

H.M.I.S.	
Health:	1
Flammability:	1
Reactivity:	0
Personal Protection:	B
These ratings should be used only as a part of a fully implemented H.M.I.S. program.	

## Material Safety Data Sheet

### Section I - Product Identification

Trade Name and Synonyms <b>AEON 4000</b>	Part Numbers: <b>28H57, 28H36, 28H253, 28H252</b>	Health Emergency Phone Number <b>(217) 222-5400</b>		
Manufacturer's Name Gardner Denver, Inc.		Safety Department		
Address 1800 Gardner Expressway - Quincy, IL 62301		Code: 490-020, AEON	On the DSL	On TSCA List
Product Identification Lubrication of air and inert gas compressors of the reciprocating, rotary screw, and rotary vane types. This compressor oil should <b>NEVER</b> be used in equipment compressing pure oxygen.		Transport Emergency Phone Number <b>(800) 424-9300 (CHEMTREC)</b>		

### Section II - Composition and Information on Ingredients

Name	CAS #	% (V/V)	Exposure Limits (ACGIH)		
			TLV-TWA (8 h)	STEL	CEILING
Severely hydrotreated paraffinic oil and additives (C23-C45)	72623-87-1, 72623-85-9	100	5 mg/m <sup>3</sup> (oil mist)	10 mg/m <sup>3</sup> (oil mist)	Not Established
Manufacturer Recommendation: Not applicable					
Other Exposure Limits: Consult local, state, provincial or territory authorities for acceptable exposure limits.					

### Section III - Hazards Identification

Potential Health Effects:	Non irritating to slight transient irritation to skin and eyes, but no permanent damage. This product has a low vapor pressure and is not expected to present an inhalation exposure at ambient conditions. Upon heating to high temperatures, or mechanical actions which may produce vapors or mists, inhalation of this product may cause irritation of the breathing passages. Low toxicity on ingestion. Has laxative effect. For more information, refer to Section 11.
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### Section IV - First Aid Measures

Eye Contact:	Check for and remove any contact lenses. DO NOT use an eye ointment. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek medical attention.
Skin Contact:	Remove contaminated clothing - launder before reuse. Wash gently and thoroughly the contaminated skin with running water and non-abrasive soap. Discard saturated leather articles. Seek medical attention.
Inhalation:	Evacuate the victim to a safe area as soon as possible. Allow the victim to rest in a well ventilated area. Administer oxygen if available. If the victim is not breathing, perform mouth-to-mouth resuscitation. If resuscitation is required, physician assessment is mandatory.
Ingestion:	DO NOT induce vomiting because of danger of aspirating liquid into lungs. Force fluids. Activated charcoal tablets.
Note to physician:	Not available.

### Section V - Fire-Fighting Measures

Flammability:	May be combustible at high temperature.	Flammable Limits:	Not available
Flash Points:	OPEN CUP: 246°C (474.8°F) (Cleveland)	Auto-Ignition Temperature:	>350°C (662°F)
Fire Hazards in Presence of Various Substances:	Low fire hazard. This material must be heated before ignition will occur. Avoid contact with strong oxidizing agents, including peroxides, chlorine, and strong acids.	Explosion Hazards in Presence of Various Substances:	Do not cut, weld, heat, drill, or pressurize empty container. Containers may explode in heat of fire.
Products of Combustion:	Carbon oxides (CO, CO <sup>2</sup> ), nitrogen oxides (NO <sub>x</sub> ), sulfur oxides (SO <sub>x</sub> ), phosphorous compounds (PO <sub>x</sub> ), smoke and irritating vapors as products of incomplete combustion.		

<b>Fire Fighting Media and Instructions:</b>	NAERG96, GUIDE 171, Substances (low to moderate hazard). If tank, rail car, or tank truck is involved in a fire, ISOLATE for 800 meters (0.5 mile) in all directions; also, consider initial evacuation for 800 meters (0.5 mile) in all directions. Shut off fuel to fire if it is possible to do so without hazard. If this is impossible, withdraw from area and let fire burn out under controlled conditions. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tank due to fire. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition, or explosion. <b>SMALL FIRE:</b> use DRY chemicals, CO <sub>2</sub> , water spray or foam. <b>LARGE FIRE:</b> use water spray, fog or foam. For small outdoor fires, which may be easily extinguished with a portable fire extinguisher, use of a SCBA may not be required. Respiratory and eye protection required for fire fighting personnel. A self-contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires.
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## Section VI - Accidental Release Measures

<b>Material Release or Spill:</b>	NAERG96, GUIDE 171, Substances (low to moderate hazard). <b>ELIMINATE ALL IGNITION SOURCES.</b> Avoid contact. Stop leak if without risk. Contain spill. Absorb with inert absorbents, dry clay, or diatomaceous earth. Avoid inhaling dust of diatomaceous earth for it may contain silica in very fine particle size, making this a potential respiratory hazard. Place used absorbent in closed metal containers for later disposal or burn absorbent in a suitable combustion chamber, <b>DO NOT FLUSH TO SEWERS, STREAMS, OR OTHER BODIES OF WATER.</b> Check with applicable jurisdiction for specific disposal requirements of spilled material and empty containers. Notify the appropriate authorities immediately.
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## Section VII - Handling and Storage

<b>Handling:</b>	Avoid inhalation and skin contact especially when handling used oil. Keep away from sources of ignition. DO NOT reuse empty containers without commercial cleaning or reconditioning. Practice good personal hygiene. Wash hands after handling and before eating. Launder work clothes frequently. Discard saturated leather goods.
<b>Storage:</b>	Store in tightly closed containers in cool, dry, isolated, well-ventilated area, and away from incompatibles.

## Section VIII - Exposure Controls/Personal Protection

<b>Engineering Controls:</b>	For normal application, special ventilation is not necessary. If user's operations generate vapors or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. Make-up air should always be supplied to balance air removed by exhaust ventilation. Ensure that eyewash station and safety shower are close to work-station.
<b>Personal Protection:</b>	<i>The selection of personal protective equipment varies, depending upon conditions of use.</i>
<b>Eyes</b>	Eye protection (i.e., safety glasses, safety goggles and/or face shield) should be determined based on conditions of use. If product is used in an application where splashing may occur, the use of safety goggles and/or a face shield should be considered.
<b>Body</b>	Wear appropriate clothing to prevent skin contact. As a minimum, long sleeves and trousers should be worn.
<b>Respiratory</b>	Where concentrations in air may exceed the occupational exposure limits given in Section 2 (and those applicable to your area) and where engineering, work practices or other means of exposure reduction are not adequate, NIOSH approved respirators may be necessary to prevent overexposure by inhalation.
<b>Hands</b>	Wear appropriate chemically protective gloves. When handling hot product ensure gloves are heat resistant and insulated.
<b>Feet</b>	Wear appropriate footwear to prevent product from coming in contact with feet and skin.

## Section IX - Physical and Chemical Properties

<b>Physical State and Appearance:</b>	Liquid (Viscous Liquid)	<b>Viscosity:</b>	46.6 cSt @ 40°C (104°F), 7.0 cSt @ 100°C (212°F), VI=107
<b>Color:</b>	Green	<b>Pour Point:</b>	-33°C
<b>Odor:</b>	Mild petroleum oil like.	<b>Softening Point:</b>	Not applicable
<b>Odor Threshold:</b>	Not Available	<b>Dropping Point:</b>	Not applicable
<b>Boiling Point:</b>	Not Available	<b>Penetration:</b>	Not applicable
<b>Density:</b>	0.8656 kg/L @ 15°C (59°F)	<b>Oil/Water Dist. Coeff.:</b>	Not available
<b>Vapor Density:</b>	Not available	<b>Ionicity (in water):</b>	Not available
<b>Vapor Pressure:</b>	Negligible at ambient temperature and pressure.	<b>Dispersion Properties:</b>	Not available
<b>Volatility:</b>	Non-volatile	<b>Solubility:</b>	Insoluble in water

## Section X - Stability and Reactivity

<b>Corrosivity:</b>	Copper corrosion, 3h, 100°C (ASTM D0130): 1a		
<b>Stability:</b>	The product is stable under normal handling and storage conditions.	<b>Hazardous Polymerization:</b>	Will not occur under normal working conditions.
<b>Incompatible Substances/Conditions to Avoid:</b>	Reactive with oxidizing agents, reducing agents, acids, and alkalis.	<b>Decomposition Products:</b>	May release COx, POx, NOx, methacrylate monomers, smoke and irritating vapors when heated to decomposition.

## Section XI - Toxicological Information

<b>Routes of Entry:</b>	Eye contact, inhalation, ingestion, skin contact
<b>Acute Lethality:</b>	Based on toxicity of components: Acute oral toxicity (LD50): >5000 mg/kg (rat) Acute dermal toxicity (LD50): >2000 mg/kg (rabbit) Acute inhalation toxicity (LD50): >2500 mg/m <sup>3</sup> /4h (rat)
<b>Chronic or Other Toxic Effects:</b>	
<b>Dermal Route:</b>	Prolonged or repeated contact may cause skin irritation characterized by dermatitis or oil acne.
<b>Inhalation Route:</b>	Negligible breathing hazard at normal temperatures (up to 38°C) or recommended blending temperatures. Elevated temperatures or mechanical action may form vapors, mists, or fumes. Inhalation of oil mists or vapors from hot oil may cause irritation of the upper respiratory tract.
<b>Oral Route:</b>	Low toxicity; has laxative effect.
<b>Eye Irritation/Inflammation:</b>	Repeated or prolonged contact may produce eye irritation, but no permanent damage.
<b>Immunotoxicity:</b>	Not available
<b>Skin Sensitization:</b>	This product is not expected to be a skin sensitizer, based on the available data and the known hazards of the components.
<b>Respiratory Tract Sensation:</b>	This product is not expected to be a respiratory tract sensitizer, based on the available data and the known hazards of the components.
<b>Mutagenic:</b>	Based on actual test results of base oils and results of similar products, severely hydrotreated base oils give negative results when tested for: (a) Salmonella Typhimurium TA98 using the Modified Ames Assay for Petroleum Product; (b) Salmonella-Escherichia coli/Mammalian-Microsome Reverse Mutation Assay (Ames test) with a Confirmatory Assay; (c) Structural Chromosomal Aberrations in Chinese Hamster Ovary (CHO) Cells.
<b>Reproductive Toxicity:</b>	This product is not expected to be a reproductive hazard, based on the available data and the known hazards of the components.
<b>Teratogenicity/Embryotoxicity:</b>	This product is not expected to be a teratogen or an embryotoxin, based on the available data and the known hazards of the components.
<b>Carcinogenicity (ACGIH):</b>	This product is not known to contain any chemicals at reportable quantities that are listed as A1 or A2 carcinogens by ACGIH.
<b>Carcinogenicity (IARC):</b>	This product is not known to contain any chemicals at reportable quantities that are listed as group 1, 2A or 2B carcinogens by IARC.
<b>Carcinogenicity (NTP)</b>	This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by NTP.
<b>Carcinogenicity (IRIS)</b>	Not available
<b>Carcinogenicity (OSHA)</b>	This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by OSHA.
<b>Other Considerations:</b>	No additional Remark

## Section XII - Ecological Information

<b>Environmental Fate:</b>	Not available	<b>Persistence/Bioaccumulation Potential:</b>	Not available
<b>BOD5 and COD:</b>	Not available	<b>Products of Biodegradation:</b>	Not available
<b>Additional Remarks:</b>	No additional remark		





### Section XIII - Disposal Considerations

<b>Waste Disposal:</b>	Spent/used waste oil may meet the requirements of a hazardous waste. Consult your local or regional authorities. Preferred waste management priorities are (1) recycle or reprocess; (2) incineration with energy recovery; (3) disposal at licensed waste disposal facility. Ensure that disposal or reprocessing is in compliance with government requirements and local disposal regulations.
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### Section XIV - Transport Information

<b>DOT Classification:</b>	Not a DOT controlled material (United States)	<b>Special Provisions for Transport:</b>	Not applicable
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### Section XV - Regulatory Information

<b>Other Regulations:</b>	This product is acceptable for use under the provisions of WHMIS-CPR. All components of this formulation are listed on the CEPA-DSL (Domestic Substances List). All components of this formulation are listed on the US EPA-TSCA Inventory. All components of this formulation are listed on EINECS or exempt. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR), and the MSDS contains all of the information required by the CPR. Please contact Product Safety for more information.											
<b>DSD/DPD (EEC):</b>	Not evaluated.											
<b>WHMIS (Canada):</b>	Not controlled.											
<b>HMIS (U.S.A.)</b>	1 Health Hazard 1 Fire Hazard 0 Reactivity b Personal Protection	<b>NFPA (U.S.A.)</b>	<table border="1"> <tr> <td>Health</td> <td></td> <td>Fire Hazard</td> </tr> <tr> <td></td> <td></td> <td>Reactivity</td> </tr> <tr> <td></td> <td></td> <td>Specific Hazard</td> </tr> </table>	Health		Fire Hazard			Reactivity			Specific Hazard
Health		Fire Hazard										
		Reactivity										
		Specific Hazard										
<b>Rating</b>	0 Insignificant 1 Slight 2 Moderate 3 High 4 Extreme											
<b>ADR (Europe) (Pictograms)</b>	Not evaluated for European transport.	<b>TDG (Canada) (Pictograms)</b>										

### Section XVI - Other Information

<b>References:</b>	Available upon request	
<b>Glossary:</b>	<p>ACGIH - American Conference of Governmental Industrial Hygienists                  ASTM - American Society for Testing and Materials                  ADR - Agreement on Dangerous Goods by Road (Europe)                  BOD5 - Biological Oxygen Demand in 5 Days                  CAN/CGA B149.2 - Propane Installation Code                  CAS - Chemical Abstract Services                  CEPA - Canadian Environmental Protection Act                  CERCLA - Comprehensive Environmental Response, Compensation and Liability Act                  CFR - Code of Federal Regulations                  CHIP - Chemical Hazard Information and Packaging Approved Supply List                  COD - Chemical Oxygen Demand                  COD5 - Chemical Oxygen Demand in 5 days                  CPR - Controlled Products Regulation                  DOT - Department of Transportation (U.S.A.)                  DSCL - Dangerous Substances Classification and Labeling (Europe)                  DSD/DPD - Dangerous Substance or Dangerous Preparations Directives (Europe)                  DSL - Domestic Substance List                  EEC/EU - European Economic Community/European Union                  EINECS - European Inventory of Existing Commercial Chemical Substances                  EPCRA - Emergency Planning and Community Right-To-Know Act                  FDA - Food and Drug Administration                  FIFRA - Federal Insecticide, Fungicide, and Rodenticide Act</p>	
	<p>HCS - Hazardous Communication System                  HMIS - Hazardous Material Information System                  IARC - International Agency for Research on Cancer                  IRIS - Integrated Risk Information System                  LD50/LC50 - Lethal Dose/Concentration Kill 50%                  LDLo/LCLo - Lowest Published Lethal Dose/Concentration                  NAERG=96 - North American Emergency Response Guide Book (1996)                  NFPA - National Fire Prevention Association                  NIOSH - National Institute for Occupational Safety &amp; Health                  NPRI - National Pollutant Release Inventory                  NSNR - New Substances Notification Regulations (Canada)                  NTP - National Toxicology Program                  OSHA - Occupational Safety &amp; Health Administration                  PEL - Permissible Exposure Limit                  RCRA - Resource Conservation and Recovery Act                  SARA - Superfund Amendments and Reorganization Act                  SD - Single Dose                  STEL - Short Term Exposure Limit (15 minutes)                  TDG - Transportation Dangerous Goods (Canada)                  TDLo/TCLo - Lowest Published Toxic Dose/Concentration                  TLm - Median Tolerance Limit                  TLV-TWA - Threshold Limit Value - Time Weighted Average                  TSCA - Toxic Substances Control Act                  USEPA - United States Environmental Protection Agency                  USP - United States Pharmacopoeia                  WHMIS - Workplace Hazardous Material Information System</p>	

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.