

**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 & Supply Company

1101 Moore Road, Avon, OH 44011

Phone (440) 934-1902

Email [contactus@freemansupply.com](mailto:contactus@freemansupply.com)

**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:** Obtain special instructions before use.

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

Keep away from heat/sparks/open flames/hot surfaces – No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wash thoroughly after handling.

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

Use personal protective equipment as required.

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### Section 2 Hazards Identification continued

**Response:** Take off contaminated clothing and wash before reuse.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

IF ON SKIN: Wash with soap and water.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

If skin irritation occurs: Get medical advice/attention.

IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. IF exposed or concerned: Get medical advice/attention.

In case of fire: Use alcohol resistant foam, dry chemical, carbon dioxide (CO<sub>2</sub>), dry sand for extinction

**Storage:** Store locked up. 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 %
Isopropyl alcohol	67-63-0	10.00 - 20.00
Proprietary alkyd resin	N/A	10.00 - 20.00
Xylenes (o-, m-, p-isomers)	1330-20-7	10.00 - 20.00
Nitrocellulose	9004-70-0	5.00 - 10.00
n-Amyl acetate	628-63-7	5.00 - 10.00
Methyl ethyl ketone	78-93-3	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:** Immediately supply fresh air. Keep patient in restful and comfortable position for breathing. If required provide artificial respiration, although this may be dangerous. Consult doctor if symptoms persist.

**In case of skin contact:** Remove contaminated clothing and shoes. Immediately wash with water and soap, rinse thoroughly. If skin irritation continues, consult a doctor.

**In case of eye contact:** Immediately rinse opened eye(s) for several minutes under running water. Use lukewarm water if possible. Remove contact lenses if worn. Get medical attention.

**If swallowed:** Immediately get medical attention. Call a poison center or physician. Rinse out mouth and then drink small amounts of water. Do not induce vomiting as this may be dangerous. Aspiration hazard if swallowed, can enter lungs and cause damage. If vomiting occurs, the head should be kept low to avoid vomit entering the lungs. Maintain an open airway.

**Note to physician:** Treat symptomatically

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**Section 5 Fire-Fighting Measures**

**Extinguishing Media**

Alcohol resistant foam, Fire-extinguishing powder, Carbon dioxide

**Special Hazards Arising from the Substance of Mixture**

Formation of toxic gases is possible during heating or in case of fire. Check flammability in section 2 of this sheet. Mixture in sealed and heated containers may cause explosion hazard.

**Hazardous Combustion Products may include the following**

Carbon oxides. Metal oxide(s). Nitrogen 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**

Clear fire area of unprotected personnel. Containers that are exposed to intense heat should be cooled with water. Avoid spreading burning liquid with the water used for cooling purposes. Do not enter fire area without protective gear. Fight fire from safe distance or a protected location.

**Fire Equipment**

Wear self-contained respiratory protective device. Dispose of fire debris and contaminated firefighting water in accordance with official regulations.

**Section 6 Accidental Release Measures**

**Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away. Keep away from ignition sources. Wear protective clothing. Keep from contacting skin or eyes. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. If any equipment is necessary, ensure that it is non-sparking and electrically protected.

**Environmental precautions**

Do not allow product to reach sewage system or any water source. In case of seepage into the ground inform responsible authorities. Prevent from spreading (e.g. by damming-in or oil barriers). Keep contaminated washing water and dispose of appropriately.

**Methods and materials for containment and cleaning up**

Ensure adequate ventilation. Absorb with liquid binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste. Do not flush with water or aqueous cleansing agents. Send for recovery or disposal in suitable receptacles according to local, State and Federal regulations.

**Section 7 Handling and Storage**

**Precautions for safe handling**

Apply proper ventilation, possibly combined with local exhaust. Do not eat, smoke or drink during use. For personal protection see Section 8. Keep away from sources of ignition. Keep material out of reach of children. Use only explosion proof equipment. Wash thoroughly after handling.

**Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke. Protect against electrostatic charges by bonding and grounding product containers before and during material transfers. Keep respiratory protective device available.

**Conditions for safe storage, including any incompatibilities**

Keep away from sources of ignition - no smoking. Store in a cool, well-ventilated place. Keep in original, closed packaging. Comply with governmental regulations. Keep container tightly closed. Store out of direct sunlight, between 40°F and 90°F.

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### Section 8 Exposure Controls/Personal Protection

#### Components with workplace control parameters

Ingredient	OSHA Exposure Limits	ACGIH Exposure Limits	
	TWA	TWA	STEL
Isopropyl alcohol	400 ppm; 980 mg/m <sup>3</sup>	200 ppm	400 ppm
Xylenes (o-, m-, p-isomers)	100 ppm; 435 mg/m <sup>3</sup>	100 ppm	150 ppm
n-Amyl acetate	100 ppm; 525 mg/m <sup>3</sup>	50 ppm	100 ppm
Nitrocellulose	Not established	Not established	Not established
Methyl ethyl ketone	200 ppm; 590 mg/m <sup>3</sup>	200 ppm	300 ppm
Toluene	200 ppm	20 ppm	Not established
2-Methylbutyl acetate	Not established	50 ppm	100 ppm
Ethylbenzene	100 ppm; 435 mg/m <sup>3</sup>	20 ppm	Not established
Diisononyl phthalate	Not established	Not established	Not established
2-Butoxyethanol	50 ppm; 240 mg/m <sup>3</sup>	20 ppm	Not established
2-Pentanone, 4-methyl	100 ppm; 410 mg/m <sup>3</sup>	20 ppm	75 ppm

#### Appropriate engineering controls

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910 .94). Use local exhaust at filling zones and where leakage and dust formation is probable. Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits. Eyewash stations and safety showers should be readily available in use and handling areas.

#### Personal protective equipment (PPE)

**Eye/face protection:** Avoid contact with eyes. Wear goggles if there is a likelihood of contact with eyes. (Consult your safety equipment supplier.) Contact lenses pose a special hazard; soft lenses may absorb irritants and all lenses concentrate them.

**Hand and skin protection:** Protective gloves are required for prolonged or repeated contact. Wear resistant gloves such as natural rubber, neoprene, buna N or nitrile. An apron should be worn to avoid skin contact. (Consult your safety equipment supplier.)

**Respiratory protection:** In outdoor or open areas use (NIOSH/MSHA approved) mechanical filter respirator to remove solid airborne particles of overspray during spray application. In restricted ventilation areas use (NIOSH/MSHA approved) chemical-mechanical filters designed to remove a combination of particulate and gas and vapor. In confined areas use (NIOSH/MSHA approved) airline type respirators or hoods. Respiratory protection may also be necessary in any later manufacturing operations in which the product may become airborne in the form of vapor or dust.

#### 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**

<b>Appearance</b>	Clear 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>	>93°F (>34°C)
<b>Flash point</b>	0°F (-18°C)
<b>Evaporation rate</b>	No data available
<b>Lower explosion limit (LEL)</b>	1.00
<b>Vapor pressure</b>	29.3 mmHg
<b>Vapor density</b>	No data available
<b>Specific gravity</b>	0.936
<b>Weight per gallon</b>	7.81 lb./gal. at 77°F (25°C)
<b>Water solubility</b>	Negligible
<b>Coefficient: n-octanol/water</b>	No data available
<b>Auto-ignition temperature</b>	No data available
<b>Decomposition temperature</b>	Not determined
<b>Viscosity (FORD4)</b>	105 – 115 seconds
<b>VOC (as supplied)</b>	5.22 lb./gal.
<b>VOC (EPA calculation)</b>	5.30 lb./gal.

**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 decomposition can produce toxic materials: carbon monoxide, carbon dioxide, and various hydrocarbons.

**Section 11 Toxicological Information**

**Information on toxicological effects**

<b>Dermal Toxicity (mixture)</b>	LD50:3,525 mg/kg
<b>Inhalation Toxicity (mixture)</b>	LC50: 66 mg/L
<b>Oral Toxicity (mixture)</b>	LD50: 4,364 mg/kg

**Target organs**

Blood, eyes, kidneys. liver, central nervous system, skin, respiratory system

**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**

<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**

**Waste treatment methods**

The product should not be allowed to enter drains, water courses, or the soil. Disposal of this product and any by-products must at all times comply with local, state and Federal regulations for hazardous wastes. All entities that store, transport or handle hazardous waste must take the necessary measures to prevent risks of pollution, release into the environment or damage to people and animals.

**Contaminated packaging**

Waste packaging should be recycled. Care should be taken when handling emptied containers that have not been cleaned. Empty containers retain some product residues. Vapor from that residue may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers.

**Section 14 Transport Information**

**DOT/IATA/IMDG/TDG**

**UN Number:** UN1263  
**Proper Shipping Name:** Paint  
**Hazard Class:** 3  
**Packing Group:** II

**Section 15 Regulatory Information**

**Inventory Status**

USA TSCA (Toxic Substance Control Act): All ingredients listed.  
 Canada DSL (Domestic Substance List): All components listed

**U.S. Federal Regulations**

CERCLA Hazardous Substances, Reportable Quantity (RQ):


Xylene (mixed isomers)	1330-20-7	100 lb.	12.07%
Amyl acetate	628-63-7	5,000 lb.	9.95%
Methyl ethyl ketone	78-93-3	5,000 lb.	7.94%
Toluene	108-88-3	1,000 lb.	5.00 – 10.00%
Ethylbenzene	100-41-4	1,000 lb.	2.97%
Methyl isobutyl ketone	108-10-1	5,000 lb.	1.19%

EPCRA, Section 302 – Extremely Hazardous Substances (EHS): No components listed

EPCRA, Section 313 – Toxic Release Inventory (TRI) Chemicals:

Xylene (mixed isomers), Toluene, Ethylbenzene, and Methyl isobutyl ketone

**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).

**Section 16 Other Information**

**Disclaimer**

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