

Section 1 Chemical Product and Company Identification

1.1 Product identifiers

Product name: Freeman 690 Clear Epoxy Laminating System, Part A (Resin)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Epoxy constituent

1.3 Details of the supplier of the safety data sheet

Freeman Manufacturing & Supply Company

1101 Moore Road, Avon, OH 44011

Telephone (440) 934-1902

Email contactus@freemansupply.com

24 Hour Emergency Telephone Number

CHEMTREC: (800) 424-9300

Section 2 Hazards Identification

2.1 GHS Classification in accordance with 29 CFR 1910.1200 (OSHA HCS)

Eye Irritation, Category 2A

Skin Irritation, Category 2

Skin Sensitization, Category 1

Specific Target Organ Toxicity (Single Exposure) (Respiratory Tract), Category 3

Acute Toxicity, Oral, Category 4

2.2 GHS Label elements, including precautionary statements



Signal Word: Warning

Hazard Statements

Causes serious eye irritation.

Causes skin irritation.

May cause an allergic skin reaction.

Harmful if swallowed.

May cause respiratory irritation.

Precautionary Statements

Prevention: Do not eat, drink or smoke when using this product.

Wash hands and face thoroughly after handling.

Avoid breathing dust, fume, gas, mist, vapors, or spray.

Use only outdoors or in a well-ventilated area.

Keep container tightly closed when not in use.

Wear protective gloves/eye protection/face protection/clothing.

Do not allow contaminated work clothing to leave the workplace.

Response: If swallowed: Rinse mouth. Call poison center or doctor if you feel unwell.

If on skin: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

If in eyes: Rinse continuously with water for at least 15 minutes.

Remove contact lenses, if present and easy to do.

If eye irritation persists: Get medical advice/attention.

If inhaled: Remove person to fresh air and get medical attention if ill or concerned.

Freeman 690 Resin

Section 2 Hazards Identification continued

Storage: Store in a well-ventilated place. Keep cool.

Disposal: Dispose of contents and container to an appropriate waste site in accordance with local and national regulations.

Section 3 Composition/Information on Ingredients

3.1 Mixture

Ingredient Name	CAS Number	Composition %
Epoxy Resin	25068-38-6	89-90
Diglycidal Ether	17557-23-2	0-10
Polyglycol	41638-13-5	0-10

There are no additional ingredients present which within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Section 4 First Aid Measures

4.1 Description of first aid measures

If inhaled: Move person into fresh air. If you feel unwell, get medical attention.

In case of skin contact: Immediately wash off with soap and plenty of water.

Remove contaminated clothing and wash before reuse. Get medical attention if irritation/rash occur.

In case of eye contact: Flush eyes with water for at least 15 minutes. Remove contact lenses if easy to do and continue rinsing. Get medical attention if irritation develops.

If swallowed: Rinse mouth. Do not induce vomiting unless directed to do so by medical personnel.

Get medical help if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11

4.3 Indication of any immediate medical attention and special treatment needed

Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

Section 5 Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media: Use water for or fine spray, alcohol-resistant foam, dry chemical, or carbon dioxide. Foam or alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams or proteins may function but will be less effective.

Unsuitable extinguishing media: Direct heavy water stream may spread fire.

5.2 Special hazards arising from the substance or mixture

In a fire or if heated, a pressure increase will occur and the container may burst.

Thermal decomposition products may include carbon monoxide, carbon dioxide, and halogenated compounds.

5.3 Advice for firefighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Wear appropriate protective equipment and self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available.

Freeman 690 Resin

Section 6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2 Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

6.3 Methods and materials for containment and cleaning up

Move containers from spill area. Absorb with an inert dry material until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Place in an appropriate waste disposal container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/ international regulations. For larger spills, dispose of via a licensed waste disposal contractor. Remove residual with soap and hot water. Solvents are not recommended for clean-up unless the recommended exposure guidelines and safe handling practices for the specific solvent are followed.

Section 7 Handling and Storage

7.1 Precautions for safe handling

For industrial/occupational use only. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (e.g. Chlorine, chromic acid etc.)

7.2 Conditions for safe storage, including any incompatibilities

For safe storage, store at or below 72°F (22°C). Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Store locked up.

Section 8 Exposure Controls/Personal Protection

8.1 Control parameters

Components with workplace control parameters

None

8.2 Exposure controls

Appropriate engineering controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mists and/or vapors below the recommended exposure limits. If ventilation is not adequate, use respiratory protection equipment.

8.3 Personal protective equipment

Eye/face protection

Use safety glasses equipped with side shields. Use chemical goggles if there is a risk of splashing.

8.4 Skin protection

Hand Protection

The glove material must be impermeable and resistant to the product/the substance/the preparation. Due to missing tests no recommendation to the glove material can be given. Contaminated gloves should be replaced.

Body Protection

Prevent skin contact when handling material.

Freeman 690 Resin

Section 8 Exposure Controls/Personal Protection continued

8.5 Respiratory Protection

The need for respiratory protection is not anticipated under normal use conditions and with adequate ventilation. If elevated airborne concentrations above applicable workplace exposure levels are anticipated, use a NIOSH-approved organic vapor respirator equipped with a dust/mist prefilter.

8.6 Safety Stations

Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

8.7 General Hygienic Practices

Avoid breathing vapor or mist. Avoid contamination of food, beverages, or smoking materials. Wash thoroughly after handling, and before eating, drinking or smoking. Remove contaminated clothing promptly and clean thoroughly before reuse.

Section 9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance	Clear liquid
Odor	Mild
Odor Threshold	No data available
pH	No data available
Melting Point	No data available
Boiling Point	>425°F
Flash Point	>300°F
Evaporation Rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability	No data available
Vapor Pressure at 72 °F	0.03 mm Hg
Vapor Density (air = 1)	No data available
Specific Gravity	1.14 ± 0.05
Relative Density at 72 °F	9.47 lb./gal.
Water Solubility	Slight
Coefficient: n-octanol/ water	No data available
Auto-ignition temperature	No data available
Viscosity	No data available
% Solids	100%
% Volatiles	0%
VOC	0 g/L

Section 10 Stability and Reactivity

10.1 Reactivity	In normal storage hazardous reaction will not occur, reacts with amines.
10.2 Chemical stability	Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions should not occur.
10.4 Conditions to avoid	Avoid mixing resin (Part A) and curing agent (Part B) unless you plan to use immediately. Failure to observe this precaution may result in excessive heat build-up causing exotherm.
10.5 Incompatible materials	Keep away from strong oxidizing agents. Avoid contact with acids, bases, or unintended contact with amines.
10.6 Hazardous decomposition products	Thermal oxidative decomposition can produce carbon monoxide, carbon dioxide, and undetermined organic materials.

Freeman 690 Resin

Section 11 Toxicological Information

11.1 Information on toxicological effects

Inhalation	May cause respiratory tract irritation. Adverse symptoms may include respiratory tract irritation/coughing.
Skin contact	This product may cause irritation to the skin. May cause an allergic skin reaction.
Eye contact	Adverse symptoms may include irritation, redness or rash This product may cause serious eye irritation. Adverse symptoms may include pain, irritation, watering or redness.
Ingestion	Irritating to mouth, throat and stomach. Adverse symptoms: No specific data.
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.
Reproductive toxicity	Not expected to be a hazard
Specific target organ toxicity	
- single exposure	No data available
Specific target organ toxicity	
- repeated exposure	No data available

Section 12 Ecological Information

12.1 Toxicity	No data available
12.2 Persistence and degradability	No data available
12.3 Bioaccumulative potential	No data available
12.4 Mobility in soil	No data available
12.5 Results of PBT & vPvB assessment	No data available

Section 13 Disposal Considerations

13.1 Disposal

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers retain some product residue. Avoid spilled material and/or runoff with contact in soil, waterways, drains and sewers.

Section 14 Transport Information

14.1 DOT/IMDG/IATA	Not Regulated
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Freeman 690 Resin

Section 15 Regulatory Information

15.1 U.S. Federal Regulations

RCRA Hazardous Waste Number (40 CFR 261.33): Not listed

RCRA Hazardous Waste Classification (40 CFR 261): Not classified

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312: See Section 2

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

TSCA Inventory Status: All ingredients listed on TSCA inventory requirements.

15.2 U.S. State Regulations

Pennsylvania Worker and Community Right-To-Know Act: To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

California Proposition 65: This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

Section 16 Other Information

16.1 Disclaimer

The following supersedes Buyer's documents. SELLER MAKES NO REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict of liability arising in connection with the product(s). Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price. Data and results are based on controlled lab work and must be confirmed by Buyer by testing for its intended conditions of use. The product(s) has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended.

Issue Date: December 1, 2015

Revision Date: October 6, 2022

Section 1 Chemical Product and Company Identification

1.1 Product identifiers

Product name: Freeman 690 Clear Epoxy Laminating System, Part B (Hardener)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Epoxy constituent

1.3 Details of the supplier of the safety data sheet

Freeman Manufacturing & Supply Company

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2.1 GHS Classification in accordance with 29 CFR 1910.1200 (OSHA HCS)

Eye Irritation, Category 2A

Skin Irritation, Category 2

Skin Sensitization, Category 1

Specific Target Organ Toxicity (Single Exposure) (Respiratory Tract), Category 3

Acute Toxicity, Oral, Category 4

2.2 GHS Label elements, including precautionary statements



Signal Word: Warning

Hazard Statements

Causes serious eye irritation.

Causes skin irritation.

May cause an allergic skin reaction.

Harmful if swallowed.

May cause respiratory irritation.

Precautionary Statements

Prevention: Do not eat, drink or smoke when using this product.

Wash hands and face thoroughly after handling.

Avoid breathing dust, fume, gas, mist, vapors, or spray.

Use only outdoors or in a well-ventilated area.

Keep container tightly closed when not in use.

Wear protective gloves/eye protection/face protection/clothing.

Do not allow contaminated work clothing to leave the workplace.

Response: If swallowed: Rinse mouth. Call poison center or doctor if you feel unwell.

If on skin: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

If in eyes: Rinse continuously with water for at least 15 minutes.

Remove contact lenses, if present and easy to do.

If eye irritation persists: Get medical advice/attention.

If inhaled: Remove person to fresh air and get medical attention if ill or concerned.

Freeman 690 Hardener

Section 2 Hazards Identification continued

Storage: Store in a well-ventilated place. Keep cool.

Disposal: Dispose of contents and container to an appropriate waste site in accordance with local and national regulations.

Section 3 Composition/Information on Ingredients

3.1 Mixture

Ingredient Name	CAS Number	Composition %
Safety Adducted Modified Polyamine Epoxy Curing Agent	68610-56-0	90-100

There are no additional ingredients present which within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Section 4 First Aid Measures

4.1 Description of first aid measures

If inhaled: Move person into fresh air. If you feel unwell, get medical attention.

In case of skin contact: Immediately wash off with soap and plenty of water.

Remove contaminated clothing and wash before reuse. Get medical attention if irritation/rash occur.

In case of eye contact: Flush eyes with water for at least 15 minutes. Remove contact lenses if easy to do and continue rinsing. Get medical attention if irritation develops.

If swallowed: Rinse mouth. Do not induce vomiting unless directed to do so by medical personnel. Get medical help if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11

4.3 Indication of any immediate medical attention and special treatment needed

Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

Section 5 Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media: Use water for or fine spray, alcohol-resistant foam, dry chemical, or carbon dioxide. Foam or alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams or proteins may function but will be less effective.

Unsuitable extinguishing media: Direct heavy water stream may spread fire.

5.2 Special hazards arising from the substance or mixture

In a fire or if heated, a pressure increase will occur and the container may burst.

Thermal decomposition products may include carbon monoxide, carbon dioxide, and halogenated compounds.

5.3 Advice for firefighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Wear appropriate protective equipment and self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available.

Freeman 690 Hardener

Section 6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2 Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

6.3 Methods and materials for containment and cleaning up

Move containers from spill area. Absorb with an inert dry material until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Place in an appropriate waste disposal container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/ international regulations. For larger spills, dispose of via a licensed waste disposal contractor. Remove residual with soap and hot water. Solvents are not recommended for clean-up unless the recommended exposure guidelines and safe handling practices for the specific solvent are followed.

Section 7 Handling and Storage

7.1 Precautions for safe handling

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7.2 Conditions for safe storage, including any incompatibilities

For safe storage, store at or below 72°F (22°C). Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Store locked up.

Section 8 Exposure Controls/Personal Protection

8.1 Control parameters

Components with workplace control parameters

None

8.2 Exposure controls

Appropriate engineering controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mists and/or vapors below the recommended exposure limits. If ventilation is not adequate, use respiratory protection equipment.

8.3 Personal protective equipment

Eye/face protection

Use safety glasses equipped with side shields. Use chemical goggles if there is a risk of splashing.

8.4 Skin protection

Hand Protection

The glove material must be impermeable and resistant to the product/the substance/the preparation. Due to missing tests no recommendation to the glove material can be given. Contaminated gloves should be replaced.

Body Protection

Prevent skin contact when handling material.

Freeman 690 Hardener

Section 8 Exposure Controls/Personal Protection continued

8.5 Respiratory Protection

The need for respiratory protection is not anticipated under normal use conditions and with adequate ventilation. If elevated airborne concentrations above applicable workplace exposure levels are anticipated, use a NIOSH-approved organic vapor respirator equipped with a dust/mist prefilter.

8.6 Safety Stations

Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

8.7 General Hygienic Practices

Avoid breathing vapor or mist. Avoid contamination of food, beverages, or smoking materials. Wash thoroughly after handling, and before eating, drinking or smoking. Remove contaminated clothing promptly and clean thoroughly before reuse.

Section 9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance	Amber liquid
Odor	Mild
Odor Threshold	No data available
pH	No data available
Melting Point	No data available
Boiling Point	>500°F
Flash Point	265°F
Evaporation Rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability	No data available
Vapor Pressure at 72 °F	<1 mm Hg
Vapor Density (air = 1)	No data available
Specific Gravity	1.01 ± 0.05
Relative Density at 72 °F	8.40 lb./gal.
Water Solubility	Slight
Coefficient: n-octanol/ water	No data available
Auto-ignition temperature	No data available
Viscosity	2,000 cP
% Solids	100%
% Volatiles	0
VOC	0 g/L

Section 10 Stability and Reactivity

10.1 Reactivity	In normal storage hazardous reaction will not occur, reacts with amines.
10.2 Chemical stability	Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions should not occur.
10.4 Conditions to avoid	Avoid mixing resin (Part A) and curing agent (Part B) unless you plan to use immediately. Failure to observe this precaution may result in excessive heat build-up causing exotherm.
10.5 Incompatible materials	Keep away from strong oxidizing agents. Avoid contact with acids, bases, or unintended contact with amines.
10.6 Hazardous decomposition products	Thermal oxidative decomposition can produce carbon monoxide, carbon dioxide, and undetermined organic materials.

Freeman 690 Hardener

Section 11 Toxicological Information

11.1 Information on toxicological effects

Inhalation	May cause respiratory tract irritation. Adverse symptoms may include respiratory tract irritation/coughing.
Skin contact	This product may cause irritation to the skin. May cause an allergic skin reaction.
Eye contact	Adverse symptoms may include irritation, redness or rash This product may cause serious eye irritation. Adverse symptoms may include pain, irritation, watering or redness.
Ingestion	Irritating to mouth, throat and stomach. Adverse symptoms: No specific data.
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.
Reproductive toxicity	Not expected to be a hazard
Specific target organ toxicity	
- single exposure	No data available
Specific target organ toxicity	
- repeated exposure	No data available

Section 12 Ecological Information

12.1 Toxicity	No data available
12.2 Persistence and degradability	No data available
12.3 Bioaccumulative potential	No data available
12.4 Mobility in soil	No data available
12.5 Results of PBT & vPvB assessment	No data available

Section 13 Disposal Considerations

13.1 Disposal

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers retain some product residue. Avoid spilled material and/or runoff with contact in soil, waterways, drains and sewers.

Section 14 Transport Information

14.1 DOT/IMDG/IATA	Not Regulated
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Freeman 690 Hardener

Section 15 Regulatory Information

15.1 U.S. Federal Regulations

RCRA Hazardous Waste Number (40 CFR 261.33): Not listed

RCRA Hazardous Waste Classification (40 CFR 261): Not classified

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312: See Section 2

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

TSCA Inventory Status: All ingredients listed on TSCA inventory requirements.

15.2 U.S. State Regulations

Pennsylvania Worker and Community Right-To-Know Act: To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

California Proposition 65: This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

Section 16 Other Information

16.1 Disclaimer

The following supersedes Buyer's documents. SELLER MAKES NO REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict of liability arising in connection with the product(s). Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price. Data and results are based on controlled lab work and must be confirmed by Buyer by testing for its intended conditions of use. The product(s) has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended.

Issue Date: December 1, 2015

Revision Date: October 6, 2022