MATERIAL SAFETY DATA SHEET



Manufacturer: Emergency Phone No. CHEM-TEL 800-255-3924

STAR, INC. Information Phone No. 800-759-1912 1400 Walcutt Road. Date Of Preparation July 18, 1996 Columbus, OH 43228 Date Supersedes April 19, 1994

SECTION I- IDENTIFICATION

Product Name: STAR SEAL - ASPHALT PAVEMENT SEALER

Chemical Family- Refined Coal Tar Pitch EmulsionH.M.I.SChemical Name- Proprietary.Health = 1Prepared by- G.C. DubeyFire = 1Reactivity = 1Reactivity = 1

SECTION II- INGREDIENTS

Ingredients	CAS NO.	WT%	Exposure Lin	nits
			OSHA	ACGIH
			PEL	TLV
Hazardous Ingredie	ents			
Coal Tar Pitch	65996-93-2	29-32	0.2 mg/m3	0.2 mg/m3
			(Volatiles)	(Volatiles)
Listed in SARA Title III, Section 313- No.				
STEL	- N/A*			
LC 50	- N/A			
LD 50	- N/A			
Other Ingredients				
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	48-50	N/A	N/A
Listed in SARA Title	e III, Section 313 - No.			
STEL	- N/A			
LC 50	- N/A			
LD 50	- CTI OVER 320,000			
* $N/A = NOT AVAI$	LABLE 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 province or local Right-To-Know Regulations.

SECTION III, PHYSICAL DATA

Boiling Point	Vapor Pressure	Vapor Density	Appearance
	(mm Hg)	(Air=1)	
Over 212 F	approx. 25	1	Brownish or Black Liquid
			coal tar odor.
Evaporation Rate	Specific Gravity	рH	Freezing Point
(Water=1)	-	_	
1	1.10 - 1.30	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

Flammability Classification	Flash Point	Flammable	Flammable Limits	
	(method used)	LEL	UEL	
N/A	N/A	N/A	N/A	
Combustion Products	Extinguishing Media			
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	Burning Rate	
N/A	N/A	
UN/NA/PIN#	Static Sensitive	Impact Sensitive
N/A	NO	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

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

<u>Skin</u> - 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.

<u>Inhalation-</u> 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 possible cardiovascular collapse.

<u>Ingestion-</u> May cause nausea, cramps, vomiting, diarrhea or acute effects.

<u>Unusual Chronic Toxicity:</u> 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.

EMERGENCY FIRST AID PROCEDURES

<u>Eyes-</u> Immediately flush with plenty of water for 15 minutes, call a physician, if condition persists. <u>Skin-</u> Wash thoroughly with plenty of water and soap. If irritation persists, seek medical help. <u>Inhalation-</u> Move to fresh air. If breathing has stopped or is difficult, administer artificial respiration oxygen as needed. Seek medical help.

Ingestion- Do not induce vomiting. Give 1-2 glasses of milk. Seek medical help immediately.

SECTION VI- REACTIVITY DATA

StabilityConditions to AvoidIncompatibilityStableKeep from freezing.(Materials to avoid)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.

WASTE DISPOSAL

<u>This material is not a hazardous waste</u> in either liquid (emulsion) form or as 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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