



SECTION 1 - Product Information

Product Identifier: 1013 Fault-Finder Developer Group 1A**Product Use:** Developer**Manufacturer's Name:** AerVOE Industries Inc.**Address:** 1198 Mark Circle, Gardnerville, NV 89410**Emergency Phone:** 1-800-424-9300

SECTION 2 - Hazardous Ingredients

Hazardous Ingredients	Weight %	CAS Number	LD ₅₀ of Ingredient (species & route)	LC ₅₀ of Ingredient (species)
Trichloroethylene	30 - 60	79-01-6	4920 mg / kg (Rat-Oral) 10,000 mg / kg (Rabbit-Skin)	12,500 ppm / 4 hr (Rat)
Propane	10 - 30	74-98-6	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)
Toluene	1 - 5	108-88-3	N / AV	N / AV

SECTION 3 - Physical Data

Physical State: Aerosol**Specific Gravity:** 0.9**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):** 45 - 55**Odor and Appearance:** Ether-like odor / Off white liquid**Odor Threshold (ppm):** 80**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, dry chemical, water spray. *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:** 10.5%**Autoignition Temperature:** N / AV**Hazardous Combustion Products:** Carbon Monoxide, Carbon Dioxide, Hydrogen Chloride gas and possible traces of Phosgene.**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, strong acids or bases.**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):**

Trichloroethylene 50 ppm TWA and 100 ppm STEL - ACGIH 2005

Propane 2500 ppm TWA - ACGIH 2005

n-Butane 800 ppm TWA - ACGIH 2005

Isobutane N / AV - ACGIH 2005

Toluene 50 ppm TWA (skin) - ACGIH 2005

Irritancy: Skin, eyes, and respiratory tract.**Sensitization:** N / AV**CARCINOGENICITY:** Trichloroethylene is not listed as a human carcinogen by OSHA. It is listed by ACGIH as TLV-A5, "Not suspected as a Human Carcinogen"; by NTP as R "Reasonably Anticipated To Be A Human Carcinogen"; by IARC as 2A "Probably Carcinogenic to Humans". The remaining ingredients are not listed as a human carcinogen by OSHA, ACGIH, NTP, or IARC.**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, drink plenty of water, 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:** 11-23-05

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.



SECTION 1 - Product Information

Product Identifier: 1013 Fault-Finder Developer Group 1A**Product Use:** Developer**Manufacturer's Name:** AerVOE Industries Inc.**Address:** 1198 Mark Circle, Gardnerville, NV 89410**Emergency Phone:** 1-800-424-9300

SECTION 2 - Hazardous Ingredients

Hazardous Ingredients	Weight %	CAS Number	LD ₅₀ of Ingredient (species & route)	LC ₅₀ of Ingredient (species)
Trichloroethylene	60 - 100	79-01-6	4920 mg / kg (Rat-Oral) 10,000 mg / kg (Rabbit-Skin)	12,500 ppm / 4 hr (Rat)
Toluene	1 - 5	108-88-3	N / AV	N / AV
Octylphenoxypolyethoxyethanol	1 - 5	9036-19-5	707 mg / kg (Female Rat-Oral)	N / AV

SECTION 3 - Physical Data

Physical State: Liquid **Specific Gravity:** 1.5 **Evaporation Rate:** Slower than Ethyl Ether
Boiling Point: 189° F (87° C) **Freezing Point:** N / AV **pH:** N / AV
Vapor Density (air = 1): Heavier than air **Vapor Pressure (psig):** N / AV
Odor and Appearance: Ether-like odor / Off-white liquid **Odor Threshold (ppm):** 80
Coefficient of Water/Oil Distribution: N / AV

SECTION 4 - Fire and Explosion Data

Flammability: No
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: None **Method Used:** PMCC **Flammable Limits - LFL:** 1.2% **UFL:** 10.5%
Autoignition Temperature: N / AV
Hazardous Combustion Products: Carbon Monoxide, Carbon Dioxide, Hydrogen Chloride, and possible traces of Phosgene.
Explosion Data - Sensitivity to Mechanical Impact: No **Explosion Data - Sensitivity to Static Discharge:** N / AV

SECTION 5 - Reactivity Data

Chemical Stability: Stable **Incompatibility with Other Substances:** Strong oxidizing agents, strong acids or bases.
Reactivity & Conditions: None **Hazardous Decomposition Products:** None

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

SECTION 6 - Toxicological Properties

Primary Routes of Entry: Skin Contact, Skin Absorbtion, Eye Contact, Inhalation, Ingestion**Effects of Acute Exposure to Product:***Skin Contact* - Irritation.*Skin Absorbtion* - Not likely to be absorbed in toxic amounts under normal use.*Eye Contact* - Irritation.*Inhalation* - Irritation. May cause dizziness, light-headedness and / or headaches.*Ingestion* - May cause irritation of the mouth and G.I. tract.**Effects of Chronic Exposure to Product:** Dermatitis.**Exposure Limits (TLV):**

Trichloroethylene 50 ppm TWA and 100 ppm STEL - ACGIH 2005

Toluene 50 ppm TWA (skin) - ACGIH 2005

Octylphenoxypolyethoxyethanol N / AV - ACGIH 2005

Irritancy: Skin, eyes, and respiratory tract.**Sensitization:** N / AV**CARCINOGENICITY:** Trichloroethylene is not listed as a human carcinogen by OSHA. It is listed by ACGIH as TLV-A5, "Not suspected as a Human Carcinogen"; by NTP as R "Reasonably Anticipated To Be A Human Carcinogen"; by IARC as 2A "Probably Carcinogenic to Humans". The remaining ingredients are not listed as a human carcinogen by OSHA, ACGIH, NTP, or IARC.**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 - Yes 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.*Clothing* - Chemical resistant apron as necessary to prevent skin contact.**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.**Special Shipping Information:** Trichloroethylene Solution, 6.1, UN1710, III

SECTION 8 - First Aid Measures

Inhalation: Remove from exposure, seek medical attention if signs/symptoms persist.**Ingestion:** Do NOT induce vomiting, drink plenty of water, 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:** 11-23-05

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.