Gardner Denver

Material Safety Data Sheet

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

Section I - Product Identification

Trade Name and Synonyms	Part Numbers:	Health Emergency Phone Number
AEON 500	**28G22, 28G19, 28G13, 28G39**	**(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

		Exposure Limits (ACGIH)			
Name	**CAS #**	**% (V/V)**	**TLV-TWA (8 h)**	**STEL**	**CEILING**
Severely hydrotreated hydrocarbon oil and additives.	72623-85-9	100	5 mg/m3 (oil mist)	N/A	N/A

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.
Ingestion:	DO NOT induce vomiting. Force fluids. Activated charcoal tablets.
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**	Fire Point: 350ºC (662ºF)
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, CO_2), 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, CO_2, 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:	
Eyes	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

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

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 coll/Mammalian-Microroma 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 taratogen 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-DSL (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 Fire Hazard Reactivity 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
NAERG=96 - North American Emergency Response Guide Book (1996)
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

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.

Prepared by the Product Specialist, Aftermarket
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