

MATERIAL SAFETY DATA SHEET

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HMIS CODES: H F R P  
2 4 0 X

PRODUCT CODE : 206245  
 PRODUCT NAME : Fluorescent Orange Tree Marking Paint  
 TYPE OF PRODUCT : Aerosol Marking Paint  
 DOT CLASS : AEROSOLS, 2.1, UN1950, LIMITED QUANTITY

SECTION I - MANUFACTURER'S IDENTIFICATION

MANUFACTURED BY : Rust-Oleum Corporation  
 ADDRESS : 11 Hawthorn Parkway, Vernon Hills, IL 60061 USA  
 24-HOUR EMERGENCY : 1-847-367-7700 (SPILL, LEAK, FIRE, ACCIDENT)  
 NAME OF PREPARER : Regulatory Department.  
 DATE PREPARED/REVISED: 01/07/2004 DATE PRINTED: 01/07/04  
 REASON REVISED : Original MSDS

SECTION IIA - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

CAS NUMBER	HAZARDOUS COMPONENTS	WT. %	---OCCUPATION EXPOSURE LIMITS---			VAPOR PRESSURE	
			OSHA PEL**	ACGIH TLV	OTHER	mm HG	@ deg-F
00067-64-1	ACETONE	25	750 ppm	750 ppm	1780 mg/m3	181	68
00074-98-6	PROPANE	12	Simple	Asphyxiant	1000 ppm	3619	70
00075-28-5	ISOBUTANE	4	Not Est.	800 ppm	(estimate)		
00100-41-4	ETHYL BENZENE	.9	100 ppm	100 ppm	434 mg/m3	10	77
00106-97-8	N-BUTANE	8	Not Est	800 ppm	1900 mg/m3	>999	64
01330-20-7	XYLENE	4	100 ppm	100 ppm	434 mg/m3	25	77
08052-41-3	STODDARD SOLVENT, MINERAL SPIRITS	6	100 ppm	100 ppm	525 mg/m3	2	68
64742-89-8	PETROLEUM NAPHTHA, ALKANES & NAPHTHENES	13	Not Est.	300 ppm		80	70

\*\*=PELs represent lowered 1989 limits and may not be enforceable by Federal OSHA.

SECTION IIB - OTHER REGULATORY INFORMATION

CAS NUMBER	DESCRIPTION	CARCINOGEN		SARA TITLE III	CALIFORNIA		
		NTP	IARC OSHA		302	313	P65
00067-64-1	ACETONE						
00074-98-6	PROPANE						
00075-28-5	ISOBUTANE						
00100-41-4	ETHYL BENZENE	X		X			
00106-97-8	N-BUTANE						
01330-20-7	XYLENE			X		X	
08052-41-3	STODDARD SOLVENT, MINERAL SPIRITS						
64742-89-8	PETROLEUM NAPHTHA, ALKANES & NAPHTHENES						

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE : -13 to 752 deg F. WT/GAL: 6.81 (W/ PROP: 6.04)  
 VAPOR DENSITY : HEAVIER THAN AIR SOLIDS BY % WEIGHT: 34.18 w/o prop  
 EVAPORATION RATE : MEDIUM compared to n-butyl acetate VOC BY % WEIGHT : 49.32% MIR : 0.49  
 SOLUBILITY IN WATER: Non-Soluble  
 HAPS BY % WEIGHT : 6.67 w/o prop  
 APPEARANCE AND ODOR: COLORED LIQUID, SWEET ODOR

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

OSHA FLAMMABILITY CLASS : CLASS 1A FLAMMABLE  
 BULK PRODUCT FLASH POINT : -4 deg F. METHOD USED: P-MARTEN  
 BULK PROPELLANT FLASH POINT : -134 deg F.  
 PACKAGED PRODUCT FLAME EXTENSION: 18 inches  
 FLAMMABLE LIMITS IN AIR BY VOLUME - LOWER: .6% UPPER: 19.0%

EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL, WATER FOG

SPECIAL FIREFIGHTING PROCEDURES: Evacuate all unnecessary personnel. Use full protective equipment, including self-contained breathing apparatus. Use water spray, preferably fog, to cool closed containers to prevent pressure build-up and possible explosion. Direct water stream is not recommended for oil base fires. Product may float and reignite on surface of water. Do not allow product or runoff from fire control to enter storm or sanitary sewers, lakes, rivers, streams or waterways.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Explosive air-vapor mixtures may form which are dangerous when exposed to heat or flame. Vapors are heavier than air and may travel along the ground, or be moved by ventilation, and ignited by pilot lights, stoves, heaters, electric motors, sparks, flame, smoking, static discharge or other ignition sources even at locations distant from material handling site. Contents under pressure. Exposure to heat or prolonged exposure to sun may cause bursting.

## ===== SECTION V - REACTIVITY DATA =====

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Dioxide, Carbon Monoxide, Hydrocarbons, Other Organic Compounds, Nitrogen Oxides, Sulfur Oxides

INCOMPATIBILITY (MATERIALS TO AVOID): Strong Oxidizing agents, Organic Peroxides, Acids, Lithium, Neodymium, Titanium, Ozone

STABILITY: Stable.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: High temperature and humidity, ignition source, vapor build-up.

## ===== SECTION VI - HEALTH HAZARD DATA =====

PRIMARY ROUTE(S) OF EXPOSURE: Inhalation, skin contact.

ACUTE EFFECTS FROM SHORT TERM EXPOSURE:

INHALATION: Vapors and mists irritate nose, throat and lungs (burning, stinging, coughing). May cause headache, dizziness, nausea, weakness, shortness of breath and loss of coordination. Exposure to extremely high vapor concentrations may cause unconsciousness and asphyxiation. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

EYES: Contact with liquid or vapors causes severe irritation (redness, watering, itching, stinging, blurred vision).

SKIN: Contact causes severe irritation (dryness, itching, cracking, rash and swelling) and possible burns.

SKIN ABSORPTION: Unknown.

SWALLOWING: May be harmful or fatal. Causes nausea, vomiting, diarrhea and severe central nervous system depression (headache, dizziness, nausea, loss of coordination). Aspiration into the lungs may occur during ingestion or vomiting, resulting in lung injury.

CHRONIC EFFECTS FROM LONG TERM/REPEATED EXPOSURE: Long-term or repeated overexposure, without proper ventilation or personal protection, may cause damage to: kidneys, liver, eyes, heart, brain and nervous system, dermatitis or other skin disorders.

CARCINOGEN DATA: Ethylbenzene is classified as a potential human carcinogen based on laboratory animal studies.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Respiratory tract irritation, nausea, eye disorders, skin disorders, sensitization to chemical substances.

The following statement is required by California Proposition 65 (Safe Drinking Water and Toxic Reform Act of 1986). Warning! This product contains a chemical known to the state of California to cause cancer.

## ===== SECTION VII - EMERGENCY AND FIRST AID PROCEDURES =====

SWALLOWING: In case of accidental ingestion call Poison Center, Emergency Room or Physician immediately.

INHALATION: Remove from exposure to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Keep person warm and quiet. Get medical attention immediately.

EYE: Immediately flush with plenty of water for 15 minutes, while lifting upper and lower eyelids. Get medical attention.

SKIN: Immediately remove by wiping, followed by waterless hand cleaner and plenty of soap and water. Remove contaminated clothing and shoes. Wash or clean thoroughly before reuse. Get medical attention if irritation persists.

OTHER: Have Material Safety Data Sheet available if possible when calling Poison Center, Emergency Room or Physician.

## ===== SECTION VIII - PERSONAL PROTECTION =====

RESPIRATORY PROTECTION: OUTDOOR OR OPEN AREAS: If necessary because of wind, etc. use mechanical filter respirator or particle mask to avoid breathing spray mists. ENCLOSED OR RESTRICTED VENTILATION AREAS: Use NIOSH approved cartridge respirator to keep vapor/mist levels of hazardous ingredients (listed in section IIA) below the occupational exposure limits (PEL and TLV). If exposure levels are unknown, or limits exceeded, a full facepiece air-purifying cartridge respirator is recommended. Use filters to avoid breathing spray particles and sanding dusts. Follow respirators manufacturer's instructions for use.

VENTILATION: INDOOR OR ENCLOSED AREAS: Provide general mechanical ventilation or local exhaust to keep vapor concentrations below the PEL's and TLV's in section II and Lower Flammable Limits in section IV.

HAND PROTECTION: When necessary, wear impermeable gloves to prevent skin contact. Consult safety equipment supplier for specific recommendation of construction material.

**EYE PROTECTION:** Wear safety glasses, with side shields, designed to protect eyes against liquid splash and mists. Note: Contact lenses may contribute to the severity of an eye injury and should not be worn when working with chemicals.

**OTHER PROTECTIVE EQUIPMENT:** Wear protective clothing to avoid skin contact with liquid or mists.

**WORK/HYGIENIC PRACTICES:** Eye washes and safety showers are recommended in the workplace. Wash hands after using and before eating, drinking or using tobacco products. Thoroughly clean contaminated clothing and shoes before reuse. Periodically monitor exposure levels to hazardous ingredients listed in section II and review permissible limits.

===== SECTION IX - SPILL OR LEAK PROCEDURES =====

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Eliminate ignition sources and ventilate area. Evacuate all unnecessary personnel. Wear full protective equipment. Dike drains to prevent entering storm or sanitary sewers, rivers, streams or waterways. Contain spill and cover with inert absorbent material. Take up using non-sparking tools (aluminum, brass or copper) and place mixture into containers for disposal. Note: Some spills or releases may require special reporting to local, state or federal agencies.

**WASTE DISPOSAL:** Waste material and empty containers must be disposed of in accordance with all local, state and federal environmental control regulations. Use only approved waste management facilities.

**DOT/CERCLA:**

The DOT/CERCLA reportable quantity (RQ) for this product is 2250 gallons based on XYLENE RQ 1000 pounds.

===== SECTION X - SPECIAL PRECAUTIONS =====

**HANDLING PRECAUTIONS:** Keep liquid spray and vapors away from heat, sparks and flame. Turn off or remove all sources of ignition. Use proper methods of ventilation to prevent vapor build-up. Avoid spraying hot surfaces. Avoid breathing vapors, spray mists and sanding or grinding dusts. Avoid contact with eyes and skin. Do not take internally. Use adequate methods of ventilation, respiratory and personal protective equipment. Do not heat, puncture or incinerate containers. Contents are under pressure and may contain explosive vapors, even when empty. Do not remove or deface label.

**SHIPPING AND STORAGE PRECAUTIONS:** Contents under pressure. Do not store above 120F or permit prolonged exposure to sunlight. Protect containers from damage. Store in buildings or areas designed and protected for storage of aerosols. Keep out of reach of children. Do not store where contact with incompatible material could occur, even during an accidental spill or release.

===== SECTION XI - DISCLAIMER =====

**DISCLAIMER:** THE INFORMATION CONTAINED HEREIN HAS BEEN COMPILED FROM SOURCES CONSIDERED TO BE RELIABLE. TO THE BEST OF OUR KNOWLEDGE AND BELIEF, ALL INFORMATION IS ACCURATE AND IS PROVIDED IN GOOD FAITH. HOWEVER, NO GUARANTEE OF ACCURACY IS MADE OR IMPLIED.