



Material Safety Data Sheet

The information presented in these forms is believed to be correct and sufficient to meet the requirements of OSHA Hazard Communication standard (29 CFR 1910.1200) concerning worker's right to know.

This MSDS covers the following Aervoe Paint Pens.

INDUSTRIAL PAINT PEN

1221 Red
1222 Yellow
1223 Orange

1226 Black
1227 White

1228 Blue
1229 Pink

SECTION I - DISTRIBUTOR IDENTIFICATION

DISTRIBUTOR'S NAME: Aervoe Industries Inc.
INFORMATION PHONE: 775-782-0100
DATE REVISED: 01-28-04

ADDRESS: 1198 Mark Circle, Gardnerville, NV 89410
EMERGENCY PHONE: 1-800-424-9300
REASON REVISED: Updated

SECTION II - HAZARDOUS INGREDIENTS / SARA III INFORMATION OCCUPATIONAL EXPOSURE LIMITS

HAZARDOUS COMPONENTS	WEIGHT PERCENT	OSHA PEL	ACGIH TLV	LD50 SPECIES & ROUTE	LC50 SPECIES & ROUTE
1221, 1223, and 1228 contains					
Mineral Spirits (CAS 64742-88-7)	40 - 45	500 ppm	100 ppm	34.6 g / kg (Rat-Oral) 15.4 g / kg (Rabbit-Skin)	21.4 g/m ³ (4 hr, Rat)
VM&P Naphtha (CAS 64742-89-8)	10 - 20	300 ppm	300 ppm	N / AV	3400 ppm (4 hr, Rat)
*Xylene (CAS 1330-20-7)	3 - 7	100 ppm	100 ppm	4.3g / kg (Rat-Oral)	5000 ppm (4 hr, Rat)
High Boiling Aliphatic Hydrocarbon (CAS 64742-47-8)	1 - 5	500 ppm	100 ppm	N / AV	N / AV
1222, 1226, 1227, and 1229 contains					
*Xylene (CAS 1330-20-7)	35 - 60	100 ppm	100 ppm	4.3g / kg (Rat-Oral)	5000 ppm (4 hr, Rat)

*Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

NOTE: N / AP = Not Applicable N / AV = Not Available

SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING POINT: 246° to 404° F (119° to 207° C) **SPECIFIC GRAVITY (H₂O=1):** 0.9 **COEFFICIENT OF WATER/OIL DIST:** N / AV
ODOR THRESHOLD: N / AV **VAPOR DENSITY:** Heavier than air **SOLUBILITY IN WATER:** 0%
EVAPORATION RATE: Slower than n-Butyl Acetate **APPEARANCE AND ODOR:** Colored, opaque liquid with hydrocarbon odor.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 75° to 85° F (24° to 29° C) **METHOD USED:** SFCC-TCC **FLAMMABLE LIMITS - LEL:** 1.0% **UEL:** 7.0%
EXTINGUISHING MEDIA: Alcohol Foam, Dry Chemical, Carbon Dioxide
SPECIAL FIRE FIGHTING PROCEDURES: Use water spray to cool containers exposed to heat or fire to prevent pressure build up. Self-contained breathing apparatus should be used if product is involved in fire.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Closed containers may rupture due to pressure build up from extreme heat or fire
HAZARDOUS COMBUSTION PRODUCTS: Carbon Dioxide, Carbon Monoxide, Unidentified organic compounds
FLAMMABILITY: Flammable liquid under conditions of sparks, flame, or hot surfaces.
SENSITIVITY TO IMPACT: Do not puncture **SENSITIVITY TO STATIC DISCHARGE:** Primarily vapors

SECTION V - REACTIVITY DATA

STABILITY: Stable **CONDITIONS TO AVOID:** Open flames, sparks, electrical arcs.
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide, Unidentified organic compounds
HAZARDOUS POLYMERIZATION: Will not occur

SECTION VI - HEALTH HAZARD DATA

INHALATION: Respiratory tract irritant. May cause dizziness, light-headedness and / or headaches.
SKIN CONTACT: Prolonged or repeated contact may cause irritation and dermatitis.
EYE CONTACT: May cause irritation, redness, tearing and blurred vision.
SKIN ABSORPTION: Not likely to be absorbed in toxic amounts under normal use.
INGESTION: Not likely in normal use but swallowing large amounts may be harmful.
CARCINOGENICITY: The ingredients are not listed as a human carcinogen by ACGIH, NTP, or OSHA. The IARC classifies some components as 2B, i.e. possibly carcinogenic.
TERATOGENICITY: Not established **MUTAGENICITY:** Not established
MEDICAL CONDITION GENERALLY AGGRAVATED BY EXPOSURE: Not established
EMERGENCY AND FIRST AID PROCEDURES: **INHALATION:** - Remove from exposure, seek medical attention if signs/symptoms persist.
SKIN: - Wash affected area with soap and water, remove contaminated clothing, seek medical attention if irritation persists.
EYES: - Flush immediately with water for 15 minutes, seek medical attention if irritation persists.
INGESTION: - Do NOT induce vomiting, seek medical attention if irritation persists.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Remove all sources of ignition. Ventilate area. Prevent from entering a watercourse. Use an inert absorbent material and non-sparking type tools.
WASTE DISPOSAL METHOD: Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers.
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep markers capped when not in use. Do not store above 120° F (49°C). Do not store or use near heat, sparks or flame.
OTHER PRECAUTIONS: Do not smoke while using this product.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION: Not usually required. In areas with poor ventilation, use a NIOSH approved Organic Vapor Cartridge Respirator. For concentrations above the TLV (as defined in Section II), use a positive air supplied respirator.
VENTILATION: General ventilation to maintain exposure limits below TLV's as defined in Section II.
PROTECTIVE GLOVES: Chemical resistant gloves such as Neoprene or Nitrile rubber when skin contact is possible.
EYE PROTECTION: Not normally required if used as intended.
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: None
WORK / HYGIENIC PRACTICES: Avoid prolonged or repeated contact. Do not breathe vapors. Wash contaminated clothing prior to reuse.

SECTION IX - DISCLAIMER

THE INFORMATION CONTAINED HEREIN IS BELIEVED TO BE ACCURATE BUT IS NOT WARRANTED TO BE SO. NOTHING CONTAINED HEREIN CONSTITUTES A SPECIFICATION NOR IS IT INTENDED TO WARRANT SUITABILITY FOR THE INTENDED USE.