

**MATERIAL SAFETY DATA SHEET**

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

Emergency Phone No. CHEM-TEL 800-255-3924  
Information Phone No. 614-870-0744  
Date of Preparation 1/15/09  
Supersedes Date -

SECTION I- IDENTIFICATION

**Product Name:** STAR ADVANTAGE-4. Fast Drying, Thickening, Color Enhancing, Water Repelling Additive for Sealcoatings.  
**Chemical Family** - Specialty latex additive based on 100% Acrylic polymer emulsion & specialty chemicals.  
**Chemical Name** - Proprietary. H.M.I.S.  
**Prepared by** - G.C. Dubey Health = 1  
Fire =1  
Reactivity = 1

N/A = Data Not Available N/AP = Not Applicable

SECTION II- INGREDIENTS

<u>Ingredients</u>	<u>CAS NO.</u>	<u>WT%</u>	<u>Exposure Limits (OSHA/ACGIH)</u>	
			<u>PEL</u>	<u>TLV</u>
Water	7732-18-5	59-63	None	None
Polymer	Proprietary	26-30	None	None
Surfactants	Proprietary	1-2	None	None

SECTION III. PHYSICAL DATA

<u>Boiling Point</u>	<u>Vapor Pressure</u>	<u>Vapor Density</u>	<u>Appearance</u>	
	<u>(mm Hg)</u>	<u>(Air=1)</u>		
212-370 °F	25	0.6	Translucent, light yellow colored liquid with latex odor.	
<u>Evaporation Rate</u>	<u>Specific Gravity</u>	<u>% Volatile</u>	<u>Freezing Point</u>	
<u>(Water=1)</u>		<u>by Weight</u>		
1	1.03	approx.. 73%	32 °F / O° C	
<u>Miscibility w/Water</u>	<u>Threshold Odor</u>	<u>pH</u>	<u>VOC gm/liter</u>	<u>VOC</u>
<u>lb/Gal</u>				
Infinite	N/AP	7-8	51	0.43

SECTION IV- FIRE AND EXPLOSION HAZARD DATA

<u>Flammability Classification</u>	<u>Flash Point</u>	<u>Flammable Limits</u>	
	<u>(method used)</u>	<u>LEL</u>	<u>UEL</u>
OSHA- CLASS III B DOT- NOT REGULATED	Over 200 °F	2.6	N/A
<u>Combustion Products</u>	<u>Extinguishing Media</u>		
CO, CO2, Residual Monomer vapor.	Foam, Dry Chemical, 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:** 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/AP	N/AP

SECTION V- HEALTH HAZARD DATA

**Threshold Limit Value** - N/A  
**Routes Of Entry** - Skin, eyes, inhalation, ingestion.  
**Effects Of Overexposure** - Acute: NO Chronic: NO

**ACUTE**

**Eyes** - May cause eye irritation.  
**Skin** - May cause irritation, material is slightly alkaline.  
**Inhalation** - May cause nausea and headache  
**Ingestion** - May cause nausea, cramps, vomiting, diarrhea or acute effects.

**CHRONIC**

No Chronic Toxicity has been established.  
**Medical conditions prone to aggravation by exposure:** None Known.

**Carcinogenic:** IARC- NO NTP- NO OSHA- 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. Consult a physician if irritation persists.  
**Inhalation-** move to fresh air, Restore breathing if required. Treat symptomatically. Consult a physician.  
**Ingestion-** Induce vomiting only if the patient is conscious. Consult a physician or Poison Control Center immediately, treat symptomatically. Show Material Safety Data Sheet (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) None reasonably foreseeable.

**Hazardous Decomposition Products** - May produce fumes when heated to decomposition, as in welding or fire. Fumes may contain CO, CO<sub>2</sub>, 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.

**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 - N/A                                Hazardous Waste - N/A

#### 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. 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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