EC ADDITIVE, BIOCIDE SOLUTION, BRONOPOL AND OCTYLISOTHIAZOLINONE MIXTURE **WSS-M64J42-A1**

EC ADDITIVE, BIOCIDE SOLUTION, BRONOPOL, CHLOROMETHYLISOTHIAZOL AND METHYLISOTHIAZOL MIXTURE **WSS-M64J42-A2**

EC ADDITIVE, BIOCIDE SOLUTION, CHLOROMETHYLISOTHIAZOL AND METHYLISOTHIAZOL MIXTURE **WSS-M64J42-A3**

1. SCOPE

The material*s* defined by this specification are an aqueous solution of biodegradable biocides.

2. APPLICATION

This specification was released originally for materials to control the level of biological infestation and growth in cathodic electrocoat primers.

2.1 LIMITATIONS

The materials shall only be used, as specified by the supplier.

3. REQUIREMENTS

3.1 APPROVED SOURCES

This specification requires the use of approved sources. Only the sources identified on the Ford Approved Source List (ASL) can be used when this specification is listed on the drawing, CAD file, or other documents. The list of approved sources is located within Ford at www.mats.ford.com or available externally through a Ford Materials Engineer.

3.2 COMPOSITION

Aqueous solution of biocides, compatible with electrocoat process system.

3.2.1 Active Substances

WSS-M64J42-A1: Mixture of bronopol and octylisothiazolinone.
WSS-M64J42-A2: Mixture of bronopol, chloromethylisothiazol and methylisothiazol.
WSS-M64J42-A3: Mixture of chloromethylisothiazol and methylisothiazol.

3.3 PHYSICAL PROPERTIES

3.3.1 Color — Colorless –Light Yellow

Date	Action	Revisions	Rev. 0
2017 01 27	Released	A. Reilly, A. Langwald, FOE	

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3.3.2 Density
(ASTM D1475)

WSS-M64J42-A1:	Mixture of bronopol and octylisothiazolinone.	1.161 -1.173 g/ml
WSS-M64J42-A2:	Mixture of bronopol, chloromethylisothiazol and methylisothiazol.	1.072 -1.092 g/ml
WSS-M64J42-A3:	Mixture of chloromethylisothiazol and methylisothiazol.	1.025 -1.260 g/ml

3.3.3 Refractive Index
(ASTM D1218)

WSS-M64J42-A1:	Mixture of bronopol and octylisothiazolinone.	1.455 -1.467
WSS-M64J42-A2:	Mixture of bronopol, chloromethylisothiazol and methylisothiazol.	1.345 -1.357
WSS-M64J42-A3:	Mixture of chloromethylisothiazol and methylisothiazol.	1.267 -1.549

3.3.4 Flash Point, °C
(ISO 2719)

WSS-M64J42-A1:	Mixture of bronopol and octylisothiazolinone.	As per Initial Sample
WSS-M64J42-A2:	Mixture of bronopol, chloromethylisothiazol and methylisothiazol.	As per Initial Sample
WSS-M64J42-A3:	Mixture of chloromethylisothiazol and methylisothiazol.	As per Initial Sample

3.3.5 Volatile Organic Content, range %
(ASTM D3960)

WSS-M64J42-A1:	Mixture of bronopol and octylisothiazolinone.	As per Initial Sample
WSS-M64J42-A2:	Mixture of bronopol, chloromethylisothiazol and methylisothiazol.	As per Initial Sample
WSS-M64J42-A3:	Mixture of chloromethylisothiazol and methylisothiazol.	As per Initial Sample

3.5 QUALITY

When these additives are used with electrocoat primer, the resulting bath material must meet all requirements of the affected material specification.

4. GENERAL INFORMATION

The information given below is provided for clarification and assistance in meeting the requirements of this specification. Contact gmfs@ford.com for questions concerning Engineering Material Specifications.

4.1 APPROVAL OF MATERIALS

Suppliers desiring approval of their materials shall first obtain an expression of interest from Purchasing, Design or Product Development, and Materials Engineering. The supplier shall submit a completed copy of their laboratory test reports, signed by a qualified and authorized representative of the test facility, demonstrating full compliance with all the requirements of the Material Specification. Tested material samples must be available for review upon request and kept for a minimum of one year. Upon request, the supplier will review the associated quality control documents (Process Failure Mode and Effects Analysis, Control Plans, Certification testing) with Ford.

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