replacement | • Excellent solvent activity | • Dissolves a wide range of polymers and yields solutions with low viscosities |
| | | • Low density | • Combined with high solvent activity, helps meet VOC guidelines |
| | | • Slow evaporation rate | • Good flow and leveling of air-dry and baked coatings |
| | | • Low surface tension | • Improves atomization, wetting, flow, and leveling |
| | | • Urethane grade | • Suitable for use with moisture-sensitive polymers |
| Eastman MPK | <ul style="list-style-type: none"> • Non-HAP (can contain up to 10% MIBK) • Possible toluene, MEK, MIBK replacement • Readily biodegradable | • Excellent solvent activity | • Dissolves a wide range of polymers and yields solutions with low viscosities |
| | | • Low density | • Combined with high solvent activity, helps meet VOC guidelines |
| | | • Medium evaporation rate | • Provides good balance of application and drying characteristics, particularly for air-dry, high-solids alkyd enamels |
| | | • Urethane grade | • Suitable for use with moisture-sensitive polymers |
| | | • Ultrahigh-purity grade available | • Meets Boeing specifications |
| Eastman C-11 ketone | <ul style="list-style-type: none"> • Non-HAP • Predicted to be readily biodegradable | • Very slow evaporation rate | • Good flow and leveling in high-bake and coil-applied coatings |
| | | • Moderate solvent activity | • Dissolves many thermoplastic polymers and low-molecular-weight oligomers |
| | | • Low density | • Beneficial in low-VOC coatings |
| | | • High flash point | • Reduces fire hazard |
| | | • Low water | • Low susceptibility to moisture pickup |
| Eastman MIPK | <ul style="list-style-type: none"> • Non-HAP • Readily biodegradable | • Excellent solvent activity | • Dissolves a wide range of polymers and yields solutions with low viscosities |
| | | • Low density | • Combined with high solvent activity, helps meet VOC guidelines |
| | | • Medium evaporation rate | • Provides good balance of application and drying characteristics |
| Eastman DIBK | <ul style="list-style-type: none"> • Non-HAP • Readily biodegradable | • Good solvent activity | • Dissolves a wide range of polymers |
| | | • Low density | • Helps meet VOC guidelines |
| | | • Low surface tension | • Enhances substrate wetting while providing flow and leveling |
| | | • High blush resistance | • Successful application of coatings under high humidity conditions |
| | | • Low water solubility | • Low susceptibility to moisture pickup |
| | | • Slow evaporation rate | • Good flow and leveling in high-bake coatings |

| | Comments | Key performance features | Key benefits |
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| Esters | | | |
| Eastman methyl acetate, high purity | <ul style="list-style-type: none"> • Non-HAP • VOC exempt • Readily biodegradable • Limited water solubility | • Excellent solvent activity | • Dissolves a wide range of polymers and yields solutions with low viscosities |
| | | • Low MIR value | • Helps formulators of aerosol coatings meet MIR guidelines |
| | | • Higher electrical resistance, less hydrophilic, higher flash point than acetone | • Can replace acetone with no sacrifice in VOC content |
| | | • Low odor | • Suitable for odor-sensitive applications |
| | | • Urethane grade | • Suitable for use with moisture-sensitive polymers |
| Eastman IBIB | <ul style="list-style-type: none"> • Non-HAP • Possible xylene replacement | • Moderate solvent activity | • Improves resistance to crazing of plastic substrates |
| | | • Low MIR value | • Helps formulators of aerosol coatings meet MIR guidelines |
| | | • Slow evaporation rate | • Good flow and leveling of air-dry and baked coatings |
| | | • Low density | • Helps reduce VOCs |
| | | • High blush resistance | • Successful application of coatings under high humidity conditions |
| | | • Low surface tension | • Improves atomization, wetting, flow, and leveling |
| | | • Urethane grade | • Suitable for use with moisture-sensitive polymers |
| | | • Low water solubility | • Minimizes water pickup during storage |
| | | • High electrical resistance | • Electrostatically applied coatings with good transfer efficiency |
| | | • Low-cost ester solvent | • Lower formulation cost |
| Eastman <i>n</i>-butyl propionate | <ul style="list-style-type: none"> • Non-HAP • Possible xylene replacement • Readily biodegradable | • Good solvent activity | • Dissolves a wide range of polymers |
| | | • Slow evaporation rate | • Good flow and leveling in air-dry and baked coatings |
| | | • Mild odor | • Useful in odor-sensitive applications |
| | | • Low surface tension | • Improves atomization, wetting, flow, and leveling |
| | | • Low water solubility | • Minimizes water pickup during storage |
| | | • Urethane grade | • Suitable for use with moisture-sensitive polymers |
| | | • High electrical resistance | • Helpful when formulating electrostatically applied coatings with good transfer efficiency |
| Eastman 2-ethylhexyl acetate | <ul style="list-style-type: none"> • Non-HAP | • Slow evaporation rate | • Good flow and leveling in air-dry and baked coatings |
| | | • Low MIR value | • Helps formulators of aerosol coatings meet MIR guidelines |
| | | • Low surface tension | • Improves atomization, wetting, flow, and leveling |
| | | • Low water solubility | • Minimizes water pickup during storage |
| | | • Urethane grade | • Suitable for use with moisture-sensitive polymers |
| Eastman ethylene glycol diacetate | <ul style="list-style-type: none"> • Non-HAP • Predicted to be readily biodegradable | • High electrical resistance | • Electrostatically applied coatings with good transfer efficiency |
| | | • Slow evaporation rate | • Good flow and leveling in air-dry and baked coatings |
| | | • Low MIR value | • Helps formulators of aerosol coatings meet MIR guidelines |
| | | • High blush resistance | • Successful application of coatings under high humidity conditions |
| | | Eastman <i>n</i>-propyl propionate | <ul style="list-style-type: none"> • Non-HAP • Predicted to be readily biodegradable • Possible toluene replacement |
| • Urethane grade | • Suitable for use with moisture-sensitive polymers | | |
| • Low MIR value | • Helps formulators of aerosol coatings meet MIR guidelines | | |
| • Mild odor | • Suitable for odor-sensitive applications | | |
| • High electrical resistance | • Electrostatically applied coatings with good transfer efficiency | | |
| • Low surface tension | • Enhances substrate wetting | | |
| • Medium evaporation rate | • Suitable for air-dry and baked coatings | | |
| Ether esters | | | |
| Eastman EEP | <ul style="list-style-type: none"> • Non-HAP • Readily biodegradable | • Excellent solvent activity | • Broad resin solubility and low solution viscosity |
| | | • Slow evaporation rate | • Good flow and leveling and high DOI |
| | | • Linear structure | • Faster solvent release |
| | | • High boiling point | • Low-molecular-weight acrylic resins with good polydispersity |
| | | • Low water solubility | • Minimizes water pickup during storage |
| | | • High autoignition temperature | • Satisfactory for coil coatings |
| | | • Low surface tension | • Improves atomization, wetting, flow, and leveling |
| | | • High electrical resistance | • Electrostatically applied coatings with good transfer efficiency |
| | | • High blush resistance | • Allows application of coatings under high humidity conditions |
| | | • Urethane grade | • Suitable for use with moisture-sensitive polymers |

| | Comments | Key performance features | Key benefits |
|---------------------------------------|---|---|---|
| Glycol ethers | | | |
| Eastman EP solvent | <ul style="list-style-type: none"> • Predicted to be readily biodegradable | <ul style="list-style-type: none"> • Slow evaporation rate • Low odor • Linear structure • High blush resistance • Good coupling efficiency • Solvent activity/polar balance | <ul style="list-style-type: none"> • Good flow and leveling and high DOI • Suitable for odor-sensitive applications • Faster solvent release • Allows application of coatings under high humidity conditions • Improved solution homogeneity • Improves resistance to crazing of plastic substrates |
| Eastman DP solvent | <ul style="list-style-type: none"> • LVP-VOC • Predicted to be readily biodegradable | <ul style="list-style-type: none"> • Slow evaporation rate • Low odor • Linear structure • High blush resistance • Good coupling efficiency • Solvent activity/polar balance | <ul style="list-style-type: none"> • Good flow and leveling and high DOI • Suitable for odor-sensitive applications • Faster solvent release • Allows application of coatings under high humidity conditions • Improved solution homogeneity • Improves resistance to crazing of plastic substrates |
| Eastman DE solvent | <ul style="list-style-type: none"> • LVP-VOC • Readily biodegradable | <ul style="list-style-type: none"> • Slow evaporation rate • Low odor • Linear structure • Good coupling efficiency • Solvent activity/polar balance | <ul style="list-style-type: none"> • Good flow and leveling and high DOI • Suitable for odor-sensitive applications • Faster solvent release • Improved solution homogeneity • Improves resistance to crazing of plastic substrates |
| Eastman EEH solvent | <ul style="list-style-type: none"> • Non-HAP • LVP-VOC • Readily biodegradable | <ul style="list-style-type: none"> • High coalescing efficiency • Low water solubility • Good hydrolytic stability • Low surface tension • Slow evaporation rate | <ul style="list-style-type: none"> • Low coalescing aid level required to obtain good film integrity, proper color formation, good touch-up properties, and good scrub resistance • Minimizes wicking of coalescing aid into porous substrates in latex coatings • Chemically stable in low- to high-pH coatings • Improves wetting, flow, and leveling • In electrodeposition primers/coatings, reduces volatilization from dip tanks and provides good flow and leveling of the coating in the baking oven |
| Glycol ether esters | | | |
| Eastman EB acetate | <ul style="list-style-type: none"> • Readily biodegradable | <ul style="list-style-type: none"> • Slow evaporation rate • High solvent activity • High blush resistance • Urethane grade • High boiling point • High electrical resistance | <ul style="list-style-type: none"> • Good flow and leveling and high DOI • Broad resin solubility • Allows application of coatings under high humidity conditions • Suitable for use with moisture-sensitive polymers • Suitable for coil coatings • Electrostatically applied coatings with good transfer efficiency |
| Eastman DB acetate | <ul style="list-style-type: none"> • LVP-VOC • Readily biodegradable | <ul style="list-style-type: none"> • Slow evaporation rate • High solvent activity • High blush resistance • High boiling point • High electrical resistance | <ul style="list-style-type: none"> • Good flow and leveling and high DOI • Broad resin solubility • Allows application of coatings under high humidity conditions • Suitable for coil coatings • Electrostatically applied coatings with good transfer efficiency |
| Eastman DE acetate | <ul style="list-style-type: none"> • LVP-VOC • Predicted to be readily biodegradable | <ul style="list-style-type: none"> • Slow evaporation rate • High solvent activity • High blush resistance • High boiling point • High electrical resistance • Urethane grade | <ul style="list-style-type: none"> • Good flow and leveling and high DOI • Broad resin solubility • Allows application of coatings under high humidity conditions • Suitable for coil coatings • Electrostatically applied coatings with good transfer energy • Suitable for use with moisture-sensitive polymers |
| Ester alcohol | | | |
| Eastman Texanol™ ester alcohol | <ul style="list-style-type: none"> • Non-HAP • Readily biodegradable • LVP-VOC • Not classified as a VOC per EU Solvent Emissions Directive | <ul style="list-style-type: none"> • Good solvent activity • Very high flash point • Slow evaporation rate | <ul style="list-style-type: none"> • Dissolves a wide range of polymers and resins • Low flammability rating • Flow-out solvent in screen inks and high-bake enamels; sweetener solvent in lithographic inks |



Eastman Corporate Headquarters
P.O. Box 431
Kingsport, TN 37662-5280 U.S.A.

U.S.A. and Canada, 800-EASTMAN (800-327-8626)
Other Locations, +(1) 423-229-2000

www.eastman.com/locations

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