

MATERIAL SAFETY DATA SHEET

Manufacturer: S.T.A.R., INC. 1400 Walcutt Road Columbus, Ohio 43228	Emergency Phone No. CHEM-TEL 800-255-3924 Information Phone No. 614-870-0744 Effective Date 04/20/2000 Supersedes Date 05/14/98
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SECTION I - IDENTIFICATION

Product Name:	STAR MICRO-PAVE	H.M.I.S
Chemical Family	ASPHALT EMULSION BASED SEALER.	Health = 0
Chemical Name	- Asphalt Emulsion Based Sealcoating.	Fire = 0
Prepared by	- Proprietary	Reactivity = 0
	- G.C. Dubey	

SECTION II - INGREDIENTS

<u>Ingredients</u>	<u>CAS NO.</u>	<u>WT%</u>	<u>Exposure Limits</u>
<u>Hazardous Ingredients</u>			OSHA PEL ACGIH TLV
ASPHALT	8052-42-4	28-30	N/A 5.0 mg/m3 (volatiles) (volatiles))
Listed in SARA Title III, Section 313- No.			
STEL - N/A*			
LC 50 - N/A			
LD 50 - N/A			
BALL CLAY *	1332-58-7	16-19	N/A 5.0 mg/m3 (dust)
* Ball clays contain crystalline silica as quartz (CAS No. 14808-60-7) up to 30% by dry weight depending upon product. OSHA PEL for quartz is 0.1 mg/m3.			
STEL - 5.0 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 III, Section 313 - No.			
STEL - N/A			
LC 50 - N/A			
LD 50 - CTI OVER 320,000			
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</u> (mm Hg)	<u>Vapor Density</u> (Air=1)	<u>Appearance</u>
Over 212 °F	approx. 25	>1.0	Brownish-black, heavy liquid with asphalt odor.
<u>Evaporation Rate</u> (Water=1)	<u>Specific Gravity</u> by wt.	<u>% Volatile</u>	<u>Freezing Point</u>
1	1.1-1.2	48-50%40	32 °F / O °C
<u>Miscibility With Water</u> Coefficient	<u>Threshold Odor</u> ppm	<u>pH</u>	<u>Water/Oil Distribution</u>
Infinite	N/A	7-8	1/1
<u>Pour Point</u>	<u>Cloud Point</u>	<u>Other comments</u>	
N/D	N/D	None additional	

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

<u>Flammability Classification</u>	<u>Flash Point</u> (method used)	<u>Flammable Limits</u>	
HMIS Rating- 0	>200 F /PMCC	LEL N/A	UEL N/A
<u>Combustion Products</u>	<u>Extinguishing Media</u>		
CO, CO2, Hydrocarbons	Foam, Dry Chemicals & CO2.		

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: Cool exposed containers to prevent steam pressure build up. Wear self-contained breathing equipment and protective clothing.

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

SECTION V- HEALTH HAZARD DATA

Threshold Limit Value : 0.1 mg/m³ FOR RESPIRABLE CRYSTALLINE QUARTZ, WHICH IS NOT EXPECTED UNDER NORMAL CONDITIONS, BECAUSE THE PRODUCT IS SUPPLIED AS A WATER BASED COATING WHERE THE RESPIRABLE PARTICLES ARE ENCAPSULATED IN THE ASPHALT BINDER.

Routes Of Entry Skin, eyes, inhalation, ingestion.
Effects Of Overexposure - Acute: NO Chronic: NO

ACUTE

Eyes - May cause eye irritation.

Skin - May cause irritation of skin.

Inhalation - May cause nausea and headache. Prolonged and repeated inhalation may be harmful to respiratory system.

Ingestion - May cause nausea, cramps, vomiting, and /or diarrhea.

Unusual Chronic Toxicity: None Known.

Carcinogenic: IARC- NO ACGIH- NO

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.

Inhalation - Move to fresh air, Restore breathing if required. Treat symptomatically. Consult a physician.

Ingestion - Do not induce vomiting. Immediately drink 1 or 2 glasses of milk. Do not attempt to give anything by mouth to an unconscious person. 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> <u>(materials to avoid)</u>
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 CERLA - 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. The material will suffocate fish until it settles to bottom.

WASTE DISPOSAL

This material is not a hazardous waste 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: Local Exhaust – Recommended to control mists or vapors when using this product.
Mechanical (General) - Recommended
Special: N/A Other: N/A

Respiratory Protection (Specify type): Use only with adequate ventilation. If ventilation is inadequate, wear appropriate respiratory equipment.

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.

Estimated LD50, MG/KG : N/A
Estimated LC50, PPM : N/A
Sensitization: N/A
Irritants : Yes, mild skin & lungs

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.
9. Store between 50 - 100 °F. Keep the containers tightly closed after each use.

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