



# 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

<b>Manufacturer:</b> S.T.A.R., INC.	<b>Emergency Phone No.</b>	<b>CHEM-TEL 800-255-3924</b>
1150 Milepost Dr.	Information Phone No.	614-870-0744
Columbus, Ohio 43228	Date Of Preparation	June 1, 2006
	Date Supersedes	April 18, 2003

## SECTION 1- IDENTIFICATION

<b>Product Name:</b>	<b>STAR BRITE PLUS - LEAD FREE YELLOW TRAFFIC PAINT.</b>		
<b>Chemical Family</b>	- Acrylic polymers, specialty chemicals, solvents.	H.M.I.S	
<b>Chemical Name</b>	- Proprietary.	Health = 3	
<b>Prepared by</b>	- G.C. Dubey	Fire = 2	
		Reactivity = 0	

## SECTION 2- COMPOSITION INFORMATION ON INGREDIENTS

Ingredients	CAS NO.	WT%	Exposure Limits Units	Vapor
Methanol	67-56-1	3	ACGIH TLV	200 ppm( skin) 92 mm
			ACGIH TLV	250 ppm( skin) STEL
			OSHA PEL	200 ppm( skin)mm
			ACGIH TLV	250 ppm( skin) STEL
2-(2-Butoxyethoxy)-ethanol	112-34-5	1	ACGIH TLV	Not established .06 mm
			OSHA PEL	Not Established
Calcium Carbonate	471-34-1	53	ACGIH TLV	10 mg/m3 as Dust
			OSHA PEL	15 mg/m3 Total Dust
			OSHA PEL	5 mg/m3 Respirable fraction
Titanium Dioxide	13463-67-7	3	ACGIH TLV	10 mg/m3 as Dust
			OSHA PEL	10 mg/m3 Total Dust
			OSHA PEL	5 mg/m3 Respirable 0.05 0.05

## SECTION 3, HAZARD INDICATION

### ROUTES OF EXPOSURE;

INHALATION of Vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

### EFFECTS OF OVEREXPOSURE;

EYES: Irritation.

SKIN: Prolonged or repeated exposure may cause irritation.

QUALITY ▲ PERFORMANCE ▲ VALUE ▲ INNOVATION ▲ SERVICE

INHALATION: irritation of upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

SIGNS AND SYMPTOMS OF OVEREXPOSURE: Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: None generally recognized

CANCER INFORMATION: Refer to section 11 for complete discussion.

## SECTION 4, FIRST AID MEASURES

**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 and laundry before next use.

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. Consult a physician immediately or Poison Control Center. Treat symptomatically. Show M.S.D.S. or label.

## SECTION 5- FIRE FIGHTING MEASURES

<u>Flammability Classification</u>	<u>Flash Point</u>	<u>Flammable Limits</u>	
	(method used)	LEL	UEL
Combustible, Flash above 99 F And below 200 F	145 F (PMCC)	0.9	36.5

<u>Combustion Products</u>	<u>Extinguishing Media</u>
CO, CO <sub>2</sub> ,	Alcohol Foam, Dry Chemical, CO <sub>2</sub> ,

### Unusual Fire and Explosion Hazards:

Closed containers may rupture due to steam pressure build up when exposed to intense heat.

Application to hot surfaces requires special precautions.

During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

### Special Fire Fighting Procedures:

Wear self-contained breathing equipment and protective clothing.

Water may be ineffective to control fires. If water is used, fog nozzles are preferred.

Water may be used to cool closed containers to prevent pressure build up and possible auto-ignition or explosion when exposed to extreme heat.

## SECTION 6- SPILL OR LEAK PROCEDURES

### **Steps To Be Taken in Case Material is Released or Spilled**

Remove sources of heat, sparks or open flames. Limit spread of leak or spill. Ventilate the area. 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.

**Waste Disposal Method:** Do not incinerate in closed container. Incinerate in approved facility. The material is considered hazardous waste and shall be disposed of according to all applicable local, state, and federal regulations.

## SECTION 7- SAFE HANDLING AND PROTECTION INFORMATION

STORAGE CATEGORY: DOL Storage Class IIIA

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Contents are COMBUSTIBLE. Keep away from heat and open flame.  
Consult NFPA Code. Use approved Bonding and Grounding procedures.  
Keep containers tightly closed when not in use.  
Transfer only to approved containers with complete and approved labeling.  
Do not take internally.  
Keep out of reach of children

## SECTION 8- EXPOSURE CONTROLS/PERSONAL PROTECTION

### PRECAUTIONS TO BE TAKEN IN USE:

Use only with adequate ventilation.  
Avoid contact with skin and eyes.  
Avoid breathing vapor and spray mist  
Wash hands after use.

This material may contain materials classified as nuisance particulate (listed as "Dust" in Section 2) which may be present at hazardous levels only during sanding and abrading of the dried paint film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup>, 3 mg/m<sup>3</sup> (Respirable fraction), OSHA PEL 15mg/m<sup>3</sup> (total dust)m, 5 mg/m<sup>3</sup> (Respirable fraction).

VENTIATION: Local exhaust is preferable. General exhaust acceptable if the exposure to materials in section 2 is maintained below the applicable exposure limits. Refer to OSHA Standards 1910.107,1910.108  
If personal exposure can not be controlled, wear a properly fitted organic vapor/particulate approved by NIOSH./MSHA for protection against materials in Section 2.

### **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.

Protective Gloves: Rubber Gloves, chemically resistant.

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

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

Intentional misuse by deliberately concentrating or inhaling the contents may be harmful or fatal.

## SECTION 9, PHYSICAL DATA

<u>Boiling Range</u>	<u>Vapor Pressure</u>	<u>Vapor Density</u>	<u>Appearance</u>
	(mm Hg)	(Air=1)	
148 - 448 F	N/A	More Than 1	Bright Yellow liquid with mild latex
<u>Evaporation Rate</u>	<u>Specific Gravity</u>	<u>% Volatile</u>	<u>Freezing Point</u>
	Gm/liter (lb./gal)	by volume	
Slower than ether	1.60 (13.35)	40%	32 Deg F/ O Deg C
<u>Miscibility With Water</u>	<u>pH</u>	<u>VOC</u>	
Miscible	9.5	0.87 lb/gal (104 grams/liter)	Less water and exempt solvents
		0.59 lb/gal (70 grams/liter)	Emitted VOC.

## SECTION 10- REACTIVITY DATA

<u>Stability</u>	<u>Conditions to Avoid</u>	<u>Incompatibility</u>
Stable	Heat, Spark and open Flame.	(Materials to avoid) None special noted.

**Hazardous Decomposition Products:** Carbon Monoxide (CO), Carbon Dioxide (CO<sub>2</sub>)

**Hazardous Polymerization :** Will not occur.

## SECTION 11- HEALTH HAZARD DATA

### CHRONIC HEALTH HAZARDS

**None of the ingredients listed in this product is an IARC, NTP, or OSHA listed carcinogen.**

Prolonged overexposure to solvents listed in Section 2 may cause adverse effects to liver and urinary systems. Reports have associated repeated and prolonged overexposure to solvents with permanent damage to brain and nervous system.

Rates exposed to titanium dioxide dust at 250 mg/m<sup>3</sup> developed lung cancer, however, such exposure levels are not attainable in the workplace.

### TOXICOLOGY DATA

<u>Ingredients</u>	<u>CAS NO.</u>				
Methanol	67-56-1	LC 50	RAT	4 hr.	64000 ppm
		LD 50	RAT	4.hr.	5630 mg/kg
2-(2-Butoxtethoxy)-ethanol	112-34-5	LC 50	RAT	4 hr.	Not available
		LD 50	RAT	4.hr.	5660 mg/kg
Calcium Carbonate	471-34-1	LC 50	RAT	4 hr.	Not available
		LD 50	RAT	4.hr.	Not available
Titanium Dioxide	13463-67-7	LC 50	RAT	4 hr.	Not available
		LD 50	RAT	4.hr.	Not available

## SECTION 12- ECOLOGICAL INFROMATION

No data is available.

## SECTION 13- DISPOSAL CONSIDERTIONS

**Waste Disposal Method:** Waste from this product is not hazardous, as defined under the Resource Conservation and recovery Act (RCRA) 40 CFR 261.

Incinerate in approved facility. Do not incinerate in closed containers. Dispose of according to all applicable local, state, and federal regulations regarding pollution.

REGARDING POLLUTION.

## SECTION 14 TRANSPORT INFORMATION

No data is available

## SECTION 15 REGULATORY INFORMATION

### SARA 313 (40 CFR 372.65C) SUPPLIER NOITIFICATION

CAS NO.	CHEMICAL COMPOUND	% BY WT	% ELEMENT
67-56-1	Methanol	3	-
	Glycol Ethers	1	-

### CALIFORNIA PROPOSITION 65

WARNING- This product contains chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.

### TSCA CERTIFICATRION

All chemicals in this product are listed, or are exempt from listing, on TSCA inventory.

## SECTION 16 OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products regulations (CPR) and the MSDS contains all of the information required by CPR.

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 ANY AND ALL LIABILITY OR LEGAL RESPONSIBILITY FOR USE AND RELIANCE UPON THE SAME.