



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 Aerove aerosol product.

PRODUCT NAME: 400 Safety Solvent HD

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: Aerove Industries Inc.
INFORMATION PHONE: 775-782-0100
DATE REVISED: 4-29-08

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

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
*Trichlorethylene (CAS 79-01-6)	60 -100	100 ppm	50 ppm		5650 mg / kg (Rat-Oral)	8450 ppm / 4 hr (Mouse-Inha)
Carbon Dioxide (CAS 124-38-9)	1 -5	5000 ppm	5000 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/A applies to not available or not applicable

SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING POINT: N / A
ODOR THRESHOLD: N/A
EVAPORATION RATE: Faster than n-Butyl Acetate
SPECIFIC GRAVITY (H20=1): 1.5
VAPOR DENSITY: Heavier than air
APPEARANCE AND ODOR: Clear, Colorless Liquid with Ether-like odor
COEFFICIENT OF WATER/OIL DIST: N/A
SOLUBILITY IN WATER: Slight
FREEZING POINT: -123° F (-86° C) **pH:** N/A

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: None
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.
FLAMMABILITY: No **SENSITIVITY TO IMPACT:** Do not puncture **SENSITIVITY TO STATIC DISCHARGE:** Primarily vapors
METHOD USED: TCC
FLAMMABLE LIMITS IN AIR BY VOLUME - LOWER: 8.0% **UPPER:** 10.5%

SECTION V - REACTIVITY DATA

STABILITY: Stable
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: Open flames, hot glowing surfaces or electric arcs.

SECTION VI - HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: May cause nasal & respiratory irritation, dizziness, nausea and possible unconsciousness.
SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE: SKIN - May cause irritation or burning sensation.
 EYES - Primary irritation.
SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: May cause irritation, defatting, burning sensation and dermatitis.
INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: Can cause gastrointestinal irritation, nausea, vomiting, and diarrhea.
HEALTH HAZARDS (ACUTE AND CHRONIC): 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.
CARCINOGENICITY: Trichloroethylene is not listed by NTP or OSHA. Trichloroethylene is listed by IARC as 2A "Probably Carcinogenic to Humans".
TERATOGENICITY: N/A **MUTAGENICITY:** N/A **TOXICOLOGICALLY SYNERGISTIC PRODUCT:** N/A
MEDICAL CONDITION GENERALLY AGGRAVATED BY EXPOSURE: May increase myocardial irritability. Avoid Epinephrine or similar drugs if at all possible.
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, seek medical attention if irritation persists.
 INGESTION - Do NOT induce vomiting. Drink plenty of water.

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, keep unprotected personel upwind, 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: In areas with poor ventilation, use a NIOSH approved Air Purifying Respirator. For concentrations above the exposure limit, use a positive air supplied respirator.
VENTILATION: All application areas should be adequately ventilated in order to keep the items in SECTION II below their exposure limits.
PROTECTIVE GLOVES: Chemical resistant gloves such as Neoprene or Nitrile rubber.
EYE PROTECTION: Safety glasses with side shields are recommended to prevent eye contact.
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Chemical resistant apron (rubber) is recommended to prevent skin contact. Eye wash fountain and safety shower.
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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**SECTION II - HAZARDOUS INGREDIENTS / SARA III INFORMATION
 OCCUPATIONAL EXPOSURE LIMITS**

HAZARDOUS COMPONENTS	WEIGHT PERCENT	OSHA PEL	ACGIH TLV	LD50 SPECIES & ROUTE	LC50 SPECIES & ROUTE
*Trichloroethylene (CAS 79-01-6)	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/A applies to not available or not applicable

SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING POINT: 188° F (87° C) **SPECIFIC GRAVITY (H20=1):** 1.5 **COEFFICIENT OF WATER/OIL DIST:** N / AV
ODOR THRESHOLD: N / AV **VAPOR DENSITY:** Heavier than air **SOLUBILITY IN WATER:** Slight
EVAPORATION RATE: Slower than ether **APPEARANCE AND ODOR:** Clear, colorless liquid with ether-like odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: None **METHOD USED:** TCC **FLAMMABLE LIMITS IN AIR BY VOLUME - LOWER:** 8.0% **UPPER:** 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 heat or fire.
FLAMMABILITY: Product does not meet flammable category requirements.
SENSITIVITY TO IMPACT: Product will leak if container is punctured **SENSITIVITY TO STATIC DISCHARGE:** Primarily vapors

SECTION V - REACTIVITY DATA

STABILITY: Stable **CONDITIONS TO AVOID:** Open flames, sparks, electrical arcs.
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agents.
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Carbon Dioxide, Carbon Monoxide, Hydrogen Chloride gas 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: Not likely in normal use but swallowing large amounts may be harmful.
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".
TERATOGENICITY: Not established **MUTAGENICITY:** 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.
 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 if irritation persists.

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 . Do not store or use near heat, sparks or flame.
OTHER PRECAUTIONS: Do not smoke while using this product.

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: None
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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