



Material Safety Data Sheet

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:



9130 Nickel Antiseize

SECTION I - SUPPLIER IDENTIFICATION

NAME: AerVOE Industries Inc.
INFORMATION PHONE: 775-782-0100
DATE REVISED: 03-04-03

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	CAS #	WEIGHT PERCENT	OSHA PEL	ACGIH TLV	OTHER
Heptane	142-82-5	35	400 ppm	400 ppm	
Lubricating Grease	Mixture	18	1 mg / m ³	N / AV	
Petroleum Oil	64742-65-0	10	5 mg / m ³ (As Oil Mist)	N / AV	
*Nickel Flake	7440-02-0	9	1 mg / m ³	N / AV	
Synthetic Graphite	7782-42-5	8	15 mg / m ³ (As Respirable Dust)	N / AV	10 mg / m ³ (TWA)
Propane	74-98-6	11	1000 ppm	Aphyxiant	
	Butane	106-97-8	9	800 ppm	800 ppm

*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: N / AP
VAPOR DENSITY: Heavier than air
EVAPORATION RATE: N / AV

SPECIFIC GRAVITY (H20=1, @70°F): 0.8
SOLUBILITY IN WATER: Negligible
APPEARANCE AND ODOR: Metallic gray with petroleum odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: < 0° F (-18° C)
EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, water spray.
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 heat or fire.

SECTION V - REACTIVITY DATA

STABILITY: Stable
INCOMPATIBILITY (MATERIALS TO AVOID): Reducing agents, strong mineral acids.
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: May produce fumes when heated to decomposition that may contain Carbon Monoxide.
HAZARDOUS POLYMERIZATION: Will not occur

SECTION VI - HEALTH HAZARD DATA

INHALATION: Respiratory tract irritant. May cause headaches, nausea, fatigue, drowsiness, impaired co-ordination.
SKIN CONTACT: Prolonged or repeated contact may cause irritation and dermatitis.
EYE CONTACT: Painful with moderate to severe irritation.
SKIN ABSORPTION: Not likely to be absorbed in toxic amounts under normal use.
INGESTION: Not a likely route of exposure.
CARCINOGENICITY: Other than Nickel, the ingredients are not listed as a human carcinogen by IARC, ACGIH, NTP, or OSHA. Nickel Powder is listed under IARC as 2B, "Possibly Carcinogenic to Humans", NTP as R, "Reasonably Anticipated To Be A Human Carcinogen".
TERATOGENICITY: N / AV **MUTAGENICITY:** N / AV
MEDICAL CONDITION GENERALLY AGGRAVATED BY EXPOSURE: N / AV
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, 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: None under normal use. 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 under normal use.
WORK / HYGIENIC PRACTICES: Avoid prolonged or repeated contact. Do not breathe vapors. Wash contaminated clothing prior to reuse. Do not smoke while using this product.

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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9132 Nickel Antiseize

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HAZARDOUS COMPONENTS	CAS #	WEIGHT PERCENT	OSHA PEL	ACGIH TLV	OTHER
Petroleum Oil	64742-65-0	40	5 mg / m ³ (As Oil Mist)	N / AV	
*Nickel Flake	7440-02-0	20	1 mg / m ³	N / AV	
Natural Graphite	7782-42-5	17	15 mg / m ³ (As Respirable Dust)	N / AV	10 mg / m ³ (TWA)
Petroleum Oil	64742-54-7	17	1 mg / m ³	N / AV	

*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: 500° F (260° C)
VAPOR DENSITY: Heavier than air
EVAPORATION RATE: Slower than ether
APPEARANCE AND ODOR: Metallic gray heavy paste with slight petroleum odor

SPECIFIC GRAVITY (H2O=1, @70°F): 1.24
SOLUBILITY IN WATER: Negligible

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 325° F (163° C) **METHOD USED:** COC **FLAMMABLE LIMITS - LEL:** 0.9% **UEL:** 10.0%
EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, water spray.
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: Closed containers may rupture due to pressure build up from extreme heat or fire.

SECTION V - REACTIVITY DATA

STABILITY: Stable
CONDITIONS TO AVOID: Prolonged exposure to heat.
INCOMPATIBILITY (MATERIALS TO AVOID): Fluorine, ammonium nitrite, hydrazine, ammonia, hydrogen + dioxane, formic acid, phosphorus, selenium, sulfur, perchlorates. Nickel will react slowly with hydrochloric and sulfuric acids, and is somewhat more reactive with nitric acid. Under certain conditions, hydrogen gas may be liberated. This can form an explosive mixture with air if not dissipated.
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: May produce fumes when heated to decomposition that may contain Carbon Monoxide and other toxic fumes.
HAZARDOUS POLYMERIZATION: Will not occur

SECTION VI - HEALTH HAZARD DATA

INHALATION: May be irritating to respiratory tract.
SKIN CONTACT: Prolonged or repeated contact may cause irritation and dermatitis.
EYE CONTACT: May cause mechanical eye irritation, tearing, and redness.
SKIN ABSORPTION: Not likely to be absorbed in toxic amounts under normal use.
INGESTION: Irritating to mouth, throat, and stomach. May cause nausea and vomiting.
CARCINOGENICITY: Other than Nickel, the ingredients are not listed as a human carcinogen by IARC, ACGIH, NTP, or OSHA. Nickel Powder is listed under IARC as 2B, "Possibly Carcinogenic to Humans", NTP as R, "Reasonably Anticipated To Be A Human Carcinogen".
TERATOGENICITY: N / AV **MUTAGENICITY:** N / AV
MEDICAL CONDITION GENERALLY AGGRAVATED BY EXPOSURE: N / AV
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 one glass of water or milk, 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.
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OTHER PRECAUTIONS: Do not smoke while using this product.

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RESPIRATORY PROTECTION: None under normal use. 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 under normal use.
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