

Safety Data Sheet
Freeman 705 Part A (Resin)

Section 1 Identification

Product identifiers

Product name: Freeman 705 Epoxy Surface Coat Part A (Resin)

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

Identified uses: Resin component of general purpose, PFP, epoxy surface coat - For Industrial Use Only

Details of the supplier of the safety data sheet

Freeman Manufacturing & Supply Company

1101 Moore Road, Avon, OH 44011 USA

Telephone: +1 (440) 934-1902

Email: contactus@freemansupply.com

24 Hour emergency telephone number:

CHEMTREC (800) 424-9300

Section 2 Hazards Identification

GHS Classification in accordance with 29 CFR 1910.1200 (OSHA Hazard Communication Standard)

Skin Irritation, Category 2

Eye Irritation, Category 2A

Skin Sensitization, Category 1

Acute Toxicity Oral, Category 4

Specific Target Organ Toxicity (Single Exposure) (Respiratory tract irritation) – Category 3

Label elements



Warning

Hazard Statements

H315-Causes skin irritation.

H319-Causes serious eye irritation.

H317-May cause an allergic skin reaction.

H302- Harmful if swallowed.

H335-May cause respiratory irritation.

Precautionary Statements

Prevention: Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wear protective gloves/protective clothing. Wear eye and face protection. Avoid breathing dust, fume, gas, mist, vapors or spray. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of 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 irritation or rash occurs, get medical advice/attention. Take off contaminated clothing & wash before reuse. IF IN EYES rinse cautiously with water for several minutes while holding eye lid(s) open. Remove contact lenses, if present and easy to do and continue rinsing. If eye irritation persists get medical advice/attention. IF INHALATION occurs, remove person to fresh air and get medical advice/attention if ill or concerned.

Storage: Store locked up 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.

Safety Data Sheet

Freeman 705 Part A (Resin)

Section 3 Composition/Information on Ingredients

Ingredient Name	CAS Number	Concentration (%)
Epoxy Resin	25068-38-6	< 70
Diglycidyl Ether	17557-23-2	>10
Talc	14807-96-6	<90

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

Description of first aid measures

If inhaled: Move person into fresh air and keep at rest in a position comfortable for breathing. If not breathing, provide artificial respiration. Get medical attention.

In case of skin contact: Immediately wash with soap and plenty of water. Remove contaminated clothing and wash before reuse. Seek medical attention if irritation/rash occurs.

In case of eye contact: Flush eyes thoroughly with water for several minutes. Remove contact lenses if easy to do and continue rinsing. If signs/symptoms persist, get medical attention.

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

Most important symptoms and effects, both acute and delayed

See Section 11.1 Information on toxicological effects.

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

Extinguishing media

Suitable extinguishing agents: Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam or alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams or protein foams may function, but will be less effective. Water fog applied gently may be used as a blanket for fire extinguishment.

Unsuitable extinguishing agents: Do not use direct water stream, may spread fire.

Special hazards arising from the substance or mixture

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

Hazardous thermal decomposition products

Decomposition products may include the following materials: carbon dioxide, carbon monoxide, or halogenated compounds.

Special protective actions for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

Special protective equipment for fire-fighters

Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6 Accidental Release Measures

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.

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.

Methods and materials for containment and clean-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

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.

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. Avoid contact with oxidizing agents (e.g. Chlorine, chromic acid etc.)

Section 8 Exposure Controls/Personal Protection

Components with workplace control parameters

None

Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Personal protective equipment

Eye protection: Use safety glasses equipped with side shields, or goggles.

Skin protection: Avoid skin contact. Wear PVC or rubber gloves to keep skin contact to a minimum. Refer to the manufacturer's recommendations regarding the suitability of any gloves used. Contaminated gloves should be replaced.

Section 8 Exposure Controls/Personal Protection

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

Appearance	Opaque white thick liquid
Odor	Mild
Odor Threshold	No data available
pH	No data available
Melting Point	No data available
Boiling Point	>400°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	<1 mmHg
Vapor density	No data available
Relative density at 72°F	13.10 lb./gallon
Specific Gravity	1.57
Water Solubility	Slight
Coefficient: n-octanol/ water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive Properties	None
Oxidizing Properties	None
VOC Content	0%

Section 10 Stability and Reactivity

Chemical Stability	Stable at normal conditions.
Hazardous reactions	Under normal conditions of storage and use, hazardous reactions should not occur.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should be produced.
Dangerous reactions	In normal storage hazardous reaction will not occur, reacts with amines.
Incompatible materials	Keep away from strong oxidizing agents. Avoid contact with Acids, Bases or unintended contact with amines.

Safety Data Sheet

Freeman 705 Part A (Resin)

Section 10 Stability and Reactivity

Reactivity
Conditions to avoid

Not available.
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.

Section 11 Toxicological Information

Potential Health Effects/Symptoms

Inhalation

May cause respiratory tract irritation. Adverse symptoms may include the following: respiratory tract irritation/coughing.

Skin contact

This product may cause irritation to the skin. May cause an allergic skin reaction. Adverse symptoms may include the following: irritation, redness or rash

Eye contact

This product may cause serious eye irritation. Adverse symptoms may include the following: pain, irritation, watering or redness.

Ingestion

Irritating to mouth, throat and stomach. Adverse symptoms: No specific data.

Information on toxicological effects

Acute oral toxicity

No data available

Acute inhalation toxicity

No data available

Acute dermal toxicity

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory sensitization

No data available

Skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No ingredient is identified as an established or suspect carcinogen (OSHA, NTP, IARC, ACGIH)

Reproductive toxicity

No data available

Specific target organ toxicity

- single exposure

No data available

Specific target organ toxicity

- repeated exposure

No data available

Aspiration hazard

No data available

Section 12 Ecological Information

Toxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT & vPvB assessment

No data available

Safety Data Sheet

Freeman 705 Part A (Resin)

Section 13 Disposal Considerations

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

Land Transport (DOT)	Non- Regulated
Marine Transport (IMDG)	Non-Regulated
Air Transport (IATA)	Non-Regulated

Section 15 Regulatory Information

Under States TSCA Inventory (TSCA)

All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

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.

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

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

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.

Date of initial release: December 1, 2015
 Date of previous revision: December 1, 2015
 Current revision date: September 16, 2024

Section 1 Identification

Product identifiers

Product name: Freeman 705-15 Epoxy Surface Coat Part B (Hardener)

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

Identified uses: Hardener component of general purpose, PFP, epoxy surface coat - For Industrial Use Only

Details of the supplier of the safety data sheet

Freeman Manufacturing & Supply Company

1101 Moore Road, Avon, OH 44011 USA

Telephone: +1 (440) 934-1902

Email: contactus@freemansupply.com

24 Hour emergency telephone number:

CHEMTREC (800) 424-9300

Section 2 Hazards Identification

GHS Classification in accordance with 29 CFR 1910.1200 (OSHA Hazard Communication Standard)

Acute toxicity(oral), Category 4

Acute toxicity(dermal), Category 4

Skin corrosion/irritation, Category 1B

Serious eye damage / eye irritation, Category 1

Skin sensitizer, Category 1

Reproductive toxicity, Category 1B

Aquatic toxicity (acute), Category 2

Aquatic toxicity (chronic), Category 1

Label elements



Danger

Hazard statements

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H360 May damage fertility.

H401 Toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects,

Precautionary statements

Prevention: P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe dust, fume, mist, vapors or spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves, protective clothing, eye protection, face protection.

Section 2 Hazards Identification

Response: P301+312 IF SWALLOWED: Call a POISON CENTER, doctor or physician if you feel unwell.

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P303+361+353 IF ON SKIN (or hair): Remove, take off immediately all contaminated clothing. Rinse skin with water, shower.

P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P308+313 IF exposed or concerned: Get medical advice or attention.

P310 Immediately call a POISON CENTER, doctor or physician.

P312 Call a POISON CENTER, doctor or physician if you feel unwell.

P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P333+313 If skin irritation or a rash occurs: Get medical advice or attention.

P362+364 Take off contaminated clothing and wash it before reuse.

P363 Wash contaminated clothing before reuse.

P391 Collect spillage.

Storage: P405 Store locked up.

Disposal: P501 Dispose of contents and container to an appropriate waste site in accordance with local and national regulations.

Other hazards

This product contains no endocrine disrupting chemicals.

Section 3 Composition/Information on Ingredients

Ingredient Name	CAS Number	Weight Concentration (%)	GHS Classification
Amine	Proprietary	30 - 60	Acute toxicity(dermal), category 4; H312 Acute toxicity(oral), category 4; H302 Skin corrosion/irritation, category 1B; H314 Skin sensitizer, category 1; H317
Amine	68131-73-7	30 - 60	Acute toxicity(dermal), category 4; H312 Acute toxicity(oral), category 4; H302 Skin corrosion/irritation, category 1B; H314 Skin sensitizer, category 1; H317 Aquatic toxicity (chronic), category 3; H412
4,4-isopropylidene diphenol < Bisphenol A >	80-05-7	10 - 30	Specific target organ toxicity, Specific exposure, category 3; H335 Serious eye damage / eye irritation, category 1; H318 Skin sensitizer, category 1; H317 Reproductive toxicity, category 1B; H360 Aquatic toxicity (acute), category 1; H400 Aquatic toxicity (chronic), category 1; H410
Nonylphenol	25154-52-3	3 - 7	Reproductive toxicity, category 2; H361 Acute toxicity(oral), category 4; H302 Skin corrosion/irritation, category 1B; H314 Aquatic toxicity (acute), category 1; H400 Aquatic toxicity (chronic), category 1; H410

Section 3 Composition/Information on Ingredients

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

Description of First Aid Measures

General: In all cases of doubt, or when symptoms persist, seek medical attention.

Never give anything by mouth to an unconscious person.

If inhaled: Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

In case of eye contact: Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

In case of skin contact: Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.

If swallowed: If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed

Treat symptomatically. See section 2 for further details.

Eyes: Causes serious eye irritation.

Skin: Harmful in contact with skin. May cause an allergic skin reaction.

Causes severe skin burns and eye damage.

Ingestion: Harmful if swallowed.

Indication of any immediate medical attention and special treatment required

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

Section 5 Fire-Fighting Measures

Suitable extinguishing media

Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam or alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams or protein foams may function but will be less effective. Water fog applied gently may be used as a blanket for fire extinguishment.

Unsuitable extinguishing agents

Do not use direct water stream, may spread fire.

Specific hazards arising from the chemical

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

Hazardous thermal decomposition products

Decomposition products may include the following materials:
carbon dioxide, carbon monoxide, or halogenated compounds.

Special protective actions for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

Special protective equipment for fire-fighters

Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6 Accidental Release Measures

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.

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.

Methods and materials for containment and clean-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

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.

Conditions for safe storage, including any incompatibilities

Do not freeze. Store between 60°F and 100°F. Keep containers tightly closed in a cool, well-ventilated area away from heat and incompatible materials. Incompatible materials: None known

Section 8 Exposure Controls/Personal Protection

Components with workplace control parameters

Ingredient	Source	Value
Amine	OSHA	No Established Limit
	ACGIH	TWA: 1 ppm
	NIOSH	TWA 1 ppm (4 mg/m3) [skin]

Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Personal protective equipment

Eye protection: Wear safety glasses equipped with side shields, or chemical goggles if splashing is possible.

Skin protection: Avoid skin contact. Wear PVC or rubber gloves to keep skin contact to a minimum. Refer to the manufacturer's recommendations regarding the suitability of any gloves used. Contaminated gloves should be replaced.

Section 8 Exposure Controls/Personal Protection

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

Appearance	Amber liquid
Odor	Distinct
Odor Threshold	No data available
pH	No data available
Melting Point	No data available
Boiling Point	No data available
Flash Point (closed cup)	250°F (121°C)
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability	No data available
Vapor pressure at 72°F	No data available
Vapor density	No data available
Specific Gravity	No data available
Solubility	No data available
Coefficient: n-octanol/ water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	Approximately 3,400 cP at 25°C
Explosive Properties	None
Oxidizing Properties	None
VOC Content	0%

Section 10 Stability and Reactivity

Chemical Stability	Stable at normal conditions.
Hazardous reactions	Under normal conditions of storage and use, hazardous reactions should not occur.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should be produced.
Dangerous reactions	In normal storage hazardous reaction will not occur, reacts with amines.
Incompatible materials	Keep away from strong oxidizing agents. Avoid contact with Acids, Bases or unintended contact with amines.
Reactivity	Not available.

Section 10 Stability and Reactivity
Conditions to avoid

Avoid high temperatures. 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.

Section 11 Toxicological Information
Acute toxicity

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg
Amine - (Proprietary)	1,080.00, Rat - Category: 4	1,090.00, Rabbit - Category: 4
Amine - (Proprietary)	500.00, Point Estimate - Category: 4	1,100.00, Point Estimate - Category: 4
4,4-isopropylidene diphenol < Bisphenol A > - (80-05-7)	5,000.00, Rat - Category: 5	3,000.00, Rabbit - Category: 5
Nonyl phenol - (25154-52-3)	580.00, Rat - Category: 4	>2,000.00, Rabbit -Category: 5

Information on toxicological effects
Acute oral toxicity

Harmful if swallowed

Acute inhalation toxicity

Not applicable

Acute dermal toxicity

Harmful in contact with skin

Skin corrosion/irritation

Causes skin irritation

Serious eye damage/eye irritation

Causes severe skin burns and eye damage.

Respiratory sensitization

Not applicable

Skin sensitization

May cause an allergic skin reaction

Germ cell mutagenicity

Not Applicable

Carcinogenicity

No ingredient is identified as an established or suspect carcinogen (OSHA, NTP, IARC, ACGIH)

Reproductive toxicity

May damage fertility.

Specific target organ toxicity
- single exposure

None expected to be a hazard

Specific target organ toxicity
- repeated exposure

None expected to be a hazard

Aspiration hazard

Not applicable

Section 12 Ecological Information

Ecotoxicity

Very toxic to aquatic life with long lasting effects

Ingredient	96 hr LC50 fish, mg/L	48 hr EC50 crustacea, mg/L	ErC50 algae, mg/L
Amine - (Proprietary)	1,014.00, Poecilia reticulata	53.50, Daphnia magna	345.60, Pseudokirchneriella subcapitata
Amine - (Proprietary)	100.00, Oncorhynchus mykiss	32.00, Daphnia magna	495.00, Pseudokirchneriella subcapitata
4,4-isopropylidene diphenol < Bisphenol A > - (80-05-7)	4.60, Pimephales promelas	7.75, Daphnia magna	2.73, Pseudokirchneriella subcapitata
Nonyl phenol - (25154-52-3)	0.14, Pimephales promelas	0.10, Daphnia magna	1.30, Scenedesmus subspicatus

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT & vPvB assessment

This product contains no PBT/vPvB chemicals.

Section 13 Disposal Considerations

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

DOT: UN1760, Corrosive liquids, n.o.s., 8, III

IMDG: UN1760, Corrosive liquids, n.o.s. (Amines), 8, III

IATA: UN1760, Corrosive liquids, n.o.s. (Amines), 8, III

Marine Pollutant: Yes (4,4-isopropylidene diphenol < Bisphenol A >)

Section 15 Regulatory Information

Under States TSCA Inventory (TSCA)

All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

Section 15 Regulatory Information**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.

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

⚠️ **WARNING:** This product can expose you to chemicals including 4,4-isopropylidene diphenol < Bisphenol A >, 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.

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.

Date of initial release: December 1, 2015

Date of previous revision: December 1, 2015

Current revision date: September 12, 2024

Section 1 Identification

Product identifiers

Product name: Freeman 705-45 Epoxy Surface Coat Part B (Hardener)

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

Identified uses: Hardener component of general purpose, PFP, epoxy surface coat - For Industrial Use Only

Details of the supplier of the safety data sheet

Freeman Manufacturing & Supply Company

1101 Moore Road, Avon, OH 44011 USA

Telephone: +1 (440) 934-1902

Email: contactus@freemansupply.com

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

Section 2 Hazards Identification

GHS Classification in accordance with 29 CFR 1910.1200 (OSHA Hazard Communication Standard)

Skin Corrosion/Irritation, Category 2

Eye Damage/Irritation, Category 2A

Skin Sensitization, Category 1

Acute Toxicity, Oral, Category 4

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

Label elements



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. Wear protective gloves/protective clothing. Wear eye and face protection. Avoid breathing dust, fume, gas, mist, vapors or spray. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of 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. Take off contaminated clothing and wash 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 inhalation** occurs, remove person to fresh air and get medical advice/attention if ill or concerned.

Storage: Store in a well-ventilated place. Keep cool. Keep container tightly closed when not in use.

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

Section 3 Composition/Information on Ingredients

Ingredient Name	CAS Number
Safety Adducted Modified Polyamine Epoxy Curing Agent	68610-56-0

Section 3 Composition/Information on Ingredients

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

Description of First Aid Measures

If inhaled: Move person into fresh air. Get medical attention if you feel unwell.

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 symptoms 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. Call poison center or doctor if you feel unwell.

Most important symptoms and effects, both acute and delayed

See Section 11 Information on toxicological effects

Indication of any immediate medical attention and special treatment required

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

Section 5 Fire-Fighting Measures

Suitable extinguishing media

Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam or alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams or protein foams may function but will be less effective. Water fog applied gently may be used as a blanket for fire extinguishment.

Unsuitable extinguishing agents

Do not use direct water stream, may spread fire.

Specific hazards arising from the chemical

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

Hazardous thermal decomposition products

Decomposition products may include the following materials:
carbon dioxide, carbon monoxide, or halogenated compounds.

Special protective actions for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

Special protective equipment for fire-fighters

Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6 Accidental Release Measures

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.

Section 6 Accidental Release Measures

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.

Methods and materials for containment and clean-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

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.)

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

Components with workplace control parameters

None

Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Personal Protective Equipment

Eye protection: Wear safety glasses equipped with side shields, or chemical goggles if splashing is possible.

Skin protection: Avoid skin contact. Wear PVC or rubber gloves to keep skin contact to a minimum. Refer to the manufacturer's recommendations regarding the suitability of any gloves used. Contaminated gloves should be replaced.

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

Appearance	Light yellow liquid
Odor	Slight
Odor Threshold	No data available
pH	No data available
Melting Point	No data available
Boiling Point	No data available
Flash Point	104°C (220°F)
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability	No data available
Vapor pressure	<1 mm Hg
Vapor density	No data available
Relative density at 72°F	8.88 lb./gal
Specific Gravity	1.07
Water Solubility	Slight
Coefficient: n-octanol/ water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive Properties	None
Oxidizing Properties	None
VOC Content	0%

Section 10 Stability and Reactivity

Chemical Stability	Stable at normal conditions.
Hazardous reactions	Under normal conditions of storage and use, hazardous reactions should not occur.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should be produced.
Dangerous reactions	In normal storage hazardous reaction will not occur, reacts with amines.
Incompatible materials	Keep away from strong oxidizing agents. Avoid contact with Acids, Bases or unintended contact with amines.
Reactivity	Not available.
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.

Section 11 Toxicological Information

Potential Health Effects/Symptoms	
Inhalation	May cause respiratory tract irritation. Adverse symptoms may include the following: respiratory tract irritation/coughing.

Section 11 Toxicological Information
Skin contact

This product may cause irritation to the skin.
 May cause an allergic skin reaction.
 Adverse symptoms may include the following:
 irritation, redness or rash

Eye contact

This product may cause serious eye irritation.
 Adverse symptoms may include the following:
 pain, irritation, watering or redness.

Ingestion

Irritating to mouth, throat and stomach.
 Adverse symptoms: No specific data.

Information on toxicological effects
Acute oral toxicity

No data available

Acute inhalation toxicity

No data available

Acute dermal toxicity

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory sensitization

No data available

Skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No ingredient is identified as an established or suspect carcinogen
 (OSHA, NTP, IARC, ACGIH)

Reproductive toxicity

No data available

Specific target organ toxicity
- single exposure

No data available

Specific target organ toxicity
- repeated exposure

No data available

Aspiration hazard

No data available

Section 12 Ecological Information
Toxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT & vPvB assessment

No data available

Section 13 Disposal Considerations

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

Land Transport (DOT)	Non- Regulated
Marine Transport (IMDG)	Non-Regulated
Air Transport (IATA)	Non-Regulated

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

Section 15 Regulatory Information
Under States TSCA Inventory (TSCA)

All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

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.

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

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
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.

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