



Material Safety Data Sheet

TO: MSDS USERS

Please find below the material safety data sheet as per your request.

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. In order for the information contained in the MSDS to be most helpful we recommend that these forms be made available to all those who handle or may otherwise be exposed to the product.

This MSDS covers the following AerVOE aerosol product.

PRODUCT NAME:

HMIS CODES: H F R P
2 4 0 X


6001 Blue Toolmaker's Ink

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: AerVOE Industries Inc.
INFORMATION PHONE: 775-782-0100
DATE REVISED: 08-23-02

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

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

HAZARDOUS COMPONENTS	WEIGHT PERCENT	OSHA PEL	ACGIH TLV	OTHER	LD50 SPECIES & ROUTE	LC50 SPECIES & ROUTE
*METHYL ETHYL KETONE (CAS 78 93 3)	30 - 60	200 PPM	200 PPM		N/A	N/A
HYDROCARBON PROPELLANT (CAS 68476 86 8)	15 - 40	1000 PPM	1000 PPM		N/A	N/A
*TOLUENE (CAS 108 88 3)	7 - 13	200 PPM	50 PPM (Skin)		N/A	N/A
*XYLENE (CAS 1330 20 7)	1 - 5	100 PPM	100 PPM		4300 mg / kg RAT (ORAL)	6700 PPM; 4 hr RAT (INHA)
Propylene Glycol Methyl Ether Acetate (CAS 108 65 6)	1 - 5	N/A	N/A		N/A	N/A

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

NOTE: N/A applies to not available or not applicable

PRODUCT: Crown Blue Toolmaker's Ink - Aerosol

SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING POINT: N/A
VAPOR DENSITY: Heavier than air
EVAPORATION RATE: Slower than Ether

SPECIFIC GRAVITY (H2O=1): 0.72
SOLUBILITY IN WATER: Negligible
APPEARANCE AND ODOR: Blue color with ketone odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: < 0° F (-18° C)
EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical.
SPECIAL FIRE FIGHTING PROCEDURES: Water spray may be used 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: Treat as cylinders of compressed gas. Closed containers may rupture due to pressure build up from extreme heat or fire.

METHOD USED: Estimate

FLAMMABLE LIMITS - LEL: 1.0% UEL: 15.1%

SECTION V - REACTIVITY DATA

STABILITY: Stable
INCOMPATIBILITY (MATERIALS TO AVOID): Avoid alkaline materials and mineral acids.
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Carbon Monoxide, Carbon Dioxide.
HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Open flames, sparks, electrical arcs.

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: Painful with slight to moderate irritation.
SKIN ABSORPTION: Not likely to be absorbed in toxic amounts.
INGESTION: Not likely.
CARCINOGENICITY: None known
TERATOGENICITY: 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.
SPLASH - (SKIN) Wash affected area with soap and water, remove contaminated clothing, seek medical attention if irritation persists.
SPLASH - (EYES) Flush immediately with water for 15 minutes and seek medical attention if irritation persists.
INGESTION - Do NOT induce vomiting. Drink plenty of water and seek medical attention if irritation persists.

NTP: No IARC MONOGRAPHS: No OSHA REGULATED: No

MUTAGENICITY: Not established

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Remove all sources of ignition: Flames, sparks, static electricity & electrical. Ventilate area, avoid run off into sewer by diking, and soak up with inert absorbent using 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: Do not store above 120° F (49° C). Do not store or use near heat, sparks or flame.
OTHER PRECAUTIONS: Do not get in eyes. Do not breathe vapors. Avoid skin contact. Do not take internally. Smoking while using this product must be strictly prohibited.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION: Respiratory protection program should be in accordance with 29 CFR 1910.134.
VENTILATION: All application areas should be adequately ventilated in order to keep the items in SECTION II below their exposure limits.
PROTECTIVE GLOVES: Polyethylene or Neoprene gloves are recommended.
EYE PROTECTION: Safety glasses with side shields are recommended.
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Not established.
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.



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This MSDS covers the following AerVOE bulk products.

PRODUCT NAME:

HMIS CODES: H F R P
2 3 0 X



6001Q Blue Toolmaker's Ink
6001G Blue Toolmaker's Ink

SECTION I - MANUFACTURER IDENTIFICATION

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HAZARDOUS COMPONENTS	WEIGHT PERCENT	OSHA PEL	ACGIH TLV	OTHER	LD50 SPECIES & ROUTE	LC50 SPECIES & ROUTE
*METHYL ETHYL KETONE (CAS 78 93 3)	> 70	200 PPM	200 PPM		N/A	N/A
*TOLUENE (CAS 108 88 3)	7 - 13	200 PPM	50 PPM (Skin)		N/A	N/A
*XYLENE (CAS 1330 20 7)	1 - 5	100 PPM	100 PPM		4300 mg / kg RAT (ORAL)	6700 PPM; 4 hr RAT (INHA)
Propylene Glycol Methyl Ether Acetate (CAS 108 65 6)	1 - 5	N/A	N/A		N/A	N/A

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

NOTE: N/A applies to not available or not applicable

PRODUCT: Crown Blue Toolmaker's Ink - Bulk

SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING POINT: 175° F (79° C)
VAPOR DENSITY: Heavier than air
EVAPORATION RATE: Slower than Ether

SPECIFIC GRAVITY (H2O=1): 0.86
SOLUBILITY IN WATER: Negligible
APPEARANCE AND ODOR: Blue color with ketone odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 28° F (-2° C)
EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical.
SPECIAL FIRE FIGHTING PROCEDURES: Water spray may be used 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.

METHOD USED: TCC
FLAMMABLE LIMITS - LEL: 1.8% **UEL:** 9.5%

SECTION V - REACTIVITY DATA

STABILITY: Stable
INCOMPATIBILITY (MATERIALS TO AVOID): Avoid alkaline materials and mineral acids.
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Carbon Monoxide, Carbon Dioxide.
HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Open flames, sparks, electrical arcs.

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: Painful with slight to moderate irritation.
SKIN ABSORPTION: Not likely to be absorbed in toxic amounts.
INGESTION: Not likely to be absorbed in toxic amounts.
CARCINOGENICITY: None known
TERATOGENICITY: 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.
SPLASH - (SKIN) Wash affected area with soap and water, remove contaminated clothing, seek medical attention if irritation persists.
SPLASH - (EYES) Flush immediately with water for 15 minutes and seek medical attention if irritation persists.
INGESTION - Do NOT induce vomiting. Drink plenty of water and seek medical attention if irritation persists.

NTP: No
IARC MONOGRAPHS: No
OSHA REGULATED: No

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Remove all sources of ignition: Flames, sparks, static electricity & electrical. Ventilate area, avoid run off into sewer by diking, and soak up with inert absorbent using 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: Do not store above 120° F (49° C). Do not store or use near heat, sparks or flame.
OTHER PRECAUTIONS: Do not get in eyes. Do not breathe vapors. Avoid skin contact. Do not take internally. Smoking while using this product must be strictly prohibited.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION: Respiratory protection program should be in accordance with 29 CFR 1910.134.
VENTILATION: All application areas should be adequately ventilated in order to keep the items in SECTION II below their exposure limits.
PROTECTIVE GLOVES: Polyethylene or Neoprene gloves are recommended.
EYE PROTECTION: Safety glasses with side shields are recommended.
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Not established.
WORK / HYGIENIC PRACTICES: Avoid prolonged or repeated contact. Do not breathe vapors. Wash contaminated clothing prior to reuse.

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