

Safety Data Sheet Freeman 701 Resin



Section 1 Identification

Product identifiers

Product name: Freeman 701 Resin

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

Identified uses: Epoxy resin

Details of the supplier of the safety data sheet

Freeman Manufacturing and Supply Company

1101 Moore Road, Avon, OH 44011

Telephone (440) 934-1902

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24 Hour emergency telephone number: CHEMTREC (800) 424-9300

Section 2 Hazards Identification

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

Skin Corrosion/Irritation, Category 1B

Serious Eye Damage/Eye Irritation, Category 1

Skin Sensitization, Category 1

Reproduction Toxicity, fertility, Category 2

Reproduction Toxicity, unborn child, Category 2

Acute Aquatic Hazard, Category 1

Long-Term Aquatic Hazard, Category 2

GHS Label elements, including precautionary statements









Signal word Danger

Hazard Statements

Causes severe skin burns and eve damage.

May cause an allergic skin reaction.

Suspected of damaging fertility or the unborn child.

Very toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention

Keep container tightly closed when not in use.

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

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

Avoid breathing vapor.

Avoid release to environment.

Wash hands thoroughly after handling.

Contaminated work clothing should not be allowed out of the workplace.

Response

If inhaled: Remove victim to fresh air and call a poison center/physician.

If swallowed: Immediately call a poison center/physician. Rinse mouth, do not induce vomiting.



Freeman 701 Resin

Section 2 Hazards Identification continued

If on skin: Immediately take off contaminated clothing and rinse skin with plenty of water and soap/shower. Call a poison center/physician. 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. Call a poison center/physician.

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.

Hazards not otherwise classified (HNOC) or not covered by GHS

None known

Section 3 Composition/Information on Ingredients

Ingredient Name	CAS Number	Concentration (%)
Bisphenol A epoxy resin	25068-38-6	30 - 60
Butylphenyl Glycidyl Ether	3101-60-8	7-13
Nonylphenol	84852-15-3	7-13

Section 4 First Aid Measures

Description of first aid measures

If inhaled

Move person into fresh air. If not breathing, give artificial respiration. Call a poison center or physician. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, breathing is irregular, or respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway and loosen tight clothing.

In case of skin contact

Get medical attention immediately. Call a poison center/physician. Wash with plenty of soap and water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any symptoms, avoid further exposure. Wash contaminated clothes/shoes before reuse.

In case of eye contact

Get medical attention immediately. Call a poison center/physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

If swallowed

Get medical attention immediately. Call a poison center/physician. Wash out mouth with water and remove dentures if present. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If conscious, give exposed person small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. DO not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept



Freeman 701 Resin

Section 4 First Aid Measures

low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. Maintain an open airway and loosen tight clothing.

Most important symptoms and effects, both acute and delayed

Eye contact: May cause pain, watering, and redness.

Skin contact: May cause pain, irritation, redness, blistering, reduced fetal weight, increase in fetal death, and skeletal malformations.

Inhalation: May cause reduced fetal weight, increase in fetal deaths, and skeletal malformations.

Ingestion: May cause stomach pains, reduced fetal weight, increase in fetal deaths, and

skeletal malformations.

Notes to physician: Symptomatic treatment and supportive therapy as indicated.

Section 5 Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

In a fire or if heated, a pressure increase will occur and the container may burst. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer, or drain.

Decomposition products may include carbon dioxide, carbon monoxide, halogenated compounds, or metal oxides.

Hazardous thermal decomposition products

Carbon dioxide, carbon monoxide, nitrogen oxides, halogenated compounds, metal oxides

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Section 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions

Avoid contact with soil, waterways, drains, and sewers. Inform relevant authorities if the product has caused environmental pollution. May be harmful to the environment if released in large quantities. Collect spillage.

Methods and materials for containment and cleaning up

Stop leak if without risk. Move containers from spill area and approach release from upwind. Prevent entry into sewers, water courses, basements, or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material and place in closed container for disposal according to local regulations.



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Section 7 Handling and Storage

Precautions for safe handling

Do not get in eyes or on skin/clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Provide appropriate exhaust ventilation. Keep in original container or an approved alternative and keep tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Conditions for safe storage, including any incompatibilities

Store at ambient temperatures in closed containers in a well-ventilated area, away from chemical incompatibilities. Store locked up and sealed to prevent leakage.

Section 8 Exposure Controls/Personal Protection

Components with workplace control parameters

None known

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. An eye wash station and safety shower should be located near the workstation.

Personal protective equipment

Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Skin protection

Hand protection

Use butyl-rubber, nitrile rubber, or other solvent-resistant gloves.

Contaminated gloves should be replaced.

Body protection

Prevent skin contact when handling material.

Respiratory protection

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Safety stations

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

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.



Freeman 701 Resin

Section 9 Physical and Chemical Properties

Appearance White liquid/paste

Odor Mild

Odor threshold No data available nН No data available **Boiling point** >260°C (>500°F) Flash point (closed cup) >93.33°C (>200°F) **Evaporation rate** No data available Flammability (solid, gas) No data available **Upper/lower flammability** No data available Vapor Pressure No data available Vapor density No data available

Relative density (g/cc) 1.5

Water Solubility Insoluble

Coefficient: n-octanol/waterNo data availableAuto-ignition temperatureNo data availableDecomposition temperatureNo data availableViscosityNo data available

Explosive Properties None **Oxidizing Properties** None

% Volatile No data available

Section 10 Stability and Reactivity

Reactivity

Stable under recommended storage conditions.

Chemical stability

No decomposition if stored and applied as directed.

Possibility of hazardous reactions

None known.

Conditions to avoid

No specific data.

Incompatible materials

No specific data.

Hazardous decomposition products

Thermal oxidative decomposition can produce carbon oxides, and nitrogen oxides.

Section 11 Toxicological Information

Information on toxicological effects

Acute oral toxicityBisphenol A Epoxy Resin: LD50 >2000 mg/kg (Rat)Acute inhalation toxicityBisphenol A Epoxy Resin: LC50 0.00001 ppm (Rat)

Acute dermal toxicity Nonylphenol: LD50 1412 mg/kg (Rabbit)

Skin corrosion/irritation
Serious eye damage/eye irritation
Respiratory or skin sensitization
Germ cell mutagenicity

Mild skin irritant
Mild eye irritant
Sensitizer
No specific data



Freeman 701 Resin

Section 11 Toxicological Information

Carcinogenicity

IARC No component of this product present at levels greater than or equal to 0.1%

is identified as a carcinogen or potential carcinogen.

ACGIH No component of this product present at levels greater than or equal to 0.1%

is identified as a carcinogen or potential carcinogen.

NTP No component of this product present at levels greater than or equal to 0.1%

is identified as a known or anticipated carcinogen.

OSHA 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 Suspected of damaging fertility

STOT - single exposure (Specific target organ toxicity) No data available **STOT - repeated exposure** (Specific target organ toxicity) No data available

Aspiration Hazard No data available

Section 12 Ecological Information

Toxicity Persistence and degradabilityHarmful to aquatic life
Not readily biodegradable

Bioaccumulative potential No data available

Mobility in soil No known significant effects or critical hazards.

Results of PBT & vPvB assessment No data available

Section 13 Disposal Considerations

The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and nonrecyclable 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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14 Transport Information

DOT: Shipping Name: Corrosive liquid, n.o.s. (Nonyl phenol). Marine pollutant (Bisphenol A

epoxy resin)
Hazard Class: 8
ID No.: UN 1760
Packing Group: II
Label: Corrosive

Marine pollutants are only regulated for bulk and vessel shipments, per 49CFR171.4 (c) Exceptions. Except when all or part of the transportation is by vessel, the requirements of this subchapter specific to marine pollutants do not apply to non-bulk packagings transported by motor vehicle, rail car or aircraft.



Safety Data Sheet Freeman 701 Resin

Section 14 Transport Information continued

IATA: Shipping Name: Corrosive liquid, n.o.s. (Nonyl phenol)

Hazard Class: 8 ID No.: UN 1760 Packing Group: II Label: Corrosive

IMDG: **Shipping Name**: Corrosive liquid, n.o.s. (Nonyl phenol). Marine pollutant (Bisphenol A epoxy

esin)

Hazard Class: 8 ID No.: UN 1760 Packing Group: II

Label: Corrosive, Marine Pollutant

Section 15 Regulatory Information

US Federal Regulations

RCRA Hazardous Waste Number (40 CFR 261.33): Not listed RCRA Hazardous Waste Classification (40 CFR 261): Not classified

CERCLA Hazardous Substance (40 CFR 302.4): Listed/unlisted specific per RCRA Sec. 3001

SARA 311/312 Codes: Acute health hazard, Chronic health hazard

SARA Toxic Chemical (40 CFR 372.65): Not listed

TSCA Inventory Status: All ingredients listed on TSCA inventory requirements

US State Regulations

California Proposition 65: **MARNING**: This product can expose you to chemicals including butyl benzyl phthalate, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov. Contains less than 1% butyl benzyl phthalate

Section 16 Other Information

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.



Freeman 701 Hardener

Section 1 Identification

Product identifiers

Product name: Freeman 701 Hardener

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

Identified uses: Epoxy system hardener **Details of the supplier of the safety data sheet**

Freeman Manufacturing and Supply Company

1101 Moore Road, Avon, OH 44011

Telephone (440) 934-1902

24 Hour emergency telephone number: CHEMTREC (800) 424-9300

Section 2 Hazards Identification

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

Acute Toxicity, dermal, Category 4

Acute Toxicity, inhalation, Category4

Skin Corrosion/Irritation, Category 1B

Serious Eye Damage/Eye Irritation, Category 1

Skin Sensitization, Category 1

Carcinogenicity, Category 2

Reproductive Toxicity, Category 2

Acute Aquatic Environment, Category 3

Chronic Aquatic Environment, Category 2

GHS Label elements, including precautionary statements









Signal word

Danger

Hazard Statements

Harmful in contact with skin, or if inhaled.

Causes severe skin burns and eye damage.

May cause an allergenic skin reaction.

Suspected of causing cancer.

May damage fertility.

Harmful to aquatic life.

Very toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention

Keep container tightly closed when not in use.

Wear protective gloves/eye protection/face protection.

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

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Freeman 701 Hardener

Section 2 Hazards Identification continued

Use in a well ventilated area.

Avoid breathing vapor.

Collect spillage.

Response

Get medical attention if you feel unwell.

IF exposed or if you feel unwell: Call a POISON CENTER or physician.

IF SWALLOWED: Rinse mouth. Do not induce vomiting. Get medical attention.

IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse.

If skin irritation or rash occurs: Get medical attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical attention.

IF IN EYES: Rinse cautiously for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get medical attention immediately.

Wash contaminated clothing before reuse.

Collect spillage.

Storage

Store in a well-ventilated place. Keep container tightly closed.

Disposal

Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified (HNOC) or not covered by GHS

None known

Section 3 Composition/Information on Ingredients

Ingredient Name	CAS Number	Concentration (%)
Tetraethylenepentamine	112-57-2	60 - 100
4,4'-isopropylidenediphenol	80-05-7	3 – 7
Diethylenetriamine	111-40-0	3 - 7
Butyl 2,3-epoxypropylether	2426-08-6	0.1 - 1

Section 4 First Aid Measures

Description of first aid measures

If inhaled

Move person into fresh air. If not breathing, give artificial respiration. Get medical attention.

In case of skin contact

Wash off with soap and plenty of water. Get immediate medical attention.

In case of eye contact

Flush eyes with water for at least 15 minutes. Get medical attention immediately. Continue rinsing eyes during transport to hospital.

If swallowed

Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get immediate medical attention.



Freeman 701 Hardener

Section 5 Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Unsuitable extinguishing media: High volume water jet.

Special hazards arising from the substance or mixture

Do not allow run-off from firefighting to enter drains or water courses.

Hazardous thermal decomposition products

Carbon dioxide, carbon monoxide, nitrogen oxides

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

Collect contaminated fire extinguishing water separately. Do not discharge into drains. Dispose of in accordance with local regulations.

Section 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Avoid breathing vapors, mist or gas. For personal protection see section 8.

Environmental precautions

Do not let product enter drains. If product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up

Dike and contain spill. Soak up with inert absorbent material (e.g. sand, silica gel, sawdust). Keep in suitable, closed containers for disposal.

Section 7 Handling and Storage

Precautions for safe handling

Do not breathe vapors/dust. Avoid exposure. Obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. To avoid spills during handling keep bottle on a metaltray. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process inwhich this mixture is being used.

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry and well-ventilated place. Carefully reseal opened containers after use. No known incompatible materials.

Section 8 Exposure Controls/Personal Protection

Components with workplace control parameters

Ingredient	09	SHA	ACGIH		
	PEL	STEL	TWA	STEL	
2,2'-iminodi(ethylamine)	1 ppm	None established	1 ppm	None established	
Butyl 2,3- epoxypropylether	None established	None established	3 ppm	None established	



Freeman 701 Hardener

Section 8 Exposure Controls/Personal Protection continued

Appropriate engineering controls

If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Personal protective equipment

Eye/face protection

Use safety goggles.

Hand protection

Use impervious gloves. Discuss suitability with glove manufacturer.

Skin/body protection

Prevent skin contact when handling material. Wear impervious clothing.

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, a NIOSH-approved organic vapor respirator equipped with a dust/mist prefilter should be used.

Safety stations

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

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

No data available

Appearance Amber liquid Amine-like Odor Odor threshold No data available No data available рH VOC No data available Freezing point No data available **Boiling point** 204°C (400°F) Flash point (Seta closed cup) > 93°C (> 199°F) **Evaporation rate** No data available Flammability (solid, gas) No data available Upper/lower flammability No data available Vapor pressure No data available Relative vapor density No data available **Relative density** 1.01 Water solubility Slightly soluble Coefficient: n-octanol/ water No data available Auto-ignition temperature No data available **Decomposition temperature** No data available Viscosity No data available **Explosive properties** No data available

Oxidizing properties



Freeman 701 Hardener

Section 10 Stability and Reactivity

Reactivity

No known dangerous reaction if stored and applied as directed.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None known.

Conditions to avoid

None known.

Incompatible materials

None known.

Hazardous decomposition products

Thermal oxidative decomposition can produce carbon oxides, and nitrogen oxides.

Section 11 Toxicological Information

Information on toxicological effects

Acute oral toxicity2,173 mg/kg (calculated)Acute inhalation toxicity4.93 mg/l, 4 h (calculated)Acute dermal toxicity1,585 mg/kg (calculated)

Skin corrosion/irritation Extremely corrosive and destructive to tissue

Serious eye damage/eye irritation May cause irreversible eye damage

Respiratory or skin sensitization Causes skin sensitization

Germ cell mutagenicity No data available

Carcinogenicity

IARC No component of this product present at levels greater than or equal to 0.1%

is identified as a carcinogen or potential carcinogen.

NTP No component of this product present at levels greater than or equal to 0.1%

is identified as a known or anticipated carcinogen.

OSHA 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 Evidence for both reproductive toxicity and causing birth

defects (animal data only)

STOT - single exposure (Specific Target Organ Toxicity) Respiratory tract irritation

STOT - repeated exposure (Specific Target Organ Toxicity) No data available

Aspiration toxicity No data available

Section 12 Ecological Information

Toxicity

Persistence and degradability

Bioaccumulative potential

Mobility in soil

Results of PBT & vPvB assessment

Harmful to aquatic life

No data available

No data available

No data available



Freeman 701 Hardener

Section 13 Disposal Considerations

Contact a licensed waste management company for detailed recommendations. Follow applicable Federal, State, and local regulations.

Section 14 Transport Information

DOT: Shipping Name: Polyamines, liquid, corrosive, n.o.s. (TETRAETHYLENE PENTAMINE,

TRIETHYLENE TETRAMINE)

Hazard Class: 8 ID No.: UN 2735 Packing Group: II Label: Corrosive ERG Code: 153

Marine pollutant: yes

IATA: Shipping Name: Polyamines, liquid, corrosive, n.o.s. (TETRAETHYLENE PENTAMINE,

TRIETHYLENE TETRAMINE)

Hazard Class: 8 ID No.: UN 2735 Packing Group: II Label: Corrosive

Packing instruction (cargo aircraft): 855 Packing instruction (passenger aircraft): 851

IMDG: Shipping Name: Polyamines, liquid, corrosive, n.o.s. (TETRAETHYLENE PENTAMINE,

TRIETHYLENE TETRAMINE)

Hazard Class: 8 ID No.: UN 2735 Packing Group: II

Label: 8

EmS Code: F-A, S-B **Marine pollutant:** yes

Section 15 Regulatory Information

US Federal Regulations

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

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

CERCLA Hazardous Substance (40 CFR 302.4): Listed/unlisted specific per RCRA Sec. 3001

SARA 311/312 Codes: No SARA Hazards

SARA Toxic Chemical (40 CFR 372.65): 4,4'isopropylidenediphenol 80-05-7 6.25%

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

State Regulations



Safety Data Sheet Freeman 701 Hardener

Section 16 Other Information

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