

MATERIAL SAFETY DATA SHEET



STAR AVIATOR

SEALCOATING FOR AIRPORT PROJECTS
SPECIFICATION: FAA P-627

Manufacturer:
S.T.A.R., INC.
1400 Walcutt Road.
Columbus, Ohio 43228

Emergency Phone No.
Information Phone No.
Date Of Preparation
Date Supersedes

CHEM-TEL 800-255-3924
800-759-1912
July 24, 2002

SECTION I - IDENTIFICATION

Product Name: STAR AVIATOR- Sealcoating for airport projects.
Chemical Family: - Refined Coal Tar Pitch Emulsion H.M.I.S
Chemical Name: - Proprietary Health = 1
Prepared by: - G.C. Dubey Fire = 1 Reactivity = 1

SECTION II- INGREDIENTS

Ingredients	CAS NO.	WT%	Exposure Limits		
			OSHA PEL	ACGIH TLV	
<u>Hazardous Ingredients</u>					
Coal Tar Pitch	65996-93-2	27-29%	0.2 mg/m3 (Volatiles)	0.2 mg/m3 (Volatiles)	
Listed in SARA Title III, Section 313- No.					
STEL	- N/A*	LC 50	- N/A	LD 50	- N/A
<u>Other Ingredients</u>					
Ethoxylated Amine					1 %
Specialty Polymers	Proprietary	4-5%	N/D	N/D	
Clay	1332-58-7	18-20%	N/A	10mg/m3 (dust)	
STEL	- 5 MG/M3 (DUST)				
LC 50	- N/A		LD 50	- N/A	
Water	7732-18-5	49-50%	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				

* N/A = NOT AVAILABLE OR APPLICABLE
Total weight percentage of all the listed ingredients could be below 100, indicating other unlisted ingredients that are not considered hazardous by any federal (OSHA, WHMIS, SARA), any state or local Right-To-Know Regulations.

SECTION III, PHYSICAL DATA

Boiling Point	Vapor Pressure	Vapor Density	Appearance
Over 212 F	(mm Hg) approx. 25	(Air=1) 1	Dark Brown Liquid with Coal Tar odor.
Evaporation Rate	Specific Gravity	pH	Freezing Point
(Water=1) 1	1.20 - 1.25	7.00-8.00	32 Deg F/ O Deg C
Miscibility	Threshold Odor	Water/Oil Dist Coeff	
Dilutable with water	ppm- N/A	1/1	

SECTION IV- FIRE AND EXPLOSION HAZARD DATA

<u>Flammability Classification</u>	<u>Flash Point</u> (Method used)	<u>Flammable Limits</u>	
N/A	N/A	<u>LEL</u> N/A	<u>UEL</u> N/A
<u>Combustion Products</u>		<u>Extinguishing Media</u>	
CO, CO2, Hydrocarbon compounds		Foam, dry chemical, CO2	

Special Fire Fighting Procedures: Cool exposed containers to prevent steam pressure build up. Wear self-contained breathing equipment.

Unusual Fire and Explosion Hazards: Containers may rupture due to steam pressure build-up.

Explosive Power N/A

Burning Rate N/A

UN/NA/PIN# N/A

Static Sensitive NO

Impact Sensitive NO

SECTION V- HEALTH HAZARD DATA

Threshold Limit Value - 0.2 mg/ m3, coal tar pitch volatiles.

Routes Of Entry- Skin, eyes, inhalation, ingestion.

Effects Of Overexposure - Acute: YES Chronic: YES

Eyes - Overexposure of vapors can cause eye irritation, burning, redness and/or corneal changes, which in absence of recommended first aid may result in severe burns.

Skin - Contact with skin can result in irritation which when accentuated by sunlight may result in photo toxic skin reaction (similar to sunburn). Prolonged and/or repeated contact with the product or volatiles may result in more serious skin disorders including cancer.

Inhalation- The product has very low vapor pressure; therefore, harmful effects are not anticipated. Chronic inhalation overexposure to vapors. Repeated and/or prolonged contact to high levels of vapor concentration may result in respiratory problems, central nervous system (CNS) effects, and cardiovascular collapse.

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.

Inhalation- Move to fresh air, administer oxygen and call 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>	Conditions to Avoid	Incompatibility (Materials to avoid)
Stable	Keep from freezing.	Strong oxidizing agents.

Hazardous Decomposition Products - N/A

Hazardous Polymerization - Will not occur.

Conditions to Avoid -N/A

SECTION VII- SPILL OR LEAK PROCEDURES

SARA Title III # 302 - No

304 -No

313 - No.

RCRA-No.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Ventilate the area. Wear approved respiratory protection. Wear suitable protective clothing, gloves and eye / face protection. Contain and pick up waste material. Put in a sealed approved container. Dispose of in accordance with federal, state, and local regulations.

For Small Spills: Absorb with an inert material and place in containers.

For Large Spills: Contain material and pump into tanks or other suitable containers. Spills over 45 gallons should be reported to national, state and local emergency response agencies. The telephone number for the National Response Center is 800-424-8802. Do not flush into sewers or bodies of water.

WASTE DISPOSAL

This material is not a hazardous waste in either liquid (emulsion) form or as a dried material, according to TCLP (Toxic Characteristic Leaching Procedure) results (EPA method 1311). Recommended disposal by land filling (dry) or incineration shall be selected in accordance with the local, state, and federal regulations.

Reportable Quantity	- N/A		
Regulations	- WHMIS, SARA, State and province.		
Hazardous Waste	- N/A	TPQ (lb.)	- N/A

SECTION VIII- SAFE HANDLING AND PROTECTION INFORMATION

Ventilation: Use local exhaust ventilation to control mists or vapors generated when using this product.

Special- N/A **Other-** N/A

Respiratory Protection: Use only with adequate ventilation. If ventilation is inadequate, wear approved respiratory equipment.

Protective Gloves: Rubber Gloves, chemically resistant.

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

Other Protective Equipment: Wear suitable protective clothing.

Estimated LD50, MG/KG:	N/A	Estimated LC50, PPM:	N/A
Sensitization:	N/A	Irritants:	YES

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.
7. Wash thoroughly after using. Practice safe hygiene principles.
8. Additional Technical Data Sheets and/or M.S.D.S.'s are available upon request.

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