

**Section 1 Identification**

**Product identifiers**

Product name: Freeman 90-1 White 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 (CO<sub>2</sub>) 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
Titanium dioxide	13463-67-7	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	5.00 – 10.00
Nitrocellulose	9004-70-0	5.00 – 10.00
2-Methylbutyl acetate	624-41-9	5.00 – 10.00
Toluene	108-88-3	1.00 – 5.00
Naphtha, petroleum, hydrotreated light	64742-49-0	1.00 – 5.00
2-Pentanone, 4-methyl	108-10-1	1.00 – 5.00
Ethylbenzene	100-41-4	1.00 – 5.00
Diisononyl phthalate	28553-12-0	1.00 – 5.00
2-Butoxyethanol	111-76-2	1.00 – 5.00
Isopropyl acetate	108-21-4	1.00 – 5.00
n-Butyl acetate	123-86-4	1.00 – 5.00

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**Section 4 First Aid Measures**

**If inhaled**

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

Consult doctor if symptoms persist.

**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

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**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.

**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
Titanium dioxide	15 mg/m <sup>3</sup> (total dust)	10 mg/m <sup>3</sup>	Not established
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			
2-Methylbutyl acetate	Not established	50 ppm	100 ppm
Toluene	200 ppm	20 ppm	Not established
Naptha, petroleum, hydrotreated light	Not established	Not established	Not established
2-Pentanone, 4-methyl	100 ppm	20 ppm	75 ppm
Ethylbenzene	100 ppm	20 ppm	Not established
Diisononyl phthalate	Not established	Not established	Not established
2-Butoxyethanol	50 ppm	20 ppm	Not established
Isopropyl acetate	250 ppm	100 ppm	200 ppm
n-Butyl acetate	150 ppm	150 ppm	200 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.

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Section 8 Exposure Controls/Personal Protection continued

**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

<b>Appearance</b>	White liquid
<b>Odor</b>	Solvent
<b>Odor Threshold</b>	No data available
<b>pH</b>	Not applicable
<b>Melting point</b>	Not applicable
<b>Freezing point</b>	Not applicable
<b>Boiling range</b>	>105°F (>40.5°C)
<b>Flash point</b>	43°F (6°C)
<b>Evaporation rate</b>	No data available
<b>Lower explosion limit</b>	1.00
<b>Vapor pressure</b>	16.6 mmHg
<b>Vapor density</b>	2.6
<b>Specific gravity</b>	1.027
<b>Water solubility</b>	Negligible
<b>Coefficient: n-octanol/water</b>	No data available
<b>Auto-ignition temperature</b>	338°F (170°C)
<b>Decomposition temperature</b>	Not determined
<b>Viscosity (FORD4)</b>	105 - 115 seconds
<b>% Volatile</b>	59

Section 10 Stability and Reactivity

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

Section 11 Toxicological Information

**Information on toxicological effects**

<b>Inhalation Toxicity (mixture)</b>	LC50: 75 mg/L
<b>Oral Toxicity (Isopropyl alcohol)</b>	LD50: 1,870 mg/kg (Rat)
<b>Dermal Toxicity (Isopropyl alcohol)</b>	LD50: 4,059 mg/kg (Rabbit)

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**Section 11 Toxicological Information** continued

**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
13463-67-7	Titanium dioxide	NIOSH: Potential occupational carcinogen IARC: Possible human carcinogen OSHA: listed

**Section 12 Ecological Information**

<b>Toxicity</b>	No data available
<b>Persistence and degradability</b>	No data available
<b>Bioaccumulative potential</b>	No data available
<b>Mobility in soil</b>	No data available
<b>Results of PBT &amp; vPvB assessment</b>	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

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**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](http://www.P65Warnings.ca.gov).

**Canada**

DSL (Canadian Domestic Substance List): All components listed

**Section 16 Other Information**

**Disclaimer**

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