



IAL SAFETY DATA SHI

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.

1150 Milepost Drive Columbus, Ohio 43228 **Emergency Phone No.** CHEM-TEL 800-255-3924

Information Phone No. 614-870-0744 8/20/99 Date Of Preparation **Date Supersedes** 2/25/92

SECTION I- IDENTIFICATION

STAR PERMALINE -YELLOW, ALKYD TRAFFIC PAINT, Federal Specification TT-P-115F. **Product Name:**

Trade Name: Alkyd Traffic Marking Paint

Oil Based Traffic Paint Chemical Family: H.M.I.S Chemical Name Alkyd, Air Dry Health = 3Prepared by G.C. Dubey Fire = 2Reactivity = 0

N/A= DATA NOT AVIALABLE N/AP= NOT APPLICABLE,

N/D =NOT DETERMINED

SECTION II- HAZARDOUS INGREDIENTS

<u>Ingredients</u>	CAS NO.	WT%	Exposure OSHA PEL	Limits ACGIH TLV	Vapor . Pres. (mm/Hg @ 20 C)
Calcium Carbonate (090)	471-34-1	35-40	5mg/m3		N/AP
Magnesium Chloride (04	0) 14807-96-6	10-15	2mg/m3	2mg/m3	N/AP
Aliphatic Hydrocarbons	64742-89-8	20-25	300 ppm	300 ppm	15@ 37.7
Xylene (030,130)	1330-20-7	1.1	100 ppm	100 ppm	5.1
Lead Chromate	7758-97-6				
(010,030,040,050) As Lead (1)		4.21	0.15mg/m	n3 0.05/mg	/m3 N/AP
Chromium Compounds		1.94	0.05mg/m	n3 0.01/mg	/m3 N/AP
Notes: '010 Industrial substance suspect of carcinogenic potential for humans: ACGIH 1989-1990, Appendix A2					

This chemical is subject to reporting requirements of section 313, SARA TITLE III.

As a respirable mist or dust would occur from spraying paint or sanding the dried film

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630

640



'090 Limits based on particulates not otherwise classified (PNOC)

'0130 Xylene contains 18-20% ethyl benzene, CAS 100-41-4, TLV/PEL 100 ppm (125 STEL). Ethyl benzene is a SARA 313, Tittle III chemical.

PEL= permissible Exposure Limit

TLV= Threshold Limit Value

SECTION III, PHYSICAL DATA

Boiling Range	Vapor Pressure	Vapor Density	Appearance
	(mm Hg)	(Air=1)	
24-279 ° F	N/A	MORE THAN 1	Opaque, bright yellow
liquid with mild			paint with mild solvent
			odor
Evaporation Rate	Specific Gravity	% Volatile	Freezing Point
Slower than ether	1.46	Approx. 50	N/AP
Miscibility With Water	Threshold Odor	. рН	VOC
None	Approx. 200 ppn	n N/AP	3.1 lb./gal (371grams/liter)

SECTION IV- FIRE AND EXPLOSION HAZARD DATA

Flammability Classification	Flash Point	Flammable Limits
OSHA- CLASS 1B	(method used)	LEL UEL
DOT- FLAMMABLE LIQUID	50-55 ° F	0.9 Vol. N/A
UN- 1263		air.

Combustion productsExtinguishing MediaCO, CO2, Oxides of NitrogenAlcohol Foam, Dry Chemical, CO2, Water.Lead, Chromium and others.

<u>Unusual Fire and Explosion Hazards:</u> 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 V- HEALTH HAZARD DATA

Threshold Limit Value - See section II.

Routes Of Entry - Skin, eyes, inhalation, ingestion. **Effects Of Overexposure** - Acute: YES Chronic: Yes

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ACUTE

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.

CHRONIC

Overexposure to this material (or its components) has been suggested to cause the following effects in humans;

- 1. Metallic taste in the mouth, loss of appetite, indigestion, nausea, vomiting, constipation, abdominal cramps, sleepiness and weakness.
- 2. Chronic overexposure to Lead may result in damage to blood forming, nervous, urinary, and reproductive including embryo toxic effects.
- 3. Prolonged exposure to solvent ingredients (section II) may cause adverse effect to liver, and permanent to brain and nervous system.

ADDITIONAL NOTES

- 1. Skin absorption may potentially contribute to the overall exposure to Methanol. Appropriate measures shall be taken to meet TLV requirements. NIOSH recommends a limit of 200 ppm/8 hrs. TWA, 800 ppm 15 minutes ceiling for Methanol.
 - 2. Overexposure to methanol or its components has been suggested as a cause for eye damage in humans.

Medical conditions prone to be aggravated by exposure: None

Carcinogenic: IARC-YES ACGIH-YES NTP-YES OSHA-YES

Overexposure to Lead Chromates suspected as a cancer inducing agent in humans. ACGIH 1990-91, APPENDIX A2.

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- Consult a physician immediately or Poison Control Center. Treat symptomatically.

Show M.S.D.S. or label.

SECTION VI- REACTIVITY DATA

Stability	Conditions to Avoid	Incompatibility
Stable	Heat, spark and open	(Materials to avoid)
	Flame.	None special noted.

Hazardous Polymerization: Will not occur.

Hazardous decomposition Products: CO, CO2, OXIDES of (Nitrogen, Lead and Chromium) and other products of combustion.

SECTION VII- 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

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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.

<u>Waste Disposal Method</u>: 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 VIII- SAFE HANDLING AND PROTECTION INFORMATION

Before initial use, consult OSHA's standard for Occupational Exposure to Lead (29 CFR 1910.1025) 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.

Contents are combustible, keep away from heat, spark, and open flame. Consult NFPA code. Use approved binding and grounding procedures. Keep containers closed when not in use. Transfer only to approved containers with complete and appropriate labeling.

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

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. Store between 50-100 deg. F. Keep the containers tightly closed after each use.
- 9. Additional Technical Data Sheets and /or M.S.D.S.'s are available upon request.

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