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MATERIAL SAFETY DATA SHEET

PRODUCT NAME	VEEDOL TRANSGEAR EXPRESS 80w90	Sheet	16200	**1** of **5**
		Revision No.	01 -	
		Last Revision	09-25	
		Issue Date	09-13	

SECTION 1 PRODUCT & COMPANY INFORMATION

MATERIAL IDENTITY:
Product code and name: VEEDOL TRANSGEAR EXPRESS 80W90
Synonym: Petroleum lubricating oil
Application: Gear Oil
Supplier's name and address:
AUTOMOBILE SOLUTIONS AMERICAS INC.
3660 Hurontario Street, Suite 400, Mississauga, Ontario, L5B 3C4
Tel.: 647 558 4500 Fax: 647 558 4499
In case of emergency:
Automobile Solutions Americas: 1 800 975 2935
CANUTEC: 613 996-6666

SECTION 2 COMPOSITION & INGREDIENTS INFORMATION

Chemical Composition: Hydrocarbon oil and additives
Hazardous Components: No component is present in sufficient concentration to require a hazardous classification for health.

SECTION 3 HAZARDS IDENTIFICATION

This product is not classified as hazardous when used for the application which it is intended.
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 toxicological information.

SECTION 4 FIRST AID MEASURES

Eye contact: 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. Seek medical attention.
Inhalation: Evacuate the victim to a safe area as soon as possible. If the victim is not breathing, perform artificial respiration. Allow the victim to rest in a well-ventilated area. Seek medical attention.
Ingestion: DO NOT induce vomiting because of danger of aspirating liquid into lungs. Seek medical attention.

SECTION 5 FIRE-FIGHTING MEASURES

Extinction agents: Shut off fuel to fire if it is possible to do so without hazard. Use dry chemicals, foam, water spray, CO_2 or a portable fire extinguisher.
Special measures in case on fire: Use dry chemicals, foam, water spray or CO_2. Do not use a direct water spray as it may cause spattering which could spread fire. Use water to cool containers exposed to

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flames. Water can be used to spread product away from the source of fire. Notify the appropriate authorities.
Special protective equipment: Respiratory and eye protection are required for fire-fighting personnel.
Flammability: May be combustible at high temperature.
Flash point: 232 c
Fire hazards in presence of other substances: Low fire hazard. This material must be heated before ignition will occur.
Explosion hazards in presence of various substances: Containers may explode in heat of fire. Do not cut, weld, heat, drill or pressurize empty container.
Products of combustion: Carbon oxides (CO, CO_2), nitrogen oxides (NO_x), sulphur oxides (SO_x), smoke and irritating vapours as products of incomplete combustion.
Danger identification: Carbon oxides (CO, CO_2), nitrogen oxides (NO_x), and heavy smoke during combustion.

SECTION 6 ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES

Procedures in case of spill: Eliminate all ignition sources. Avoid contact. Stop leak if without risk. Contain spill. Blackned dangerous area and prevent access. 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. Appropriate respiratory device should be used. Place used absorbent in closed metal containers for later disposal. Work in the direction of the wind in regard to spread product. 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.
Spill on earth: Contain spilled liquid with sand or earth. In case of large spill, remove material mechanically and store in containers. Recover by pumping or by using a suitable absorbent. Ensure disposal in compliance with government requirements and ensure conformity to local disposal regulation. Notify the appropriate authorities immediately.
Spill in water: Remove from surface by skimming or with suitable absorbents. Prevent spreading. If allowed by local authorities and environmental agencies, sinking and/or suitable dispersants may be used in unconfined waters. Notify the appropriate authorities immediately.
Precaution measures for the environment: Do not leave this product or the water used to fight a fire where this product is present enter sewage systems, lakes, rivers or other drinkable water sources. Provincial and federal regulations may demand that environment protection or other agencies must be warned in case of a spill. Polluted area must be cleaned to his original state and authority's satisfaction.

SECTION 7 HANDLING & STORAGE

Handling: Avoid inhalation and skin contact especially when handling used oil. Avoid frequent or prolonged skin contact with new or used product. Protect against contact with eyes. If splashing is likely to occur, wear a full face visor. Keep away from sources of ignition. Do not breathe hot oil mist. Do not re-use empty containers without commercial cleaning or reconditioning. Practice good personal hygiene.

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Wash hand after handling and before eating. Launder work clothes frequently. Discard saturated leather goods. Do not use empty containers without cleaning or recycling.
Storage: Store in tightly closed containers in cool, dry isolated, well ventilated area, and away from incompatibles. Avoid undue exposure to heat and ignition sources.

SECTION 8 EXPOSURE CONTROL & PERSONAL PROTECTION

Exposure limits at work: Oil mist (mineral): none
CMA/moderate exposure: 5 mg/m_3 ACGIH
CMA/short exposure: 10mg/m_3 ACGIH
Ventilation: Maintain product air concentration under exposure limit in the work place. In presence of oil mist or in the case of the exposure limit being exceeded, local ventilation is recommended. Air exchange (general or local) must be provided to replace rejected air.
Eyes: 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.
Body: Wear appropriate clothing to prevent skin contact. As a minimum long sleeves and trousers should be worn.
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: Wear appropriate chemically resistant gloves. When handling hot product ensure gloves are heat resistant and insulated.
Feet: Wear appropriate chemically resistant footwear to prevent product from coming in contact with feet and skin.

SECTION 9 PHYSICAL & CHEMICAL PROPERTIES

Physical state and appearance: Viscous liquid
Colour: Not available
Odour: Hydrocarbon
Flash point: 232 ^{o}C
Pour point: -27 ^{o}C
Viscosity @ 40 ^{o}C: 138 - 167 cSt
Viscosity @ 100 ^{o}C: 13.9 - 16.2 cSt
Vapour density: Not available
Vapour pressure: Negligible at ambient temperature and pressure
Volatility: Non-volatile
Flammability: This material must be heated before ignition will occur.

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SECTION 10 STABILITY & REACTIVITY

Corrosivity: Copper corrosion, 3h, 100 ^{o}C (ASTM D0130): 1a
Stability: The product is stable under normal handling and storage conditions.
Incompatible substances: Reactive with oxidizing agents and acids.
Hazardous polymerization: Will not occur under normal working conditions.
Decomposition products: May release CO_x, SO_x, H_2S, PO_x, CaO_x ZnO_x, methacrylate monomers, alkyl mercaptans, aldehydes, smoke and irritating vapours when heated to decomposition.

SECTION 11 TOXICOLOGICAL INFORMATION

Materials used have been shown to be low toxicity, but best practice dictates that prolonged exposure and contact should be avoided.

ACUTE TOXICITY

Routes of entry: Skin contact, eye contact, inhalation and ingestion
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 TOXIC EFFECTS:

Dermal route: Prolonged or repeated contact may cause skin irritation characterized by dermatitis or oily acne.
Inhalation route: Negligible breathing hazard at normal temperatures (up to 38 ^{o}C). 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.
Eyes irritation/inflammation: Repeated or prolonged contact may cause transient irritation, but no permanent damage.
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 sensitization: This product is not expected to be a respiratory tract sensitizer, based on the available data and the known hazards of the components.
Mutagenic effects: Not available
Teratogenicity/Embryogenicity: This product is not expected to be a teratogen or an embryo toxin, 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.
(IARC): This product is not known to contain any chemicals at reportable quantities that are listed as group 1, 2A or 2B carcinogens by IARC.
(NTP): This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by NTP.
(IRIS): Not available

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

SECTION 12 ECOLOGICAL INFORMATION

Environmental: Not available
BOD & COD: Not available
Bioaccumulation: Not available
Biodegradation: Not available

SECTION 13 DISPOSAL CONSIDERATIONS

This material may be disposed of via and authorised waste/disposal company in accordance with local and / or National Waste Disposal regulations.
CAUTION: Misuse of empty containers can be hazardous. Empty containers can be hazardous if used to store toxic, flammable, or reactive materials. Cutting or welding of empty containers might cause fire, explosion or toxic fumes from residues. Do not pressurize or expose to open flame or heat. Keep container closed and drums bungs in place. DO NOT dispose in sewers, streams or other bodies of water.

SECTION 14 TRANSPORTATION INFORMATION

This product is not regulated by the Canadian regulation for the transportation of dangerous material on roads or rails.

SECTION 15 REGULATORY INFORMATION

This product is not controlled under workplace hazardous materials information system (WHMIS).

SECTION 16 OTHER INFORMATION

The data and information contained herein are being furnished for informational purposes only, upon the express condition that each customer shall make its own assessment of appropriate shipping, transfer and storage of materials supplied by Automobile Solutions Americas Inc. Although based on information sources, it is considered to be accurate and reliable, Automobile Solutions Americas Inc. makes no warranty, either expressed or implied, including any warranties of merchantability or fitness for a particular purpose, regarding the viability of this information, the information sources upon which the same are based, or results to be obtained, and expressly disclaims liabilities for damages and / or injuries resulting from the use thereof.