



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:



1011 Fault-Finder Cleaner Group 1A

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: AerVOE Industries Inc.
INFORMATION PHONE: 775-782-0100
DATE REVISED: 12-27-02

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

**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
*Trichloroethylene (CAS 79-01-6)	60 - 100	100 ppm	50 ppm		4920 mg / kg (Rat-Oral) 10,000 mg / kg (Rabbit-Skin)	12,500 ppm / 4 hr (Rat-Inha)
Hydrocarbon Propellant (CAS 68476-86-8)	10 - 30	1000 ppm	1000 ppm		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 / AP = Not Applicable N / AV = Not Available

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SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING POINT: N / AP
VAPOR DENSITY: Heavier than air
EVAPORATION RATE: Faster than n-Butyl Acetate

SPECIFIC GRAVITY (H2O=1, @70°F): 1.1
SOLUBILITY IN WATER: Negligible
APPEARANCE AND ODOR: Clear and colorless liquid with Ether-like odor
FREEZING POINT: N / AV **pH:** N / AV

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: < 0° F (-18° C) **METHOD USED:** Estimated **FLAMMABLE LIMITS - LEL:** 1.8% **UEL:** 10.5%
EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, water spray.
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: Treat as cylinders of compressed gas. Closed containers may rupture due to pressure build up from extreme temperature.

SECTION V - REACTIVITY DATA

STABILITY: Stable **CONDITIONS TO AVOID:** Open flames, sparks, electrical arcs.
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agents, strong acids or bases.
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Carbon Monoxide, Carbon Dioxide, Hydrogen Chloride, and possible traces of Phosgene.
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: Painful with slight to moderate irritation.
SKIN ABSORPTION: Not likely to be absorbed in toxic amounts under normal use.
INGESTION: May cause irritation of the mouth and G.I. tract.
CARCINOGENICITY: Except for Trichloroethylene, the ingredients are not listed as a human carcinogen by ACGIH, NTP, or OSHA. Trichloroethylene is listed by IARC as 2A, "Probably Carcinogenic to Humans".
TERATOGENICITY: Not established **MUTAGENICITY:** Not established
MEDICAL CONDITION GENERALLY AGGRAVATED BY EXPOSURE: Prolonged exposure above limits may complicate existing liver & kidney diseases.
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, drink plenty of water, seek medical attention.

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: 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: 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.
EYE PROTECTION: Safety glasses or goggles.
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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MANUFACTURER'S NAME: AerVOE Industries Inc.

INFORMATION PHONE: 775-782-0100

DATE REVISED: 12-26-02

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HAZARDOUS COMPONENTS	WEIGHT PERCENT	OSHA PEL	ACGIH TLV	OTHER	LD50 SPECIES & ROUTE	LC50 SPECIES & ROUTE
*Trichloroethylene (CAS 79-01-6)	60 - 100	100 ppm	50 ppm		4920 mg / kg (Rat-Oral) 10,000 mg / kg (Rabbit-Skin)	12,500 ppm / 4 hr (Rat-Inha)

*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: 189° F (87° C)

VAPOR DENSITY: Heavier than air

EVAPORATION RATE: Slower than Ethyl Ether

SPECIFIC GRAVITY (H2O=1, @70°F): 1.5

SOLUBILITY IN WATER: Negligible

APPEARANCE AND ODOR: Clear and colorless liquid with Ether-like odor

FREEZING POINT: -124° F (-87° C)

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: None

METHOD USED: TCC

FLAMMABLE LIMITS 77° F (25° C) - LEL: 8.0% UEL: 10.5%

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, water spray.

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 temperature.

SECTION V - REACTIVITY DATA

STABILITY: Stable

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

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agents, strong acids or bases.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Carbon Monoxide, Carbon Dioxide, Hydrogen Chloride, and possible traces of Phosgene.

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: Painful with slight to moderate irritation.

SKIN ABSORPTION: Not likely to be absorbed in toxic amounts under normal use.

INGESTION: May cause irritation of the mouth and G.I. tract.

CARCINOGENICITY: The ingredients are not listed as a human carcinogen by ACGIH, NTP, or OSHA. Trichloroethylene is listed by IARC as 2A, "Probably Carcinogenic to Humans".

TERATOGENICITY: Not established

MUTAGENICITY: Most tests negative

MEDICAL CONDITION GENERALLY AGGRAVATED BY EXPOSURE: Prolonged exposure above limits may complicate existing liver & kidney diseases.

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, drink plenty of water, seek medical attention.

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: 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: In areas with poor ventilation, use a NIOSH approved air purifying 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.

EYE PROTECTION: Safety glasses or goggles.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Chemical resistant apron as necessary to prevent skin contact.

WORK / HYGIENIC PRACTICES: Avoid prolonged or repeated contact. Do not breathe vapors. Wash contaminated clothing prior to reuse.

SECTION IX - DISCLAIMER

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