

Section 1 Identification

Product identifiers

Product name: Freeman 90-1 Red Pattern Coating

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

Identified uses: Pattern Coating

Industrial Use Only

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

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.

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Section 2 Hazards Identification continued

Ground/bond container and receiving equipment.
 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 |
| n-Amyl acetate | 628-63-7 | 10.00 – 20.00 |
| Xylenes (o-, m-, p-isomers) | 1330-20-7 | 10.00 – 20.00 |
| Nitrocellulose | 9004-70-0 | 10.00 – 20.00 |
| 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 |
| Ethylbenzene | 100-41-4 | 1.00 – 5.00 |
| 1-Naphthalenesulfonic acid, 2-[(2-hydroxy-1-naphthalenyl) azo]-, barium salt (2:1) | 1103-38-4 | 1.00 – 5.00 |
| Diisononyl phthalate | 28553-12-0 | 1.00 – 5.00 |
| 2-Butoxyethanol | 111-76-2 | 1.00 – 5.00 |
| 2-Pentanone, 4-methyl | 108-10-1 | 1.00 – 5.00 |
| Isopropyl acetate | 108-21-4 | 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.

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. Mixture in sealed and heated containers may cause explosion hazard.

Hazardous combustion products

Carbon oxides, metal oxides, 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

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 to reach sewer system or any water source.

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.
 Do not eat, smoke, or drink during use. Keep out of reach of children.
 Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Store in cool, dry conditions in sealed containers. Store out of direct sunlight.
 Storage temperature 40-90°F. 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 | |
| n-Amyl acetate | 100 ppm | 50 ppm | 100 ppm | |
| Xylenes (o-, m-, p-isomers) | 100 ppm | 100 ppm | 150 ppm | |
| Nitrocellulose | Not established | Not established | Not established | |
| Methyl ethyl ketone | 200 ppm | 200 ppm | 300 ppm | |
| 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 | |
| Ethylbenzene | 100 ppm | 20 ppm | Not established | |
| 1-Naphthalenesulfonic acid, 2-[(2-hydroxy-1-naphthalenyl)azo]-, barium salt (2:1) | Not established | Not established | Not established | |
| Diisononyl phthalate | Not established | Not established | Not established | |
| 2-Butoxyethanol | 50 ppm | 20 ppm | Not established | |
| 2-Pentanone, 4-methyl | 100 ppm | 20 ppm | 75 ppm | |
| Isopropyl acetate | 250 ppm | 100 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.

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Section 8 Exposure Controls/Personal Protection continued

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.

Section 9 Physical and Chemical Properties

| | |
|--------------------------------------|--------------------|
| Appearance | Red liquid |
| Odor | Solvent |
| Odor Threshold | No data available |
| pH | Not applicable |
| Melting point | Not applicable |
| Freezing point | Not applicable |
| Boiling range | 34 to 238°C |
| Flash point | 43°F (6°C) |
| Evaporation rate | No data available |
| Lower explosion limit | No data available |
| Vapor pressure | 31.8 mmHg |
| Vapor density | No data available |
| Specific gravity | No data available |
| WPG | 7.91 @ 77°F (25°C) |
| Water solubility | Negligible |
| Coefficient: n-octanol/water | No data available |
| Auto-ignition temperature | No data available |
| Decomposition temperature | Not determined |
| Viscosity (FORD4) | No data available |
| Coating VOC (as supplied) | 5.32 lb/gal |
| Coating VOC (EPA calculation) | 5.35 lb/gal |

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, carbon dioxide, and various hydrocarbons |

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Section 11 Toxicological Information

Information on toxicological effects

| | |
|--------------------------------------|-------------------|
| Inhalation Toxicity (mixture) | LC50: 71 mg/L |
| Oral Toxicity (mixture) | LD50: 4,755 mg/kg |
| Dermal Toxicity (mixture) | LD50: 4,386 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 |

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 |

Component Ecotoxicity

n-Amyl acetate 96 Hr LC50 Lepomis macrochirus: 650 mg/L [static]

Section 13 Disposal Considerations

Waste Treatment Methods

Must not be disposed of together with household garbage.
Do not allow product to reach sewage system.
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.

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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:

1330-20-7 Xylenes (o-, m-, p- isomers) 10 - 20%

100-41-4 Ethylbenzene 1.0 - 5%


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.

Previous Revision: August 31, 2018

Date of Preparation: May 4, 2020