



## SECTION 1 - Product Information

**Product Identifier:** 6001 Blue Toolmaker's Ink**Product Use:** Layout Ink**Manufacturer's Name:** Aervoe Industries Inc.**Address:** 1198 Mark Circle, Gardnerville, NV 89410**Emergency Phone:** 1-800-424-9300**Preparation Date:** November 28, 2007

## SECTION 2 - Hazardous Ingredients

Hazardous Ingredients	Weight %	CAS Number	LD <sub>50</sub> of Ingredient (species & route)	LC <sub>50</sub> of Ingredient (species)
Methyl Ethyl Ketone	30 - 60	78-93-3	N / AV	N / AV
Propane	10 - 30	74-98-6	N / AV	N / AV
n-Butyl Acetate	7 - 13	123-86-4	N / AV	N / AV
n-Butane	5 - 10	106-97-8	N / AV	N / AV
Isobutane	3 - 7	75-28-5	N / AV	57 pph / 15 min (Rat)
Propylene Glycol Methyl Ether Acetate	1 - 5	108-65-6	N / AV	N / AV

## SECTION 3 - Physical Data

**Physical State:** Aerosol**Specific Gravity:** 0.7**Evaporation Rate:** Faster than n-Butyl Acetate**Boiling Point:** N / AP**Freezing Point:** N / AV**pH:** N / AP**Vapor Density (air = 1):** Heavier than air**Vapor Pressure (psig):** 40 - 50**Odor and Appearance:** Ketone odor / Blue liquid**Odor Threshold (ppm):** N / AV**Coefficient of Water/Oil Distribution:** N / AV

## SECTION 4 - Fire and Explosion Data

**Flammability:** Yes - Flammable aerosol under conditions of sparks, flame, or excessive heat.**Means of Extinction:** *Extinguishing Media* - Carbon dioxide, foam, dry chemical. *Firefighting Procedures* - Treat as cylinders of compressed gas. Closed containers may rupture due to pressure build up from extreme temperature. Use water spray to cool containers to prevent pressure build up. Self-contained breathing apparatus should be used if product is involved in fire.**Flashpoint:** < 0° F (-18° C)**Method Used:** Estimated**Flammable Limits - LFL:** 1.2%**UFL:** 11.5%**Autoignition Temperature:** N / AV**Hazardous Combustion Products:** Carbon Monoxide, Carbon Dioxide.**Explosion Data - Sensitivity to Mechanical Impact:** No**Explosion Data - Sensitivity to Static Discharge:** No

## SECTION 5 - Reactivity Data

**Chemical Stability:** Stable**Incompatibility with Other Substances:** Strong oxidizing agents.**Reactivity & Conditions:** None**Hazardous Decomposition Products:** None**NOTE:** N / AP = Not Applicable N / AV = Not Available**Primary Routes of Entry:** Skin Contact, Eye Contact, Inhalation**Effects of Acute Exposure to Product:***Skin Contact* - Irritation.*Eye Contact* - Irritation.*Inhalation* - Irritation. May cause dizziness, light-headedness and / or headaches.**Effects of Chronic Exposure to Product:** Dermatitis.**Exposure Limits (TLV):**

Methyl Ethyl Ketone 200 ppm TWA and 300 ppm STEL - ACGIH 2005

Propane 2500 ppm TWA - ACGIH 2005

n-Butyl Acetate 150 ppm TWA and 200 ppm STEL - ACGIH 2005

n-Butane 800 ppm TWA - ACGIH 2005

Isobutane N / AV - ACGIH 2005

Propylene Glycol Methyl Ether Acetate N / AV - ACGIH 2005

**Irritancy:** Skin, eyes, and respiratory tract.**Sensitization:** N / AV**Carcinogenicity:** The ingredients are not listed as a human carcinogen by IARC, ACGIH, NTP, or OSHA.**Reproductive Toxicity:** N / AV**Teratogenicity:** N / AV**Mutagenicity:** N / AV**Synergistic Products:** N / AV

## SECTION 7 - Preventive Measures

**Personal Protective Equipment (PPE):** Gloves - Yes Respirator - Yes Eye - Yes Footwear - No Clothing - No Other - No*Skin Protection* - Chemical resistant gloves such as Neoprene or Nitrile rubber.*Respiratory Protection* - In areas with poor ventilation, use a NIOSH approved Organic Vapor Cartridge Respirator.

For concentrations above the TLV (as defined in Section 6), use a positive air supplied respirator.

*Eye Protection* - Safety glasses or goggles.**Engineering Controls:** General ventilation to maintain exposure limits below TLV's as defined in Section 6.**Leak and Spill Procedure:** Remove all sources of ignition. Ventilate area. Prevent from entering a watercourse. Use an inert absorbent material and non-sparking type tools.**Waste Disposal:** Dispose of in accordance with local, state/provincial or territorial, and federal regulations. Do not incinerate closed containers.**Handling Procedures and Equipment:** Do not use near heat, sparks, or open flame. Use PPE as defined in Section 7.**Storage Requirements:** Do not store near heat, sparks, flame or above 120° F (49° C).**Special Shipping Information:** Consumer Commodity ORM-D.

## SECTION 8 - First Aid Measures

**Inhalation:** Remove from exposure, seek medical attention if signs/symptoms persist.**Ingestion:** Do NOT induce vomiting, seek medical attention.**Skin Contact:** Wash affected area with soap and water, remove contaminated clothing, seek medical attention if irritation persists.**Eye Contact:** Flush immediately with water for 15 minutes, seek medical attention if irritation persists.

## SECTION 9 - Preparation Information

**Prepared by:** Technical Department**Telephone Number:** 775-782-0100**Preparation Date:** 11-28-07

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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**SECTION 2 - Hazardous Ingredients**

Hazardous Ingredients	Weight %	CAS Number	LD <sub>50</sub> of Ingredient (species & route)	LC <sub>50</sub> of Ingredient (species)
Methyl Ethyl Ketone	60 - 80	78-93-3	N / AV	N / AV
n-Butyl Acetate	10 - 30	123-86-4	N / AV	N / AV
Propylene Glycol Methyl Ether Acetate	3 - 7	108-65-6	N / AV	N / AV
Aliphatic Hydrocarbon	.5 - 1.5	8032-32-4	N / AV	N / AV

**SECTION 3 - Physical Data**

**Physical State:** Liquid  
**Boiling Point:** 175° F (79° C)  
**Vapor Density (air = 1):** Heavier than air  
**Odor and Appearance:** Ketone odor / Blue liquid  
**Coefficient of Water/Oil Distribution:** N / AV

**Specific Gravity:** 0.9  
**Freezing Point:** N / AV

**Evaporation Rate:** Faster than n-Butyl Acetate  
**pH:** N / AP  
**Vapor Pressure (psig):** N / AP  
**Odor Threshold (ppm):** N / AV

**SECTION 4 - Fire and Explosion Data**

**Flammability:** Yes - Flammable liquid under conditions of sparks, flame, or excessive heat.  
**Means of Extinction:** *Extinguishing Media* - Carbon dioxide, dry chemical, water spray. *Firefighting Procedures* - Closed containers may rupture due to pressure build up from extreme temperature. Use water spray to cool containers to prevent pressure build up. Self-contained breathing apparatus should be used if product is involved in fire.  
**Flashpoint:** 28° F (-2° C) **Method Used:** TCC **Flammable Limits - LFL:** .9% **UFL:** 11.5%  
**Autoignition Temperature:** N / AV **Hazardous Combustion Products:** Carbon Monoxide, Carbon Dioxide.  
**Explosion Data - Sensitivity to Mechanical Impact:** No **Explosion Data - Sensitivity to Static Discharge:** No

**SECTION 5 - Reactivity Data**

**Chemical Stability:** Stable  
**Reactivity & Conditions:** None

**Incompatibility with Other Substances:** Strong oxidizing agents.  
**Hazardous Decomposition Products:** None

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

**SECTION 6 - Toxicological Properties**

**Primary Routes of Entry:** Skin Contact, Eye Contact, Inhalation  
**Effects of Acute Exposure to Product:**  
*Skin Contact* - Irritation.  
*Eye Contact* - Irritation.  
*Inhalation* - Irritation. May cause dizziness, light-headedness and / or headaches.  
**Effects of Chronic Exposure to Product:** Dermatitis.

**Exposure Limits (TLV):**

Methyl Ethyl Ketone 200 ppm TWA and 300 ppm STEL - ACGIH 2005  
n-Butyl Acetate 150 ppm TWA and 200 ppm STEL - ACGIH 2005  
Propylene Glycol Methyl Ether Acetate N / AV - ACGIH 2005  
Aliphatic Hydrocarbon 300 ppm TWA and N / AV STEL - ACGIH 2005

**Irritancy:** Skin, eyes, and respiratory tract.

**Sensitization:** N / AV

**Carcinogenicity:** The ingredients are not listed as a human carcinogen by IARC, ACGIH, NTP, or OSHA.

**Reproductive Toxicity:** N / AV **Teratogenicity:** N / AV **Mutagenicity:** N / AV **Synergistic Products:** N / AV

**SECTION 7 - Preventive Measures**

**Personal Protective Equipment (PPE):** Gloves - Yes Respirator - Yes Eye - Yes Footwear - No Clothing - No Other - No  
*Skin Protection* - Chemical resistant gloves such as Neoprene or Nitrile rubber.  
*Respiratory Protection* - In areas with poor ventilation, use a NIOSH approved Organic Vapor Cartridge Respirator. For concentrations above the TLV (as defined in Section 6), use a positive air supplied respirator.  
*Eye Protection* - Safety glasses or goggles.  
**Engineering Controls:** General ventilation to maintain exposure limits below TLV's as defined in Section 6.  
**Leak and Spill Procedure:** Remove all sources of ignition. Ventilate area. Prevent from entering a watercourse. Use an inert absorbent material and non-sparking type tools.  
**Waste Disposal:** Dispose of in accordance with local, state/provincial or territorial, and federal regulations. Do not incinerate closed containers.  
**Handling Procedures and Equipment:** Do not use near heat, sparks, or open flame. Use PPE as defined in Section 7.  
**Storage Requirements:** Do not store near heat, sparks, flame or above 120° F (49° C).  
**Special Shipping Information:** Flammable Liquid, n.o.s. (Methyl Ethyl Ketone), 3, UN1993, II.

**SECTION 8 - First Aid Measures**

**Inhalation:** Remove from exposure, seek medical attention if signs/symptoms persist.  
**Ingestion:** Do NOT induce vomiting, seek medical attention.  
**Skin Contact:** Wash affected area with soap and water, remove contaminated clothing, seek medical attention if irritation persists.  
**Eye Contact:** Flush immediately with water for 15 minutes, seek medical attention if irritation persists.

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