



MATERIAL SAFETY DATA SHEET

Aervoe 400 Safety Solvent HD - Aerosol

FILE NO.: 9700-11
MSDS DATE: 2/24/11

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Aervoe 400 Safety Solvent HD - Aerosol
SYNONYMS:
PRODUCT CODES:

MANUFACTURER: SAS Safety Corp
DIVISION:
ADDRESS: 3031 Gardenia Ave Long Beach CA 90807

EMERGENCY PHONE: 800-255-3924
CHEMTREC PHONE:
OTHER CALLS: 562-427-2775
FAX PHONE: 800-244-1938

CHEMICAL NAME: Trichlorethylene (CAS 79-01-6), Carbon Dioxide (CAS 124-38-9)
CHEMICAL FAMILY:
CHEMICAL FORMULA:

PRODUCT USE:
PREPARED BY:

SECTION 1 NOTES:

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT: Trichlorethylene

<u>CAS NO.</u>	<u>% WT</u>	<u>% VOL</u>	<u>SARA 313 REPORTABLE</u>
CAS 79-01-6	60-100		
	<u>ppm</u>	<u>mg/m3</u>	
OSHA PEL-TWA:	100		
OSHA PEL STEL :			
OSHA PEL CEILING:			
ACGIH TLV-TWA:	50		
ACGIH TLV STEL:			
ACGIH TLV CEILING:			
LD50 SPECIES & ROUTE:	5650 mg/kg (Rat-Oral)		
LC50 SPECIES & ROUTE:	8450 ppm/4 hr (Mouse -Inha)		

INGREDIENT: Carbon Dioxide

<u>CAS NO.</u>	<u>% WT</u>	<u>% VOL</u>	<u>SARA 313 REPORTABLE</u>
CAS 124-38-9	1-5		
	<u>ppm</u>	<u>mg/m3</u>	
OSHA PEL-TWA:	5000		
OSHA PEL STEL :			
OSHA PEL CEILING:			
ACGIH TLV-TWA:	5000		
ACGIH TLV STEL:			
ACGIH TLV CEILING:			
LD50 SPECIES & ROUTE:	N/A		
LC50 SPECIES & ROUTE:	N/A		

SECTION 2 NOTES:



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SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

ROUTES OF ENTRY: Inhalation, skin, eyes, ingestion

POTENTIAL HEALTH EFFECTS

EYES: Primary irritation

SKIN: May cause irritation or burning sensation; may also cause defatting and dermatitis

INGESTION: Can cause gastrointestinal irritation, nausea, vomiting, and diarrhea

INHALATION: May cause nasal and respiratory irritation, dizziness, nausea, and possible unconsciousness

ACUTE HEALTH HAZARDS: INHALATION – Anesthetic. Irritation of the respiratory tract, or nervous system depression (characterized by headache, dizziness, nausea, or possible unconsciousness). SKIN OR EYE CONTACT – Primary irritation. Prolonged or repeated contact to skin may cause dermatitis; exercise due care.

CHRONIC HEALTH HAZARDS: See Acute Health Hazards

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: May increase myocardial irritability. Avoid epinephrine or similar drugs if at all possible.

CARCINOGENICITY

OSHA: Not listed

ACGIH:

NTP: Not listed

IARC: 2A – Probably carcinogenic to humans

OTHER:

SECTION 3 NOTES:

Teratogenicity: N/A

Mutagenicity: N/A

Toxicologically Synergistic Product: N/A

SECTION 4: FIRST AID MEASURES

EYES: Flush immediately with water for 15 minutes; seek medical attention if irritation persists.

SKIN: Wash affected area with soap and water, remove contaminated clothing, and seek medical attention if irritation persists.

INGESTION: Do NOT induce vomiting. Drink plenty of water.

INHALATION: Remove from exposure; seek medical attention if signs/symptoms persist.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

SECTION 4 NOTES:

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: 10.5%
(% BY VOLUME) **LOWER:** 8.0%

FLASH POINT: None



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F:

C:

METHOD USED: TCC

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AUTOIGNITION TEMPERATURE:

F:

C:

NFPA HAZARD CLASSIFICATION

HEALTH:

FLAMMABILITY:

REACTIVITY:

OTHER:

HMIS HAZARD CLASSIFICATION

HEALTH:

FLAMMABILITY:

REACTIVITY:

PROTECTION:

EXTINGUISHING MEDIA: CO₂, dry chemical, water fog.

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 temperatures.

HAZARDOUS DECOMPOSITION PRODUCTS:

SECTION 5 NOTES:

FLAMMABILITY: No

SENSITIVITY TO IMPACT: Do not puncture

SENSITIVITY TO STATIC DISCHARGE: Primarily vapors

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Remove all sources of ignition (flames, sparks, static electricity, and electrical sources). Ventilate area, keep unprotected personnel upwind, avoid run off into sewer by diking, and soak up with inert absorbent using non-sparking type tools.

SECTION 6 NOTES:

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: 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 7 NOTES:

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:



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VENTILATION : All application areas should be adequately ventilated in order to keep the items in SECTION II, below their exposure limits.

RESPIRATORY PROTECTION: In areas with poor ventilation, use a NIOSH approved air purifying respirator. For concentrations above the exposure limit, use a positive air supplied respirator.

EYE PROTECTION: Safety glasses with side shields are recommended to prevent eye contact.

SKIN PROTECTION: Chemical resistant rubber apron is recommended to prevent skin contact.

PROTECTIVE GLOVES : Use chemical resistant gloves such as neoprene or nitrile rubber.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Eye wash fountain and safety shower.

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

EXPOSURE GUIDELINES:

SECTION 8 NOTES:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear, colorless liquid

ODOR: Ether-like

PHYSICAL STATE: Liquid

pH AS SUPPLIED: N/A

pH (Other):

BOILING POINT: N/A

F:

C:

MELTING POINT: N/A

F:

C:

FREEZING POINT:

F: -123°

C: -86°

VAPOR PRESSURE (mmHg):

@

F:

C:

VAPOR DENSITY (AIR = 1): Heavier than air

@

F:

C:

SPECIFIC GRAVITY (H₂O = 1): 1.5

@

F:

C:

EVAPORATION RATE: Faster than n-Butyl Acetate

BASIS (=1):

SOLUBILITY IN WATER: Slight

PERCENT SOLIDS BY WEIGHT: N/A

PERCENT VOLATILE:

BY WT/ BY VOL @

F:



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C:

VOLATILE ORGANIC COMPOUNDS (VOC):

WITH WATER: LBS/GAL
WITHOUT WATER: LBS/GAL

MOLECULAR WEIGHT:

VISCOSITY:

@

F:

C:

SECTION 9 NOTES:

ODOR THRESHOLD: N/A

COEFFICIENT OF WATER/OIL DIST: N/A

SECTION 10: STABILITY AND REACTIVITY

STABLE

UNSTABLE

STABILITY: Stable

CONDITIONS TO AVOID (STABILITY): Open flames, hot glowing surfaces, or electric arcs

INCOMPATIBILITY (MATERIAL TO AVOID):

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Carbon monoxide, carbon dioxide, hydrogen chloride gas, and possible traces of phosgene

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID (POLYMERIZATION): N/A

SECTION 10 NOTES:

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

SECTION 11 NOTES:

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:

SECTION 12 NOTES:

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of in accordance with local, state, and federal regulations. Do not incinerate closed containers.

RCRA HAZARD CLASS:

SECTION 13: DISPOSAL CONSIDERATIONS (con't)



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SECTION 13 NOTES:

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME:
HAZARD CLASS:
ID NUMBER:
PACKING GROUP:
LABEL STATEMENT:

WATER TRANSPORTATION

PROPER SHIPPING NAME:
HAZARD CLASS:
ID NUMBER:
PACKING GROUP:
LABEL STATEMENTS:

AIR TRANSPORTATION

PROPER SHIPPING NAME:
HAZARD CLASS:
ID NUMBER:
PACKING GROUP:
LABEL STATEMENTS:

OTHER AGENCIES:

SECTION 14 NOTES:

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT):

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

311/312 HAZARD CATEGORIES:

313 REPORTABLE INGREDIENTS:

STATE REGULATIONS:

INTERNATIONAL REGULATIONS:

SECTION 15 NOTES:

SECTION 16: SPECIAL PRECAUTIONS

Hygienic Practices in Handling/Storage:

Precautions for Repair/Maintenance of Contaminated Equipment:

Other Precautions:



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SECTION 16 NOTES:

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SECTION 18: OTHER INFORMATION

OTHER INFORMATION:

PREPARATION INFORMATION:

DISCLAIMER: