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MATERIAL SAFETY DATA SHEETS

For Coatings, Resins and Related Materials

PLAINTIFF'S EXHIBIT

BIR-1138

SECTION I

MANUFACTURER: Rust-Oleum Corporation
ADDRESS: 11 Hawthorn Parkway • Vernon Hills, IL 60061
EMERGENCY AND INFORMATION TELEPHONE: (312) 367-7700 (8:00 a.m. - 5:00 p.m. CDT)
EMERGENCY TELEPHONE: (312) 864-8200 (After Business Hours and on Weekends)

PRODUCT CLASS: Aerosol
MFG. CODE NO.: 2233, 2242, 2255 and 2264
TRADE NAME: HARD HAT® Fluorescent Topcoats
DATE OF PREPARATION: August 19, 1987 (MJS)

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT/CAS No.	Wt. %	ACGIH-TLV	OSHA-PEL	LEL	mm Hg@20°C
Hexane/110-54-3	30%*	50ppm	500ppm	1.2%	137.0
Toluene/108-88-3	10%*	100ppm	200ppm	1.2%	22.0
Mineral Spirits/8052-41-3	15%*	100ppm	500ppm	1.0%	2.0
Propellant/68476-88-8	30%*	800ppm	NE	1.8%	85psia
(Propane, Butane, Isobutane)					

*Nearest 5%

NE - Not Established

NA - Not Applicable

SECTION III — PHYSICAL DATA

Boiling Range: Below 0°F
Evaporation Rate (Ether = 1): faster slower
Vapor Density: heavier lighter than air
% Volatile (by vol.): NA
Wt./Gal.: NA
pH: NA

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

Flammability Classification: Extremely Flammable
Flashpoint: Below 0°F (TCC)
DOT Classification: Consumer Commodity ORM-D
Extinguishing Media: NFPA Class B Extinguishers (carbon dioxide, dry chemical or foam)

Special Fire-Fighting Procedures: Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion. If water is used, fog nozzles are preferred.

Unusual Fire and Explosion Hazards: Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat. DO NOT apply to hot surfaces.

PRODUCT CLASS: Aerosol
MFG. CODE NO.: 2326 and 2391
TRADE NAME: HARD HAT® Striping Paints
DATE OF PREPARATION: August 19, 1987 (MJS)

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT/CAS No.	Wt. %	ACGIH-TLV	OSHA-PEL	LEL	mm Hg@20°C
Toluene/108-88-3	7 - 19%	100ppm	200ppm	1.2%	22.0
Xylo/1330-20-7	4 - 15%	100ppm	100ppm	1.0%	9.5
Hexane/110-54-3**	13%	50ppm	500	1.2%	137.0
VM&P Naphtha/64742-89-8	0 - 3%	300ppm	NE	0.9%	2.0
Methyl Alcohol/67-58-1	2 - 4%	200ppm	200ppm	6.0%	96.0
Propane/74-98-6	12%	NE	1000ppm	2.3%	40psia
Isobutane/75-28-5	8%	NE	NE	1.9%	40psia
Titanium Dioxide/13463-67-7	8 - 15%	NE	15.0mg/m	NA	NA

*Nearest 5%

**This chemical in 2391 only.

NE - Not Established

NA - Not Applicable

SECTION III — PHYSICAL DATA

Boiling Range: Below 0°F
Evaporation Rate (Ether = 1): faster slower
Vapor Density: heavier lighter than air
% Volatile (by vol.): NA
Wt./Gal.: NA
pH: NA

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

Flammability Classification: Extremely Flammable
Flashpoint: Below 0°F (TCC)
DOT Classification: Consumer Commodity ORM-D
Extinguishing Media: NFPA Class B Extinguishers (carbon dioxide, dry chemical or foam)

Special Fire-Fighting Procedures: Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion. If water is used, fog nozzles are preferred.

Unusual Fire and Explosion Hazards: Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat. DO NOT apply to hot surfaces.

PRODUCT CLASS: Aerosol
MFG. CODE NO.: 2324, 2333, 2344, 2345, 2354, 2355, 2358, 2363, 2364 and 2392
TRADE NAME: HARD HAT® Marking Paints
DATE OF PREPARATION: August 19, 1987 (MJS)

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT/CAS No.	Wt. %	ACGIH-TLV	OSHA-PEL	LEL	mm Hg@20°C
Toluene/108-88-3	0 - 18%	100ppm	200ppm	1.2%	22.0
Hexane/110-54-3	5 - 10%	50ppm	500ppm	1.2%	137.0
Xylo/1330-20-7	5 - 20%	100ppm	100ppm	1.0%	9.5
Ethylene Glycol/107-21-1	0 - 4%	50ppm	NE	3.2%	0.12
VM&P Naphtha/64742-89-8	1 - 3%	300ppm	NE	0.9%	2.0
Methyl Alcohol/67-58-1**	0 - 4%	200ppm	200ppm	6.0%	96.0
Propane/74-98-6	15 - 18%	NE	1000ppm	2.3%	40psia
Isobutane/75-28-5	10 - 12%	NE	NE	1.9%	40psia
Titanium Dioxide/13463-67-7	0 - 8%	NE	15.0mg/m	NA	NA
(As Nuisance Dust)					

*Nearest 5% **This chemical in 2363 and 2392 only. NE - Not Established NA - Not Applicable

SECTION III — PHYSICAL DATA

Boiling Range: Below 0°F
Evaporation Rate (Ether = 1): faster slower
Vapor Density: heavier lighter than air
% Volatile (by vol.): NA
Wt./Gal.: NA
pH: NA

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

Flammability Classification: Extremely Flammable
Flashpoint: Below 0°F (TCC)
DOT Classification: Consumer Commodity ORM-D
Extinguishing Media: NFPA Class B Extinguishers (carbon dioxide, dry chemical or foam)

Special Fire-Fighting Procedures: Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion. If water is used, fog nozzles are preferred.

Unusual Fire and Explosion Hazards: Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat. DO NOT apply to hot surfaces.

PRODUCT CLASS: Aerosol
MFG. CODE NO.: 2348
TRADE NAME: HARD HAT® Striping Paints
DATE OF PREPARATION: August 19, 1987 (MJS)

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT/CAS No.	Wt. %	ACGIH-TLV	OSHA-PEL	LEL	mm Hg@20°C
Xylo/1330-20-7	20%*	100ppm	100ppm	1.0%	9.5
Toluene/108-88-3	10%*	100ppm	200ppm	1.2%	22.0
Methyl Alcohol/67-58-1	4%	200ppm	200ppm	6.0%	96.0
VM&P Naphtha/64742-89-8	2%	300ppm	NE	0.9%	2.0
Propane/74-98-6	12%	NE	1000ppm	2.3%	40psia
Isobutane/75-28-5	8%	NE	NE	1.9%	40psia
Lead Chromate/7758-97-6	5%*	0.05mg/m	0.05mg/m	NA	NA
Lead (in Dry Film)/7439-92-1	5%*	0.15mg/m	0.05mg/m	NA	NA

*Nearest 5%

NE - Not Established

NA - Not Applicable

SECTION III — PHYSICAL DATA

Boiling Range: Below 0°F
Evaporation Rate (Ether = 1): faster slower
Vapor Density: heavier lighter than air
% Volatile (by vol.): NA
Wt./Gal.: NA
pH: NA

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

Flammability Classification: Extremely Flammable
Flashpoint: Below 0°F (TCC)
DOT Classification: Consumer Commodity ORM-D
Extinguishing Media: NFPA Class B Extinguishers (carbon dioxide, dry chemical or foam)

Special Fire-Fighting Procedures: Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion. If water is used, fog nozzles are preferred.

Unusual Fire and Explosion Hazards: Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat. DO NOT apply to hot surfaces.

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Jim Hultman
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MATERIAL SAFETY DATA SHEET For Coatings, Resins and Related Materials

SECTION I

MANUFACTURER: Rust-Oleum Corporation
ADDRESS: 11 Hawthorn Parkway — Vernon Hills, IL 60061
EMERGENCY TEL: (312) 864-8200 (After business hours and on weekends)
INFORMATION TEL: (312) 3677700 (9-5:00 pm CDT)
PRODUCT CLASS: Alkyd Resin-High Gloss and Flat Enamels
MFG CODE NO.: 412, 604, 721, 745, 862, 866, 868, 906, 925
933, 935, 964, 975, 977, 2784 and 2786
TRADE NAME: Industrial Enamels-USDA Approved Topcoats

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT / CAS. No.	Wt. %	EXPOSURE LIMITS			min Hg@20C
		ACGIH-TLV	OSHA-PEL	LEL	
Mineral Spirits / 8052-41-3	30-55%	100ppm	500ppm	1.0%	2.0
*Nearest 5%			NE—Not established	NA—not applicable	

Boiling Range: 307-389°F (153-198°C)
Evaporation Rate (Ether = 1): faster slower
Vapor Density: heavier lighter than air
% Volatile (by vol): 51-66%
Wt/Gal.: 7.5-11.0 lbs.
pH: NA

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

Flammability Classification: OSHA Class I Combustible Liquid
DOT Classification: Consumer Commodity ORM-D
Extinguishing Media: NFPA Class B extinguishers (Carbon dioxide, dry chemical or foam)
Special Fire Fighting Procedures: Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion. If water is used, fog nozzles are preferred.
Unusual Fire and Explosion Hazards: Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat. DO NOT apply to hot surfaces.
Flashpoint: 104°F (TCC)

SECTION V — HEALTH HAZARD DATA

Effects of Overexposure:
Acute (Inhalation): Irritation of the respiratory tract or acute nervous system depression characterized by headache, dizziness, staggering, confusion, unconsciousness or coma.
Acute (Skin or Eye Contact): Primary irritant which irritates the skin and can lead to dermatitis with repeated overexposures.
Ingestion: Gastrointestinal irritation, nausea, vomiting and diarrhea.
Chronic: Reports have shown repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.
Emergency and First Aid Procedures:
Inhalation: Remove from exposure, restore breathing and notify a physician.
Eye Contact: Flush immediately with large amounts of water for at least 15 minutes. Notify a physician.
Skin Contact: Wash affected area with soap and water, remove contaminated clothing and wash before reuse.
Ingestion: DO NOT induce vomiting. Keep person warm, quiet and get medical attention. Aspiration of this material into the lungs can cause chemical pneumonia which can be fatal.

SECTION VI — REACTIVITY DATA

Stability: Unstable Stable
Hazardous Decomposition Products: By open flame — Carbon Monoxide and Carbon Dioxide
Hazardous Polymerization: Will Not Occur
Incompatible: With Strong Oxidizing Agents

SECTION VII — SPILL OR LEAK PROCEDURES

Release or Spill Procedures: Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools.
Waste Disposal Method: Dispose of according to local, state and federal regulations. DO NOT incinerate closed containers.

SECTION VIII — SPECIAL PROTECTION INFORMATION

Respiratory Protection: Use NIOSH approved chemical cartridge respirator (TC23C) to remove both airborne particles of overspray and organic vapors during overexposure. In confined areas: Use NIOSH approved supplied air respirator or hoods (TC19C).
Eye Protection: Use safety eyewear designed to protect against splash of liquids.
Other Protective Equipment: Use impervious gloves and/or clothing to prevent prolonged skin contact.
Ventilation: Provide general dilution or local exhaust ventilation in volume and pattern to keep TLV of hazardous ingredients below acceptable limits.

SECTION IX — SPECIAL PRECAUTIONS

Handling and Storage Precautions: Do not store above 120°F. Store large quantities in buildings designed and protected for storage of NFPA Class II Combustible liquids. Containers should be grounded when pouring.
Other Precautions: DO NOT take internally. Empty containers may be hazardous.

Date of Preparation: August 24, 1987 (MJS)

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