



MATERIAL SAFETY DATA SHEET

Material Safety Data Sheet – OSHA 174

May be used to comply with OSHA's Hazard communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

US Department of Labor

Occupational Safety and Health Administration (Non-Mandatory Form) Form Approved OMB No. 1218-0072

Manufacturer: S.T.A.R., INC.
1150 Milepost Drive
Columbus, Ohio 43228

Emergency Phone No. CHEM-TEL 800-255-3924
Information Phone No. 614-870-0744
Effective Date 07/02/02
Supersedes Date -

SECTION I - IDENTIFICATION

Product Name: STAR RUST ARREST, Specialty Latex Coating.
Chemical Family - Specialty Chemicals and Refined Coal Tar Pitch emulsion
Chemical Name - Proprietary Chemicals and Refined Coal Tar Pitch.
Prepared by - G.C. Dubey

H.M.I.S.
Health = 1
Fire = 1
Reactivity = 0

SECTION II- INGREDIENTS

Ingredients	CAS NO.	WT%	Exposure Limits	
			OSHA PEL	ACGIH TLV
Hazardous Ingredients				
Coal Tar Pitch	65996-93-2	11-12	0.2 mg/m3 (Volatiles)	0.2 g/m3 (Volatiles)
Listed in SARA Title III, Section 313- No.				
STEL - N/A*				
LC 50 - N/A				
LD 50 - N/A				
Other Ingredients				
Water	7732-18-5	53-54	N/A	N/A
Listed in SARA Title III, Section 313 - No.				
STEL - N/A				
LC 50 - N/A				
LD 50 - CTI OVER 320,000				
Acrylic Latex/Specialty	N/A	35-37	N/A	N/A
Chemicals				
Listed in SARA Title III, Section 313 - No.				
STEL - N/A				
LC 50 - N/A				
LD 50 - N/A				

Ingredients total weight % are below 100 % only if all other unlisted ingredients are not considered hazardous by any federal (OSHA, WHMIS,SARA), any state or province or local Right-To-Know regulations.



SECTION III - PHYSICAL DATA

<u>Boiling Point</u>	<u>Vapor Pressure (mm Hg)</u>	<u>Vapor Density (Air=1)</u>	<u>Appearance</u>
Over 212 °F	approx. 25	1	Black liquid with tar and latex Odor.
<u>Evaporation Rate (Water=1)</u>	<u>Specific Gravity</u>	<u>% Volatile</u>	<u>Freezing Point</u>
1	by wt. 1.05 - 1.1	52 - 55	32 °F / 0 °C
<u>Miscibility with Water</u>	<u>Threshold Odor ppm-</u>	<u>pH</u>	<u>Water/Oil Dist Coeff.</u>
Infinite	N/A	6 - 7.5	1/1

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

<u>Flammability Classification</u>	<u>Flash Point (method used)</u>	<u>Flammable Limits</u>	
N/A	N/A	LEL	UEL
Combustion Products CO, CO2, Hydrocarbons	Extinguishing Media Foam, Dry Chemical, CO2	N/A	N/A

Unusual Fire and Explosion Hazards: Containers may rupture due to steam pressure build up when exposed to intense heat. Product may splatter if the temperature exceeds the boiling point of water.

Special Fire Fighting Procedures: Water may be used to Cool exposed containers to prevent pressure build up and possible rupture. Wear self-contained breathing equipment and protective clothing. Water may be ineffective to control fires. If water is used, fog nozzles are preferred.

<u>Explosive Power</u>	<u>Burning Rate</u>	
N/A	N/A	
<u>UN/NA/PIN#</u>	<u>Static Sensitive</u>	<u>Impact Sensitive</u>
N/A	NO	NO

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value - see section II.
Routes Of Entry - Skin, Eyes, Inhalation, Ingestion
Effects Of Overexposure - Acute: YES Chronic: NO

Eyes - May cause eye irritation which in absence of recommended first aid may result in severe burns.
 Skin - May cause irritation or more harmful effects when not washed off or when accentuated by sunlight, skin contact with the product volatiles may result in severe burns.
 Inhalation- May cause nausea and headache. Prolonged and repeated inhalation may be harmful to respiratory system.
 Ingestion- May cause nausea, cramps, vomiting, diarrhea or acute effects. May be fatal in large amounts.

Unusual Chronic Toxicity: May cause cancer of the skin, lungs, kidney and bladder. Prolonged or repeated contact over many years in the absence of good hygiene and personal protection may lead to changes in skin pigmentation and skin tumors.

Carcinogenic: IARC- YES ACGIH- YES

Emergency and First Aid Procedures

Eyes- Immediately flush with plenty of water for 15 minutes, call a physician, if condition persists.
 Skin- Wash thoroughly with plenty of water and soap. Remove and wash contaminated clothing. Consult a physician if irritation persists.
 Inhalation- Move to fresh air, Restore breathing if required. Treat symptomatically. Consult a physician.
 Ingestion- Do not induce vomiting. Seek physician immediately and show M.S.D.S. or label.

SECTION VI - REACTIVITY DATA

<u>Stability</u>	<u>Conditions to Avoid</u>	<u>Incompatibility</u>
Stable	Keep from freezing.	(Materials to Avoid) Strong oxidizing agents.

Hazardous Decomposition Products - May produce fumes when heated to decomposition, as in welding or fire. Fumes may contain CO, CO₂, Hydrocarbons and other products of combustion.

Hazardous Polymerization - Will not occur.

SECTION VII - SPILL OR LEAK PROCEDURES

SARA Title III
 # 302 - No # 304 CERLA - No # 313 - No. RCRA-No.

Steps to be Taken in Case Material is Released or Spilled

Limit spread of leak or spill. Ventilate the area. Avoid falls as the floors may become slippery when the product is spilled. Wear approved respiratory protection. Wear suitable protective clothing, gloves and eye / face protection. Soak up with an inert absorbent material like sand or earth and pick up waste material. Put in a sealed approved container. Keep material out of sewers, drains and bodies of water. The product is not considered a hazardous waste under current federal RCRA requirements.

Reportable Quantity - N/A TPQ (Lb.) - N/A

Regulations - WHMIS, SARA, State and Province.

SECTION VIII - SAFE HANDLING AND PROTECTION INFORMATION

Ventilation: Use local exhaust ventilation to control mists or vapors generated when using this product. Ventilation must be adequate to keep exposure below regulated limits as noted in section II.

Respiratory Protection: Appropriate respiratory protection should be selected by a qualified person if exposure is expected to be excessive.

Protective Gloves: Rubber Gloves, chemically resistant.

Eye Protection: Wear safety glasses, goggles or face shield.

Other Protective Equipment: Wear suitable protective clothing. Remove and wash contaminated clothing before re-use. A source of clean water shall be available for washing eyes and skin.

Hygienic Practices: Wash hands before eating, smoking or using washrooms. Smoke only in designated areas.

SECTION IX - SPECIAL PRECAUTIONS

1. Keep out of reach of children.
2. For professional and industrial use only.
3. Do not handle until manufacturer's safety precautions have been read and understood.
4. Use only with adequate ventilation.
5. Do not take internally.
6. Avoid contact with eyes and skin. Liquid penetrates leather and shoes causing delayed burns.
7. Wash thoroughly after using. Practice safe hygiene principles.
8. Store between 50 - 100 °F. Keep the containers tightly closed after each use.
9. Additional Technical data Sheets and /or M.S.D.S.'s are available upon request.

THE RECOMMENDATIONS AND INFORMATION PROVIDED HEREIN ARE BELIEVED TO BE ACCURATE AS THE DATE HEREOF. HOWEVER, SUCH INFORMATION AND RECOMMENDATIONS ARE PROVIDED WITHOUT WARRANTY OF ANY KIND AND S.T.A.R., INC. DISCLAIMS ALL LIABILITY OR LEGAL RESPONSIBILITY FOR USE AND RELIANCE UPON THE SAME.