



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.

PRODUCT NAME: 415 CONTACT CLEANER (F)

PRODUCT CODE: 52A1

HMS CODES: H F R P
2 3 1 X

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: AerVOE-Pacific Company, Inc.

ADDRESS: 1198 Mark Circle, Gardnerville, NV 89410

INFORMATION PHONE: 775-782-0100

EMERGENCY PHONE: 1-800-424-9300

DATE REVISED: 09-01-00

REASON REVISED: Updated

SECTION II - HAZARDOUS INGREDIENTS / SARA III INFORMATION OCCUPATIONAL EXPOSURE LIMITS

HAZARDOUS COMPONENTS	WEIGHT PERCENT	OSHA PEL			LD50 SPECIES & ROUTE		LC50 SPECIES & ROUTE
		OSHA PEL	ACGIH TLV	OTHER			
*HEXANE (CAS 110 54 3)	85	50 PPM	50 PPM		28,710 mg / kg RAT (ORAL)		N/A
DENATURED ETHANOL (CAS 64 17 5)	10	1000 PPM	1000 PPM		N/A		N/A
*METHANOL (CAS 67 56 1)	4	200 PPM skin	200 PPM skin	250 PPM STEL	5628 mg / kg RAT (ORAL)		64,000 PPM; 4 hr RAT (INHA)
CARBON DIOXIDE (CAS 124 38 9)	<5.0%	5000 PPM	30,000 PPM	DFG-MAK:5000PPM	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

PRODUCT CODE: 52A1

SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING POINT: 140° F / 60° C

SPECIFIC GRAVITY (H20=1): 0.7

COEFFICIENT OF WATER/OIL DIST: N/A

ODOR THRESHOLD: N/A

VAPOR DENSITY: Heavier than air

SOLUBILITY IN WATER: Negligible

EVAPORATION RATE: Faster than n-Butyl Acetate

APPEARANCE AND ODOR: Clear Liquid / Solvent Based Odor

FREEZING POINT: N/A
pH: 4.0

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 0° F / -18° C

METHOD USED: Estimated

FLAMMABLE LIMITS IN AIR BY VOLUME - LOWER: 1.0% **UPPER:** 36.5%

EXTINGUISHING MEDIA: Water Fog

SPECIAL FIRE FIGHTING PROCEDURES: Water spray may be ineffective, but 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: Closed containers may explode due to pressure build up from extreme heat or fire. Aerosol spray is extremely flammable.

FLAMMABILITY: Yes - Flammable aerosol under conditions of sparks, flame, or hot surfaces.

SENSITIVITY TO IMPACT: Do not puncture

SENSITIVITY TO STATIC DISCHARGE: Primarily vapors

SECTION V - REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: High temperatures

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agents

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Carbon Monoxide and Carbon Dioxide

HAZARDOUS POLYMERIZATION: Will not occur

SECTION VI - HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: May cause dizziness or nausea.

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 or burning sensation.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: N/A

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: None known

NTP? No

IARC MONOGRAPHS? No

OSHA REGULATED? No

TERATOGENICITY: N/A

MUTAGENICITY: N/A

TOXICOLOGICALLY SYNERGISTIC PRODUCT: N/A

MEDICAL CONDITION GENERALLY AGGRAVATED BY EXPOSURE: None known

EMERGENCY AND FIRST AID PROCEDURES: VAPORS - Remove from exposure and restore breathing, seek medical attention.

SPLASH - (SKIN) Wash affected area, remove contaminated clothing, see physician if any irritation persists.

SPLASH - (EYES) Flush immediately with water for 15 minutes and take to a physician.

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, 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: Outdoors - Recommend an approved mechanical particulate filter to remove any airborne overspray. In restricted areas with poor ventilation, use a NIOSH approved Organic Cartridge 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: Impervious gloves (natural rubber) are recommended to prevent skin contact.

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

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Impervious apron (natural 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.



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.

PRODUCT NAME: (52B1) 415 CONTACT CLEANER
PRODUCT USE: CLEANER

PRODUCT CODE: 52B1

HMIS CODES: H F R P
2 3 0 X

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: AerVOE-Pacific Company, Inc.
INFORMATION PHONE: (775) 782-0100
DATE REVISED: 06-15-00

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			LD50 SPECIES & ROUTE		LC50 SPECIES & ROUTE
		OSHA PEL	ACGIH TLV	OTHER			
*HEXANE (CAS 110 54 3)	85	50 PPM	50 PPM		28,710 mg / kg RAT (ORAL)		N/A
DENATURED ETHANOL (CAS 64 17 5)	10	1000 PPM	1000 PPM		N/A		N/A
*METHANOL (CAS 67 56 1)	4	200 PPM skin	200 PPM skin	250 PPM STEL	5628 mg / kg RAT (ORAL)		64,000 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

PRODUCT CODE: 52B1

SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING POINT: 150° to 230° F / 66° to 110° C
ODOR THRESHOLD: N/A
EVAPORATION RATE: Faster than n-Butyl Acetate
COATING V.O.C. : 6.97 lbs / Imp gal

SPECIFIC GRAVITY (H20=1): 0.7
VAPOR DENSITY: Heavier than air
APPEARANCE AND ODOR: Clear Liquid / Solvent Based Odor
5.80 lbs / US gal
695 gms / ltr

COEFFICIENT OF WATER/OIL DIST: N/A
SOLUBILITY IN WATER: Negligible
FREEZING POINT: N/A
pH: N/A

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 0° F
EXTINGUISHING MEDIA: Foam, Alcohol Foam, CO2, Dry Chemical, Water Fog
SPECIAL FIRE FIGHTING PROCEDURES: Water spray may be ineffective, but water spray may be used to cool containers exposed to heat or fire to prevent pressure build up.

METHOD USED: Estimated
FLAMMABLE LIMITS IN AIR BY VOLUME - LOWER: 1.0%
UPPER: 36.5%

UNUSUAL FIRE AND EXPLOSION HAZARDS - Closed containers may explode due to pressure build up from extreme heat or fire.
FLAMMABILITY - T.D.G.R. CLASS: Flammable Liquid N.O.S. (HEXANE), Class 3, UN1993, PG II
SENSITIVITY TO IMPACT: Do not puncture
SENSITIVITY TO STATIC DISCHARGE: Primarily vapors

SECTION V - REACTIVITY DATA

STABILITY: Stable
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agents
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Carbon Monoxide and Carbon Dioxide
HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: High temperatures

SECTION VI - HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: May cause dizziness or nausea.
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 or burning sensation.
INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: N/A
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: None known
TERATOGENICITY - N/A
MUTAGENICITY - N/A
IARC MONOGRAPHS? No
OSHA REGULATED? No
TOXICOLOGICALLY SYNERGISTIC PRODUCT - N/A
MEDICAL CONDITION GENERALLY AGGRAVATED BY EXPOSURE: None known
EMERGENCY AND FIRST AID PROCEDURES - VAPORS: Remove from exposure and restore breathing, seek medical attention.
SPLASH: (SKIN) Wash affected area, remove contaminated clothing, see physician if any irritation persists.
SPLASH: (EYES) Flush immediately with water for 15 minutes and take to a physician.

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 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. In addition to all other hazards and precautions - dust from sanding the dry paint films should be treated as a nuisance dust with a **TLV of 10mg/cubic meter.**

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION - Outdoors: Recommend an approved mechanical particulate filter to remove any airborne overspray. In restricted areas with poor ventilation, use a NIOSH approved Organic Cartridge Respirator.
VENTILATION: All application areas should be adequately ventilated in order to keep the items in SECTION II below their exposure limits.
PROTECTIVE GLOVES: Impervious gloves (natural rubber) are recommended to prevent skin contact.
EYE PROTECTION: Safety glasses with side shields are recommended to prevent eye contact.
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Impervious apron (natural 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

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.