

Section 1 Identification

Product identifiers

Product name: Freeman 90-1 Clear Pattern Coating

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

Identified uses: Pattern Coating

Details of the supplier of the safety data sheet:

Freeman Manufacturing and Supply Company
 1101 Moore Road, Avon, OH 44011
 Phone (440) 934-1902
 FAX (440) 934-7200

HMIS	
H	2
F	3
R	0
PPE	
Sec. 8	

24 Hour Emergency Phone Number: (800) 424-9300

Section 2 Hazards Identification

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

- Flammable Liquid, Category 1
- Skin Corrosive, Category 2
- Eye Corrosive, Category 2A
- Mutagen, Category 1B
- Carcinogen, Category 1B
- Reproductive Toxin, Category 1A
- Aspiration Hazard, Category 1

GHS Label elements



Signal word

Danger

Hazard statements

- Extremely flammable liquid and vapor
- May be fatal if swallowed and enters airways
- Causes skin irritation
- Causes serious eye irritation
- May cause genetic defects
- May cause cancer
- May damage fertility or the unborn child

Precautionary statements

Prevention

- Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- Keep container tightly closed when not in use.
- Ground/bond container and receiving equipment.

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Section 2 Hazards Identification continued

Do not breathe fumes or vapors.
 Wash skin thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Use only in a well-ventilated area.
 Avoid release to the environment.
 Wear protective gloves/protective clothing/eye protection/face protection.

Response

If on skin: Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
 If inhaled: Remove person to fresh air and call doctor/physician if not feeling well.
 If in eyes: Rinse continuously with water for at least 15 minutes.
 Remove contact lenses, if present and easy to do.
 Do NOT induce vomiting.
 If swallowed, immediately call a poison control center or a physician.
 If skin irritation occurs: Get medical advice/attention.
 If eye irritation persists: Get medical advice/attention.
 Take off contaminated clothing and wash before reuse.
 In case of fire, use alcohol resistant foam, dry chemical, carbon dioxide (CO₂) or dry sand to extinguish.

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

Ingredient Name	CAS Number	Weight Concentration %
Proprietary alkyd resin	N/A	10.00 – 20.00
Isopropyl alcohol	67-63-0	10.00 – 20.00
Xylenes (o-, m-, p-isomers)	1330-20-7	10.00 – 20.00
n-Amyl acetate	628-63-7	10.00 – 20.00
Nitrocellulose	9004-70-0	5.00 – 10.00
Toluene	108-88-3	5.00 – 10.00
2-Methylbutyl acetate	624-41-9	5.00 – 10.00
Naphtha, petroleum, hydrotreated light	64742-49-0	1.00 – 5.00
Diisononyl phthalate	28553-12-0	1.00 – 5.00
Ethylbenzene	100-41-4	1.00 – 5.00
2-Butoxyethanol	111-76-2	1.00 – 5.00
2-Pentanone, 4-methyl	108-10-1	1.00 – 5.00

Section 4 First Aid Measures

If inhaled

Move person into fresh air. If not breathing, give artificial respiration.
 Consult doctor if symptoms persist.

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Section 4 First Aid Measures continued

In case of skin contact

Wash off with soap and plenty of water. If skin irritation continues, consult a doctor.

In case of eye contact

Remove contact lenses, if worn. Flush opened eyes thoroughly with water for several minutes. If irritation persists, get medical assistance.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Do not induce vomiting. Call for medical help immediately.

Note to physician

Treat symptomatically

Section 5 Fire-Fighting Measures

Suitable extinguishing media

Use alcohol resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating and in case of fire.

Hazardous combustion products

Carbon oxides. Can form explosive vapor-air mixtures. Vapors are heavier than air and may spread along floors. Vapors may travel considerable distance to source of ignition and flash back.

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Section 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Do not breathe vapors.

Avoid contact with skin, eyes and clothing

Remove all sources of ignition.

Ensure adequate ventilation.

Remove all non-essential people from the area.

Wear personal protection, see Section 8.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Ensure adequate ventilation.

Absorb with liquid binding material (sand, diatomite, acid binders, universal binders, sawdust).

Sweep up and shovel, using non-sparking tools.

Keep in suitable, closed containers for disposal.

Dispose of collected material according to regulations

Section 7 Handling and Storage

Precautions for safe handling

Use normal precautions when handling flammable materials.

Do not breathe fumes or vapor. Do not allow material to contact skin.

Provide appropriate exhaust ventilation.

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Section 7 Handling and Storage continued

Conditions for safe storage, including any incompatibilities

Store in cool, dry conditions in sealed containers. Storage temperature 10-50°C.
 Protect from humidity and water. Do not heat this material above the flash point.
 Keep away from flame. Do not store with oxidizing or acidic materials.

Section 8 Exposure Controls/Personal Protection

Components with workplace control parameters

Ingredient	OSHA		ACGIH	
	PEL	TWA	STEL	
Isopropyl alcohol	400 ppm	200 ppm	400 ppm	
Xylenes (o-, m-, p-isomers)	100 ppm	100 ppm	150 ppm	
n-Amyl acetate	100 ppm	50 ppm	100 ppm	
Nitrocellulose	Not established	Not established	Not established	
Toluene	200 ppm	20 ppm	Not established	
2-Methylbutyl acetate	Not established	50 ppm	100 ppm	
Naptha, petroleum, hydrotreated light	Not established	Not established	Not established	
Diisononyl phthalate	Not established	Not established	Not established	
Ethylbenzene	100 ppm	20 ppm	Not established	
2-Butoxyethanol	50 ppm	20 ppm	Not established	
2-Pentanone, 4-methyl	100 ppm	20 ppm	75 ppm	

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

Use safety glasses equipped with side shields. If splashes are likely to occur, wear goggles.

Hand and skin protection

Wear Neoprene or butyl rubber gloves. Protective gloves must be impermeable.

Replace gloves at the first signs of wear.

Prevent skin contact when handling material.

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.

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.

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Section 9 Physical and Chemical Properties

Appearance	Clear liquid
Odor	Solvent
Odor Threshold	No data available
pH	Not applicable
Melting point	Not applicable
Freezing point	Not applicable
Boiling range	>105°F (>40.5°C)
Flash point	43°F (6°C)
Evaporation rate	No data available
Lower explosion limit	1.00
Vapor pressure	17.3 mmHg
Vapor density	2.5
Specific gravity	0.936
Water solubility	Negligible
Coefficient: n-octanol/water	No data available
Auto-ignition temperature	338°F (170°C)
Decomposition temperature	Not determined
Viscosity (FORD4)	110 – 125 seconds
% Volatile	62

Section 10 Stability and Reactivity

Reactivity	No data available
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Hazardous polymerization will not occur
Conditions to avoid	Heat and open flames
Incompatible materials	Oxidizing agents, peroxides
Hazardous decomposition	Thermal oxidative decomposition can produce carbon monoxide and carbon dioxide.

Section 11 Toxicological Information

Information on toxicological effects

Dermal Toxicity (mixture)	LD50: 3,684 mg/kg
Inhalation Toxicity (mixture)	LC50: 67 mg/L
Oral Toxicity (mixture)	LD50: 4,457 mg/kg

Effects of overexposure

Carcinogenicity: The following chemical comprise 0.1% or more of this mixture and are listed and/or classified as carcinogens or potential carcinogens by NTP, IARC, OSHA, or ACGIH.

CAS Number	Ingredient	Carcinogen Rating
100-41-4	Ethylbenzene	IARC: Possible human carcinogen OSHA: listed
64742-49-0	Naphtha, petroleum, hydrotreated light	EU REACH: Present (P)
108-10-1	2-Pentanone, 4-methyl-	IARC: Possible human carcinogen OSHA: listed

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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 product should not be allowed to enter drains, water courses, or the soil. Use safety containers for disposal. Contact a licensed waste management company for detailed recommendations. Follow applicable Federal, state, and local regulations.

Section 14 Transport Information

DOT: Shipping Name: Paint
Hazard Class: 3
ID No.: UN 1263
Packing Group: II

IATA: Shipping Name: Paint
Hazard Class: 3
ID No.: UN 1263
Packing Group: II


IMDG: Shipping Name: Paint
Hazard Class: 3
ID No.: UN 1263
Packing Group: II

Section 15 Regulatory Information

US Federal Regulations

CERCLA/SARA – Hazardous Substances and Reportable Quantities: No components listed
 CERCLA/SARA – Section 313 – Emission Reporting: No components listed
 CERCLA/SARA – Section 302 – Extremely Hazardous Substances: No components listed
 CERCLA/SARA 311/312 Codes: Chronic Health Hazard, Fire Hazard
 TSCA Inventory Status: All ingredients listed on TSCA inventory requirements

California Proposition 65

WARNING:  This product can expose you to chemicals including Toluene and Ethylbenzene, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Canada

DSL (Canadian Domestic Substance List): All components listed

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.