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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Dilmar Starguard SAE 10

Part Number: doc10-5

Distributor: Dilmar Oil Co., Inc. 1951 W. Darlington St. Florence, SC 29501

800-922-5823

Emergency Phone Number: During normal business hours – 800-922-5823

Recommend Uses: For use in diesel and spark ignition engines according to the specific viscosity grade and performance level for each grade of product.

SECTION 2. HAZARD(S) IDENTIFICATIONS

Emergency Overview

Appearance	Viscous liquid
Color	Amber
Odor	Mild petroleum oil like

GHS Classification:

Not a hazardous substance or mixture.

GHS Label Elements:

Not a hazardous substance or mixture.

Potential Health Effects

Primary Routes of Entry: Eye contact
Ingestion
Inhalation
Skin contact

Aggravated Medical Condition: None Known

Other hazards which do not result in classification

No Data Available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture: Mixture

Hazardous component(s)

Chemical Name	CAS-No.	Concentration (%)
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	70 – 90 %
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	10 – 20 %
Mineral oil		5 – 10 %

SECTION 4. FIRST-AID MEASURES

If inhaled: Move to fresh air.
Artificial respiration and/or oxygen may be necessary.
Seek medical advice.



In case of skin contact:	In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Wash clothing before reuse. Seek medical advice.
In case of eye contact:	Remove contact lenses. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.
If swallowed:	Rinse mouth with water. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Seek medical advice.
Most important symptoms and effects, both acute and delayed:	First aider needs to protect himself.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media:	No information available.
Specific hazards during firefighting:	Cool closed containers exposed to fire with water spray.
Hazardous combustion products:	Carbon oxides (CO, CO ₂), nitrogen oxides (NO _x), Sulphur oxides (SO _x), calcium oxides (CaO _x), zinc oxides (ZnO _x), asphyxiants, smoke and irritating vapours as products of incomplete combustion.
Further information:	Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, Protective equipment and Emergency procedures:	Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. Material can create slippery conditions.
Environmental precautions:	If the product contaminates rivers and lakes or drains inform Respective authorities.
Methods and materials for containment and cleaning up:	Prevent further leakage or spillage if safe to do so. Remove all sources of ignition. Soak up with inert absorbent material. Non-sparking tools should be used. Ensure adequate ventilation. Contact the proper local authorities.



SECTION 7. HANDLING AND STORAGE

Advice on safe handling:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Keep away from heat and sources of ignition. Keep container closed when not in use.
Conditions for safe storage:	Store in original container. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep in a dry, cool and well-ventilated place. Keep in properly labelled containers. To maintain product quality, do not use in heat or direct sunlight.

SECTION 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protective equipment

Respiratory protection:	Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Filter type:	Organic vapor filter
Hand protection material:	Neoprene, Nitrile, Polyvinyl Alcohol (PVA), Viton(R).
Remarks:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Eye protection:	Wear face-shield and protective suit for abnormal processing problems.
Skin and body protection:	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
Protective measures:	Wash hands and face before breaks and immediately after handling the product. Wash contaminated clothing before re-use. Ensure that eyewash station and safety shower are proximal to the work-station location.
Hygiene measures:	Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash face, hands and any exposed skin thoroughly after handling.



SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Viscous liquid
Color:	Amber
Odor:	Mild petroleum oil like
Odor Threshold:	No data available
pH:	No data available
Pour point:	-42 °C (-44 °F)
Melting point/freezing point:	No data available
Boiling point/boiling range:	No data available
Flash Point:	194 °C (381 °F) Method: Pensky-Martens closed cup
Fire Point:	231 °C (448 °F)
Auto-Ignition Temperature:	No data available
Decomposition Temperature:	No data available
Evaporation Rate:	No data available
Flammability:	Low fire hazard. This material must be heated before ignition will occur.
Upper explosion limit:	No data available
Lower explosion limit:	No data available
Vapor pressure:	No data available
Relative vapor density:	No data available
Density:	0.8735 kg/l (15 °C / 59 °F)
Solubility (ies):	
Water solubility:	insoluble
Partition coefficient: n- Octanol/water	No data available.
Viscosity	
Viscosity, Kinematic:	41.51 cSt (40 °C / 104 °F) 6.77 cSt (100 °C / 212 °F)
Explosive properties:	Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

SECTION 10. STABILITY AND REACTIVITY

Possibility of hazardous reactions:	Hazardous polymerization does not occur. Stable under normal conditions.
Conditions to avoid:	No data available
Incompatible materials:	Reactive with oxidizing agents, acids, alkalis and reducing agents.
Hazardous decomposition products:	May release CO _x , NO _x , SO _x , H ₂ S, alkyl mercaptans, sulfides, aldehydes, methacrylate monomers, smoke and irritating vapors when heated to decomposition.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product:

Acute oral toxicity	Remarks: No data available
Acute inhalation toxicity	Remarks: No data available
Acute dermal toxicity	Remarks: No data available

**Components:****lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based:**

Acute oral toxicity	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	LC50 (Rat): > 5.2 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	LD50 (Rabbit): > 2,000 mg/kg

Skin corrosion/irritation**Product:**

Remarks: No data Available

Serious eye damage/eye irritation**Product:**

Remarks: No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity**Product:**

Remarks: Not expected to be carcinogenic.

Remarks: Product contains mineral oils of types shown to be non-carcinogenic in animal skin painting studies. Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC).

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Product:**

Toxicity to fish: Remarks: No data available

Toxicity to daphnia and other:
aquatic invertebrates Remarks: No data available

Toxicity to algae: Remarks: No data available

Toxicity to bacteria: Remarks: No data available

**Persistence and degradability****Product:**

Biodegradability:

Remarks: No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues:

The product should not be allowed to enter drains, water courses or the soil.

Offer surplus and non-recyclable solutions to a licensed disposal company.

Waste must be classified and labelled prior to recycling or disposal.

Send to a licensed waste management company.

Dispose of as hazardous waste in compliance with local and national regulations.

Dispose of product residue in accordance with the instructions of the person responsible for waste disposal.

Contaminated packaging:

Do not re-use empty containers.

SECTION 14. TRANSPORTATION INFORMATION**International Regulation****IATA-DGR**

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

49 CFR

Not regulated as a dangerous good

TDG

Not regulated as a dangerous good

Special precautions for user

Not applicable

**SECTION 15. REGULATORY INFORMATION**

OSHA Hazards: No OSHA Hazards

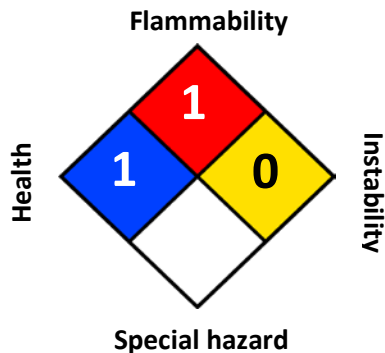
The components of this product are reported in the following inventories:

DSL On the inventory, or in compliance with the inventory
 TSCA All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.
 IECS On the inventory, or in compliance with the inventory
 EINECS On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

Further information

NFPA:



HMIS III:

HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

0 = not significant, 1 = Slight,
 2 = Moderate, 3 = High
 4 = Extreme, * = Chronic

Guide to Abbreviations:

ACGIH = American Conference of Governmental Industrial Hygienists; CASRN = Chemical Abstracts Service Registry Number; CEILING = Ceiling Limit (15 minutes); CERCLA = The Comprehensive Environmental Response, Compensation, and Liability Act; EPA = Environmental Protection Agency; GHS = Globally Harmonized System; IARC = International Agency for Research on Cancer; INSHT = National Institute for Health and Safety at Work; IOPC = International Oil Pollution Compensation; LEL = Lower Explosive Limit; NE = Not Established; NFPA = National Fire Protection Association; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; PEL = Permissible Exposure Limit (OSHA); SARA = Superfund Amendments and Reauthorization Act; STEL = Short Term Exposure Limit (15 minutes); TLV = Threshold Limit Value (ACGIH); TWA = Time Weighted Average (8 hours); UEL = Upper Explosive Limit; WHMIS = Worker Hazardous Materials Information System (Canada)

Prepared by: Dilmar Oil Co., Inc.

Revision date: 06/2015

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