Material Safety Data Sheet

Section I - Product Identification

Trade Name and Synonyms
AEON 500

Part Numbers:
28G22, 28G19, 28G13

Health Emergency Phone Number
(217) 222-5400
Safety Department

Manufacturer’s Name
Gardner Denver, Inc.

Address
1800 Gardner Expressway - Quincy, IL 62301

Transport Emergency Phone Number
(800) 424-9300 (CHEMTREC)

Product Identification
Lubrication of air and inert gas compressors of the reciprocating, rotary screw, and rotary vane types. This compressor oil should not be used for the compression of wet or sour hydrocarbon gases and NEVER be used in equipment compressing pure oxygen.

Section II - Composition and Information on Ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS #</th>
<th>% (V/V)</th>
<th>TLV-TWA (8 h)</th>
<th>STEL</th>
<th>CEILING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severely hydrotreated hydrocarbon oil and additives.</td>
<td>72623-85-9</td>
<td>100</td>
<td>5 mg/m³ (oil mist)</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Manufacturer Recommendation:
TWA 5(mg/m³): manufacturers recommendation based on ACGIH TLV for oil mists.

Other Exposure Limits: Consult local, 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. Relatively non-toxic via ingestion. This product has a low vapour pressure and is not expected to present an inhalation exposure at ambient conditions. Upon heating to high temperatures, or mechanical actions which may produce vapours or mists, inhalation of product may cause irritation of the breathing passages. For more information, refer to Section 11.

Section IV - First Aid Measures

Eye Contact: IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek medical attention if irritation persists. See medical attention.

Skin Contact: Remove contaminated clothing - launder before reuse. Soap and water wash. Discard saturated leather articles.

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. Seek medical attention.


Note to physician: No additional remark

Section V - Fire-Fighting Measures

Flammability: May be combustible at high temperature.

Flammable Limits: Not available

Flash Points:
OPEN CUP: 260°C (500°F) (Cleveland)

Auto-Ignition Temperature: 350°C (662°F)

Fire Hazards in Presence of Various Substances:
Low fire hazard. Must be heated before ignition will occur.

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, CO₂), nitrogen oxides (NOₓ), sulfur oxides (SOₓ), phosphorus compounds (POₓ), smoke and irritating vapours as products of incomplete combustion.

Fire Fighting Media and Instructions:
SMALL FIRE: Use DRY chemicals, CO₂ water spray or foam. LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet. 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.
Section VI - Accidental Release Measures

Material Release or Spill: NAERG98, GUIDE 171, Substances (low to moderate hazard). ELIMINATE ALL IGNITION SOURCES. 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. DO NOT FLUSH TO SEWERS, STREAMS, OR OTHER BODIES OF WATER. Check with applicable jurisdiction for specific disposal requirements of spilled material and empty containers. Notify the appropriate authorities immediately.

Section VII - Handling and Storage

Handling: 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.

Storage: Combustible materials should be stored away from extreme heat and away from strong oxidizing agents. Store in cool, well-ventilated area.

Section VIII - Exposure Controls/Personal Protection

Engineering Controls: Good general ventilation should be sufficient to control airborne levels. Local exhaust, if necessary, to maintain allowable limits.

Personal Protection: Safety Glasses

Body: Long sleeved clothing to minimize skin contact.

Respiratory: 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.

Hands: For casual contact, PVC gloves are suitable. For direct contact for more than 2 hours, NEOPRENE or NITRILE gloves are recommended.

Feet: Wear appropriate footwear to prevent product from coming in contact with feet and skin.

Section IX - Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Physical State and Appearance: Liquid (Viscous Liquid)</th>
<th>Viscosity: 90-110 cST @ 40ºC (104ºF), 11.2 cST @ 100ºC (212ºF). VI-97</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color: Pale Yellow</td>
<td>Pour Point: -18</td>
</tr>
<tr>
<td>Odor: Hydrocarbon (Slight)</td>
<td>Softening Point: Not applicable</td>
</tr>
<tr>
<td>Odor Threshold: Not Available</td>
<td>Dropping Point: Not applicable</td>
</tr>
<tr>
<td>Boiling Point: 400ºC (752ºF)</td>
<td>Penetration: Not applicable</td>
</tr>
<tr>
<td>Specific Gravity: 0.87 (Water = 1)</td>
<td>Ionicity (In water): Insoluble in water</td>
</tr>
<tr>
<td>Density: 0.871 kg/L @ 15ºC (59ºF)</td>
<td>Dispersion Properties: Not available</td>
</tr>
<tr>
<td>Vapor Density: Not available</td>
<td>Solubility: Insoluble in water</td>
</tr>
<tr>
<td>Vapor Pressure: 0.0075 mm of Hg (@20ºC)</td>
<td>Volatility: Non-volatile</td>
</tr>
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</table>

Section X - Stability and Reactivity

Corrosivity: Not applicable

Stability: The product is stable under normal handling and storage conditions. Hazardous Polymerization: Will not occur under normal working conditions.

Incompatible Substances/ Conditions to Avoid: Highly reactive with oxidizing agents, acids. Decomposition Products: May release COx, NOx, SIOx, methacrylate monomers, POx, smoke and irritating vapours when heated to decomposition.

Section XI - Toxicological Information

Routes of Entry: Inhalation and Ingestion, Skin Contact, Eye Contact

Acute Lethality: Based on toxicity of components. Acute oral toxicity (LD50): >5000 mg/kg (rat), Acute dermal toxicity (LD50): >2000 mg/kg (rabbit).

Chronic or other effects:

Dermal Route: Prolonged or repeated contact may cause skin irritation characterized by dermatitis or oil acne.

Inhalation Route: Negligible breathing hazard at normal temperatures (up to 38ºC) or recommended blending temperatures. Elevated temperatures or mechanical action may form vapours, mists, or fumes. Inhalation of oil mists or vapours from hot oil may cause irritation of the upper respiratory tract.

Oral Route: Low toxicity; has laxative effect.

Eye Irritation/Inflammation: Repeated or prolonged contact may cause transient irritation, but no permanent damage.
Immunotoxicity

Not available

Skin Sensitization

This product is not expected to be a skin sensitizer based on the available data and the known hazards of the components.

Respiratory Tract Sensation

This product is not expected to be a respiratory tract sensitizer based on the available data and the known hazards of the components.

Mutagenic

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.

Reproductive Toxicity

This product is not considered to be a reproductive hazard, based on the available data and the known hazards of the components.

Teratogenicity/Embryotoxicity

This product is not considered to be a teratogen or an embryotoxin, based on the available data and the known hazards of the components.

Carcinogenicity (ACGIH)

This product is not known to contain any chemicals at reportable quantities that are listed as A1 or A2 carcinogens by ACGIH.

Carcinogenicity (IARC)

This product is not known to contain any chemicals at reportable quantities that are listed as 1, 2A or 2B carcinogens by IARC.

Carcinogenicity (NTP)

This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by NTP.

Carcinogenicity (IRIS)

Not available

Carcinogenicity (OSHA)

This product is not known to contain any chemicals at reportable quantities that are listed carcinogens by OSHA.

Other Considerations:

No additional remark

Section XII - Ecological Information

Environmental Fate: Not available

Persistence/ Biaccumulation Potential: No Studies were found

BOD5 and COD: Not available

Products of Biodegration: Not available

Additional Remarks: No additional remark

Section XIII - Disposal Considerations

Waste Disposal:
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.

Section XIV - Transport Information

TDG Classification: Not controlled under TDG (Canada)

Special Provisions for Transport: No additional remark

Section XV - Regulatory Information

Other Regulations:

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA): This product is acceptable for use under the provisions of WHMIS-CPR. All components of this formulation are listed on the CEPA-DL (Domestic Substances List). EPA: All components of this formulation are listed on the US EPA-TSCA inventory.

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.

WHMIS (Canada): Not a controlled product under Canadian WHMIS Hazard Criteria; as specified in Controlled Product Regulation.

DSD/DPD (Europe):
Not classified under the Dangerous Substances or Dangerous Preparations Directives.

HMIS (U.S.A.)

0  Health Hazard
1  Fire Hazard
0  Reactivity
b Personal Protection

NFPA (U.S.A.)

Health 0
Reactivity 0
Specific Hazard

Rating
0 Insignificant
1 Slight
2 Moderate
3 High
4 Extreme
Section XVI - Other Information

References: Available upon request

Glossary:

- 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
- 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
- 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
- NFPA - National Fire Prevention Association
- NIOSH - National Institute for Occupational Safety & Health
- NPRI - National Pollutant Release Inventory
- NTP - National Toxicology Program
- OSHA - Occupational Safety & 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

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