

MATERIAL SAFETY DATA SHEET



MANUFACTURER: Air Liquide America Corp.
 ADDRESS: 2901 Hamilton Blvd.
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MSDS NO. PAINT MARKER

Date JANUARY 5, 1995

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 EMERGENCY NO. Same as above

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SECTION 1 MATERIAL IDENTIFICATION

PRODUCT NAME: **TEMPIL^o PAINTPEN (YELLOW, WHITE, BLACK, RED)**

GENERIC NAME OR FAMILY: **FELT TIP PAINT MARKER**

SHIPPING NAME: DOT: NON-REGULATED - WATERBORNE
 IATA: SAME AS DOT

HAZARDOUS COMPONENTS OF MIXTURE	%	OSHA PEL	ACGIH TLV	CAS Number
AMMONIA	0.1-0.3	25ppm	25ppm	7664-41-7
PROPYLENE GLYCOL	1-3	400ppm	400ppm	57-55-6
Non-hazardous ingredients	96.7 - 98.9			
TOTAL	100%			

SECTION 313 SUPPLIER NOTIFICATION

This product contains the following toxic chemical(s) subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of CFR 372:

CHEMICAL NAME	%	CAS Number
AMMONIA	0.1-0.3	7664-41-7

SECTION 2 PHYSICAL DATA

BOILING POINT (°F.)	260	SPECIFIC GRAVITY (H ₂ O = 1)	.97
VAPOR PRESSURE (mm Hg.)	2.5/22C	PERCENT VOLATILE BY VOLUME (%)	N.A.
VAPOR DENSITY (AIR = 1)	3.1	EVAPORATION RATE (<u>butyl acetate</u> ₁)	0.2
SOLUBILITY IN WATER	complete	VOLATILE ORGANIC COMPOUNDS (VOC)	120 grams/liter 1 Pound/gallons
APPEARANCE AND ODOR	Liquid in pen slight ammoniacal odor		

SECTION 3 FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	LOWER N/A	UPPER N/A
EXTINGUISHING MEDIA Non-flammable (aqueous emulsion) after water evaporates Remaining will burn. Use alcohol type or all purpose foam.				
SPECIAL FIRE FIGHTING PROCEDURES For large fires. Use CO ₂ or dry chemical media for small fires.				

UNUSUAL FIRE AND EXPLOSION HAZARDS Material can splatter above 100C/212F. Polymer film will burn. Self-contained breathing apparatus should be used by exposed fire fighters. Dried solids can burn, giving off oxides of carbon and nitrogen.

SECTION 4 — REACTIVITY HAZARD DATA

STABILITY	Conditions To Avoid	Unknown
<input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable		
Incompatibility (Material to Avoid)	None known	
Hazardous Decomposition Products		
HAZARDOUS POLYMERIZATION	Conditions To Avoid	Temperature over 350°F.
<input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not Occur		

SECTION 5 — CONTROL AND PROTECTIVE MEASURES

Respiratory Protection None required if good ventilation is maintained. Otherwise (Specify Type) wear self-contained breathing apparatus or MSHA, NIOSH approved respirator.		
Protective Gloves	Wear impervious gloves and protective clothing to prevent skin contact	Eye Protection splash goggles
VENTILATION TO BE USED	<input checked="" type="checkbox"/> Local Exhaust	<input type="checkbox"/> Mechanical (general)
	<input type="checkbox"/> Other (specify)	
Other Protective Clothing and Equipment Not normally required.		
Hygienic Work Practices Observe good hygienic practices. Avoid paint contact with skin and eyes.		

SECTION 6 — HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY	<input checked="" type="checkbox"/> Inhalation	<input type="checkbox"/> Ingestion
	<input checked="" type="checkbox"/> Skin Absorption	<input type="checkbox"/> Not Hazardous
HEALTH HAZARDS	Acute Irritation to skin upon repeated or prolonged contact slightly irritating to eyes, vapour or mist can cause Cause headache, nausea, and irritation of the nose, throat and lungs.	
Signs and Symptoms of Exposure	Headache, nausea and irritation of the nose, throat and lungs.	

Target organ information See Health Hazards

EMERGENCY FIRST AID PROCEDURES - Seek medical assistance for further treatment, observation and support if necessary.

Eye Contact Flush eyes with large amount of water for at least 15 minutes.

See a physician if irritation persists.

Skin Contact Wash effected areas with soap and water. Remove saturated clothing and wash before re-use.

Inhalation Move to fresh air.

Ingestion Immediately drink large amount of water. Induce vomiting.
Call a physician.

SECTION 7 — PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken if Material is Spilled Or Released Dike and contain spill with inert material. Transfer liquid to container for recovery or disposal. Keep spills and cleaning runoffs out of municipal sewars and open bodies of water.

Waste Disposal Methods Coagulate the emulsion by the stepwise addition of ferric chloride and lime.

Landfill the solids and the contaminated diking material according to local State and Federal regulations.

Precautions to be Taken in Handling and Storage Keep from freezing. Product may coagulate storage temp max 120°F - min. 34°F

Other Precautions and/or Special Hazards

HMIS rating: 0= Minimal hazard
1= Slight hazard
2= Moderate hazard
3= Serious hazard
4= Severe hazard

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0

NA: Not Applicable