



Material Safety Data Sheet

7340 All-4 March 18, 2008

7340MB

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.

This MSDS covers the following AerVOE bulk product.

PRODUCT NAME:



7340 All-4

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: AerVOE Industries Inc.
INFORMATION PHONE: 775-782-0100
DATE REVISED: March 18, 2008

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	LD50 SPECIES & ROUTE	LC50 SPECIES & ROUTE
Aliphatic Petroleum Distillates (CAS 64742-47-8)	60 - 80	N / AV	200 mg/m ³ - TWA (skin)	N / AV	N / AV

No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present.

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

SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING POINT: > 240° F (115.6° C)
VAPOR DENSITY: Heavier than air
EVAPORATION RATE: Slower than n-Butyl Acetate
SPECIFIC GRAVITY (H20=1, @70°F): 0.8
SOLUBILITY IN WATER: Negligible
APPEARANCE AND ODOR: Light amber with a petroleum odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 172° to 175°F (77.7° to 79.4° C)
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.
FLAMMABILITY: This material is not considered combustible per 16 CFR 1500.3(c)(6).
SENSITIVITY TO IMPACT: Product will leak if container is punctured.
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, Carbon Dioxide.
HAZARDOUS POLYMERIZATION: Will not occur
CONDITIONS TO AVOID: Open flames, sparks, electrical arcs.

SECTION VI - HEALTH HAZARD DATA

INHALATION: Respiratory tract irritant. May cause dizziness, light-headedness and / or headaches. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.
SKIN CONTACT: Prolonged or repeated contact may cause irritation and dermatitis.
EYE CONTACT: Painful with slight to moderate irritation.
INGESTION: May be harmful or fatal if swallowed.
EFFECTS OF CHRONIC OVEREXPOSURE: Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. Repeated overexposure can also damage kidneys, lungs, liver, heart and blood.
CARCINOGENICITY: The ingredients are not listed as a human carcinogen by IARC, ACGIH, NTP, or OSHA.
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. Contact physician or poison control center immediately.

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 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: 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.

7340MB



Material Safety Data Sheet

7340MA

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.

This MSDS covers the following AerVOE aerosol product.

PRODUCT NAME:



7340 All-4

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: AerVOE Industries Inc.
INFORMATION PHONE: 775-782-0100
DATE REVISED: 03-18-08

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	LD50 SPECIES & ROUTE	LC50 SPECIES & ROUTE
Aliphatic Petroleum Distillates (CAS 64742-47-8)	60 - 80	N / AV	200 mg/m ³ - TWA (skin)	N / AV	N / AV
Carbon Dioxide (CAS 124-38-9)	7 - 13	5000 ppm	5000 ppm	N / AV	N / AV

No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present.

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

SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING POINT: N / AP
VAPOR DENSITY: Heavier than air
EVAPORATION RATE: Slower than Ether

SPECIFIC GRAVITY (H20=1, @70°F): 0.81
SOLUBILITY IN WATER: Negligible
APPEARANCE AND ODOR: Clear light yellow with hydrocarbon odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 172° to 175°F (77.7° to 79.4° C) conc. only
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.
FLAMMABILITY: Flammable aerosol under conditions of sparks, flame, or hot surfaces.
SENSITIVITY TO IMPACT: Aerosol cans are under pressure. Product will be expelled rapidly if container is punctured.
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, Carbon Dioxide.
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: The ingredients are not listed as a human carcinogen by IARC, ACGIH, NTP, or OSHA.
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.

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 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: 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.

7340MA

Product Data Sheet

No. 27340 - 07/10

ALL-4

AEROSOL & BULK LIQUID

PRODUCT NUMBERS: 7370 - 10 OZ. NET WEIGHT AEROSOL

Product number plus letter designation is as follows:
G = 1 one gallon can; F = 1 five-gallon pail; D = 55-gallon drum

I. GENERAL DESCRIPTION

Description: Crown All-4 is a multipurpose lubricant that displaces moisture, cleans, penetrates, lubricates, and protects. Low surface tension yields complete penetration and permits the lubricant to travel easily into small cracks and along threaded fasteners. It displaces moisture and penetrates deep to loosen scale and rust on frozen or sticking parts.

Benefits: Eliminates the need for silicones or oils that leave a gummy residue. All-4 cleans away dirt, grease, and grime in one operation, increasing the speed and efficiency of cold cleaning. Lubricates moving and sliding parts with a silicone-free lubricant that won't harm plastics, metal, or insulated parts. Fills microscopic irregularities on surfaces and forms a protective barrier against future corrosion and moisture damage. Meets Mil - C - 16173E grade III. All-4 features the any-way spray valve that allows aerosol to be applied in either an upright or upside down position.

Applications: Use on bulbs and sockets, circuit breakers, cables, elevators, generators, ignition systems, lift trucks, coils, vending machines, lawn mowers, machinery, spare parts, nuts and bolts, wheels, bicycles, transformers, etc.

Directions: Use at room temperature for best results. Capillary action will cause film to cover areas thoroughly. Aerosol: Shake can well before use. Hold can 10" to 14" from surface. Apply film to entire area to be cleaned or protected. Bulk: Apply (brush, dip, etc.) film to entire area to be cleaned or protected.

Limitations: Please refer to the Material Safety Data Sheet for specific information on material hazards, etc.

Packaging:

Aerosol:	Cans (211 x 604)	10 oz. net wt. (283 grams)	12 fl. oz. (349 ml)
	Case-12 cans/case	13 lbs (5.9 kg)	0.47 CF (.013 CM)
Liquid Bulk:	1 case of 1 gallon (pl/f)	8 lbs (3.6 kg)	1 CF (.028 CM)
	5-gallon pails (m/r)	39 lbs. (17.7 kg)	1.2 CF (.034CM)
	55-gallon drum (m/r)	387 lbs.(176 kg)	8.5 CF (.24CM)

II. CHARACTERISTICS & PROPERTIES

Specification:

Meets Mil-C-16173E grade III

Appearance:

Non foaming liquid

Color:

Light Amber

Odor:

Mild - Hydrocarbon

Dry Schedule:

Not applicable

Performance and Chemical Properties:

	Aerosol	Bulk
Weight per gallon	6.7 lbs.....	6.9 lbs
Specific gravity	0.81	0.83
Viscosity in centipoise @ 70°F (21°C)	NA.....	8.5 cPs@60rpm Sp#2
Flammability: Label marking	Extremely Flammable.....	Combustible
Flash point.....	172-175°F (78-79°C).....	172-175°F (78-79°C)
Active ingredients by weight.....	97%	100 %
Volatile Organic Compound level.....	70%	72 %
Operating temperature range.....	40 to 110°F (5 to 43°C).....	40 to 110°F (5 to 43°C)
Pour point.....	Not applicable.....	< 0°F (-18 °C)
Dielectric strength.....	>33 kV/mm	>33 kV/mm
Lubricity (FALEX FLC Test).....	50 ft.lbs.....	50 ft.lbs.
Penetrating ability.....	Excellent.....	Excellent
Corrosion protection.....	Excellent.....	Excellent
Food contact rating	Not applicable.....	Not applicable

Base Materials:.....Aliphatic Petroleum Distillates, Mineral Oil

Propellant system:Carbon Dioxide.....Not applicable

III. SHIPPING, STORAGE AND HEALTH

	Aerosol	Bulk
IMDG number.....	1950.....	Not applicable
D.O.T. container spec.....	2P	1A1, 1A2
D.O.T. shipping description	Consumer commodity.....	Not Regulated
Warehouse storage level number	NFPA 30B Level 2.....	Combustible Liq class IIIA
Hazardous class (CFR-49).....	ORM-D.....	Not Regulated
Storage temperature	32-120°F (0-49°C)	32-120°F (0-49°C)
Shelf life	1-5 years.....	1-5 years
HMIS ratings		
Health	1	1
Fire.....	2.....	2
Reactivity	0.....	0

IV. MISCELLANEOUS

Contains no Ozone Depleting Substances (O.D.S.)

V. WARRANTY

The statements made herein, on labels, product bulletins or by any of our employees or agents concerning this material are given for information only. Any liability whatsoever of Aervoe Industries, Inc. to the user of the product, is limited to replacement of the product or purchase price refunded.

NO. 27340 - 07/10