

Section 1 Identification

Product identifiers

Product name: TUF-CARV Pine

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

Identified uses: Polyester Repair Paste For Industrial Use Only

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

24 Hour Emergency Number

CHEMTREC (800) 424-9300

Section 2 Hazards Identification

Classification by the OSHA Hazard Communication Standard (29 CFR 1910.1200) and Label Elements

Flammable Liquids, Category 3

Acute Toxicity (Inhalation), Category 4

Skin Irritation, Category 2

Eye Irritation, Category 2A

Carcinogenicity, Category 2

Reproductive Toxicity, Category 2

Specific Target Organ Toxicity (Single Exposure), Category 3

Specific Target Organ Toxicity (Repeated Exposure), Category 1



Danger

Hazard Statements

Flammable liquid and vapor.

Harmful if inhaled.

Causes serious eye irritation.

Causes skin irritation.

Suspected of causing cancer.

Suspected of damaging the unborn child.

May cause respiratory irritation.

Causes damage to organs through prolonged or repeated exposure (hearing organs, kidneys).

Precautionary Statements

Prevention: Obtain special instructions before use.

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

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

Keep away from heat, sparks and hot surfaces. - No smoking.

Ground/bond container and receiving equipment.

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

Keep container tightly closed.

Use only outdoors or in a well-ventilated area.

Use only non-sparking tools. Take precautionary measures against static discharge.

Do not breathe vapor or mist.

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

Wash hands thoroughly after handling.

Section 2 Hazards Identification continued

Response: Get medical attention if you feel unwell.

IF exposed or concerned: Get medical attention.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Call a POISON CENTER or physician if you feel unwell.

In case of fire: Use dry chemical, CO₂, water spray (fog) or foam.

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

IF exposed or concerned: Get medical advice/attention.

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

Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention.

IF IN EYES: Rinse cautiously with water for several minutes.

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

If eye irritation persists: Get medical attention.

Collect spillage.

Storage: Store locked up. Store in a well-ventilated place. Keep cool. Keep container tightly closed.

Disposal: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified (HNOC) or not covered by GHS

None known

Section 3 Composition/Information on Ingredients

Mixture

Ingredient Name	CAS Number	Concentration (%)
Polyester resin	Proprietary	10-30
Styrene monomer	100-42-5	10-30
Talc	14807-96-6	10-30
Titanium dioxide	13463-67-7	0.5-2.5
N,N-Dimethylaniline	121-69-7	<0.5
Quartz silica	14808-60-7	<0.5

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 the victim to a safe area as soon as possible. Allow the victim to rest in a well-ventilated area. If breathing is difficult, give oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

In Case of Skin Contact: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. If irritation persists, seek medical attention. Wash contaminated clothing before reuse. Clean shoes thoroughly before reuse.

In Case of Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Use of buffered baby shampoo will aid in removal. If irritation persists, get medical attention.

If Swallowed: Wash out mouth with water. Remove dentures if any. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Seek immediate medical attention

Section 4 First-Aid Measures continued

Most important symptoms and effects of over-exposure, both acute and delayed

Eye Contact: Adverse symptoms may include the following: pain or irritation, watering, redness.

Inhalation: Adverse symptoms may include the following: respiratory tract irritation, coughing.

Skin Contact: Adverse symptoms may include the following: irritation, redness.

Ingestion: Adverse symptoms may include the following: Irritating to mouth, throat and stomach.

Indication of any immediate medical attention and special treatment needed

Notes to physician: Treat symptomatically.

Section 5 Fire-Fighting Measures

Suitable extinguishing media

Use dry chemical, carbon dioxide, water spray (fog), or alcohol-resistant foam.

Unsuitable extinguishing media

Do not use water jet.

Special hazards arising from the chemical

Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products

During combustion, decomposition products may include: carbon dioxide, carbon monoxide, sulfur oxides, halogenated compounds, metal oxide/oxides

Special protective actions and equipment for fire-fighters

Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

Section 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers. Keep tightly closed.

Dispose of via a licensed waste disposal contractor.

Section 7 Handling and Storage

Precautions for safe handling

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Segregate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8 Exposure Controls/Personal Protection

Components with Occupational Exposure Limits

Ingredient	OSHA PEL		ACGIH	
	TWA 8 hr.	CEIL	TWA 8 hr.	STEL 15 min.
Styrene	100 ppm	200 ppm	10 ppm	20 ppm
N,N-Dimethylaniline	5 ppm	Not established	5 ppm	10 ppm

Appropriate Engineering Controls

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Personal Protective Equipment

Eye/Face Protection: Use safety eyewear complying with an approved standard when a risk assessment indicates this is necessary. Vented goggles are recommended.

Hand Protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body Protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory Protection: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

General Hygienic Practices

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Ensure that eyewash stations and safety showers are close to the workstation location. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Section 9 Physical and Chemical Properties

Appearance	Light tan paste
Odor	Aromatic, styrene
Odor Threshold	No data available
pH	No data available
Melting Point	No data available
VOC Content	1.13 lb./gallon
Initial boiling point & boiling range	No data available
Flash Point	35°C (95°F)
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability	No data available
Vapor Pressure	No data available
Vapor density	No data available
Relative density (g/cc)	1.10±0.05
Water Solubility	Negligible
Coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Viscosity	No data available
% Volatile	10-15%

Section 10 Stability and Reactivity

Reactivity

No data available

Chemical Stability

Stable under recommended storage conditions

Possibility of Hazardous Reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to Avoid

Avoid all possible sources of ignition (spark or flame).

Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

Incompatible Materials

Oxidizing agents

Hazardous Decomposition Products

Thermal oxidative decomposition can produce carbon monoxide and carbon dioxide.

Section 11 Toxicological Information

Information on toxicological effects

Acute toxicity of components

Ingredient	Result	Species	Dose	Exposure
Styrene	LD50 Oral	Rat	2,650 mg/kg	4 hours
	LC50 Inhalation Vapor	Rat	11,800 mg/m ³	
N,N-Dimethylaniline	LD50 Dermal	Rabbit	1,770 mg/kg	
	LD50 Oral	Rat	951 mg/kg	

Skin corrosion/irritation

Causes skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation

Respiratory or skin sensitization

May cause sensitization

Section 11 Toxicological Information

Germ cell mutagenicity	No data available
Carcinogenicity	IARC: Group 2A: Probably carcinogenic to humans (Styrene) NTP: Reasonably Anticipated to be a Human Carcinogen (Styrene).
Mutagenicity	No known significant effects or critical hazards
Reproductive Toxicity	Suspected of damaging fertility or the unborn child
Specific Target Organ Toxicity - Single Exposure	Possible respiratory tract irritation
Specific Target Organ Toxicity - Repeated Exposure	A study of long-term effects of workers exposed to styrene levels in the range of 25-35 ppm, 8 hour TWA, indicated a possible mild hearing loss.
Aspiration Hazard	No known effect

Section 12 Ecological Information

Toxicity	No data available on product Acute EC50 78000 µg/l, Skeletonema costatum, 96 hours (Styrene)
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

Use safety containers for disposal. Contact a licensed contractor for detailed recommendations. Follow applicable Federal, State, and local regulations.

Section 14 Transport Information

DOT

UN number: UN3269
Shipping Name: Polyester Resin Kit
Hazard Class: 3
Packing Group: III
Label: ...Consumer Commodity
 ORM-D (gal.)
 Flammable Class 3 (3 gal.)
 Limited Quantity for shipments under 1.3 gal.



Section 15 Regulatory Information

Inventories

United States TSCA Inventory Status: All ingredients are listed or exempted.

US Federal Regulations

SARA 311/312 Codes: Refer to Section 2 for appropriate hazard categories
 SARA 313 Toxic Chemicals (40 CFR 372.65): Styrene 100-42-5, CERCLA RQ – 1000 lb.

US State Regulations

California Proposition 65: **WARNING:** This product can expose you to chemicals including Styrene, which is known to the State of California to cause cancer. 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 Issue: June 1, 2015

Date of Previous Revision: May 22, 2018