



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

Manufacturer: S.T.A.R., INC.	Emergency Phone No.	CHEM-TEL 800-255-3924
1150 Milepost Drive	Information Phone No.	614-870-0744
Columbus, Ohio 43228	Date Of Preparation	April 18, 2003
	Date Supersedes	Sept. 18, 1997

SECTION 1- IDENTIFICATION

Product Name: STAR BRITE PLUS TRAFFIC PAINT, FAST-DRYING- SAFETY RED

Chemical Family	- Acrylic polymers, specialty chemicals, solvents.	H.M.I.S
Chemical Name	- Proprietary.	Health = 3
Prepared by	- G.C. Dubey	Fire = 2
		Reactivity = 0

SECTION 2- HAZARDOUS INGREDIENTS

Ingredients	CAS NO.	WT%	Exposure Limits		Vap. Pres. (mm/Hg)
			OSHA PEL	ACGIH TLV	
Methanol	67-56-1	2	200 ppm (skin)	200 ppm (skin)	92
			250 ppm (skin STEL for both)	250 ppm	
Calcium Carbonate	471-34-1	48	15 5 mg/m3 as Respirable Fraction.	10	

SECTION 3- PHYSICAL DATA

Boiling Range	Vapor Pressure	Vapor Density	Appearance
148-213 F	(mm Hg) N/A	(Air=1) MORE THAN 1	Red colored liquid with mild odor.
Evaporation Rate	Specific Gravity	% Volatile	Freezing Point
Slower than ether	1.49	44	32 ° F/ 0 ° C
Miscibility With Water	pH	VOC	
Miscible	9.2	0.81 lb./gal (97 grams/liter), less federally exempt solvents. 0.50 lb./gal (60 grams /liter) Emitted VOC.	

QUALITY ▲ PERFORMANCE ▲ VALUE ▲ INNOVATION ▲ SERVICE

SECTION 4- FIRE AND EXPLOSION HAZARD DATA

<u>Flammability Classification</u>	<u>Flash Point</u> (method used)	<u>Flammable Limits</u>	
		LEL	UEL
Combustible	145 F (PMCC)	6.0	36.5
Flash point above 99 and below 200 F			

<u>Combustion products</u>	<u>Extinguishing Media</u>
CO, CO2	Alcohol Foam, Dry Chemical, CO2,

Unusual Fire and Explosion Hazards: Keep containers tightly closed and away from heat, open flame and sparks. Containers may rupture due to steam pressure build up when exposed to intense heat.

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.

SECTION 5- HEALTH HAZARD DATA

Threshold Limit Value	- See section 2.
Routes Of Entry	- Skin, eyes, inhalation, ingestion.
Effects Of Overexposure	- Irritation of eyes, skin and upper respiratory system.

Eyes- May cause severe irritation.

Skin - May cause irritation and rash.

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

Ingestion- May cause nausea, cramps, vomiting, diarrhea or acute effects. Large dosage may be fatal.

Extreme overexposure may result in unconsciousness and possibly death.

Signs & symptoms of overexposure- headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mist.

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

Medical conditions prone to be aggravated by exposure: None

Carcinogenic: See section 7

SECTION 6- 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- DO NOT INDUCE VOMITTING. Consult a physician immediately or Poison Control Center. Treat symptomatically. Show M.S.D.S. or label.

SECTION 7- TOXICOLOGICAL INFORMATION**Chronic Health Hazards**

None of the ingredients are listed carcinogens.

Prolonged exposure to solvents in section 2 may cause adverse effects to the liver and urinary systems.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

TOXICOLOGY DATA

Ingredients	CAS NO.	RAT	4 HR.	Comments
Methanol	67-57-1	LC50 LD50		64000 ppm 5630 ppm
Calcium carbonate	471-34-1	LC50 LD50		NOT AVAILABLE NOT AVAILABLE

SECTION 8- STABILITY & REACTIVITY DATA

Stability	Conditions to Avoid	Incompatibility
Stable	None known	None known

Hazardous Polymerization

Will not occur.

Hazardous decomposition Products

Carbon dioxide, carbon monoxide.

SECTION 9- SAFE HANDLING AND STORAGE

Storage category- DOL Storage Class III A

Precautions to be taken in handling and storage- Contents are Combustible. Keep away from heat, sparks and open flame.

During use and until all the vapors are gone:

- Keep the area well ventilated
- Do not smoke
- Consult NFPA Code. Use approved Bonding and Grounding procedures.
- Keep containers closed when not in use. Transfer only to approved containers with complete and accurate labeling.
- Do not take internally
- KEEP OUT OF REACH OF CHILDREN.

SECTION 10- EXPOSURE CONTROLS/PERSONAL PROTECTION.**Precautions to be taken in use**

- Use only with adequate 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.
- Avoid contact with skin and eyes.
- Avoid breathing vapor and spray mist.
- Before initial use, consult OSHA's standard 1910.94, 1910.107, 1910.108

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 (side shields shall be unperforated), 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.

Wash hands after each use.

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

SECTION 11- 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.
- 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.
- Wear approved respiratory protection.
- Wear suitable protective clothing, gloves and eye/face protection.

SECTION 12- DISPOSAL CONSIDERATIONS

Waste Disposal Method

Waste from this product is not hazardous as defined Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Incinerate in approved facility. Do not incinerate closed containers

Dispose of according to all applicable local, state, and federal regulations, regarding pollution.

SECTION 13- ECOLOGICAL INFORMATION

Ecotoxicological Information- No data available.

SECTION 14- TRANSPORT INFORMATION

No data available.

SECTION 15- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION.

CHEMICAL/COMPOUND	CAS NUMBER	% by Wt.	% Element
Methanol	67-57-1	2	

CALIFORNIA PROPOSTION 65

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

TSCA CERTIFICATION

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

SECTION 16- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the CFR and the MSDS contains all the information required by the CFR.

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