Sentinel Canada

SAFETY DATA SHEET

SECTION 1– IDENTIFICATION

PRODUCT NAME	:	**SENT-VV-L-800 MIL-PRF-320333**
MILITARY SPECIFICATION	:	**MIL-PRF-32033A W/Amendment 1**
Product Use	:	**LUBRICANT**
QPL Number	:	**LP-7063**
Chemical Family	:	**PETROLEUM BASE**
Product Description	:	**LUBRICANTING OIL, GENERAL PURPOSE, PRESERVATIVE (WATER- DISPLACING LOW TEMPERATURE)**

COMPANY IDENTIFICATION

MANUFACTURER:

SENTINEL CANADA
7300 St-Jacques
Montreal, Quebec H4B 1W1
Canada

TELEPHONE NUMBERS

Supplier General Contact	:	514-483--6500 1-800-361-2517

24-hour Environmental / Health Emergency

Emergency Telephone Number (CANUTEC)	:	1-613-996-6666 (CANADA)
Emergency Telephone Number (CHEMTREC)	:	1-800-424-9300 (U.S.A.)

SECTION 2 – HAZARDS IDENTIFICATION

According to Regulation 2012 OSHA Hazard Communication Standard, 29CFR Part 1910.1200

Classification of the product

Skin irritant	:	3
Eye irritant	:	3
Reproductive toxicity	:	3 (Fertility)
Reproductive toxicity	:	3 (unborn child)

GHS RATING
(Global Harmonized System Rating)

1 = Extreme
2 = Serious
3 = Moderate
4 = Slight

Label elements

Pictograms:

Signal word: WARNING

Health Hazard Statements

H315 Causes skin irritation
H360 May damage fertility or the unborn child.

Prevention Precautionary Statements

P280 Wear protective gloves.
P264 Wash thoroughly with soap & water after handling.

Response Precautionary Statements

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses. If present and easy to do so. Continue rinsing.
P310	Immediately call POISON CONTROL CENTER or a Doctor.
P303 + P352	If on skin (or hair) wash with plenty of soap & water.
P362 + P364	Take off contaminated clothing and wash before reuse.

Disposal Precautionary Statement:

P501 Dispose of contents/container to hazardous or special waste collection point.

Hazardous not otherwise classified.

If applicable information is provided in this section on other hazards which do not result in classification but Which may contribute to the overall hazard of the substance or mixture.

Labelling of special precautions (GHS):

May produce an allergic reaction. Naphthylamine derivative. Acetic acid, 2-(4-nonylphenooxy),aromatic methanamine.

Classification System:

NFPA rating (scale 0-4)

Workplace Hazardous Material Information (WHMIS-Canada)
Hazardous Material Information System (HMIS-U.S.A.)

Health	**1**
Flammability	**1**
Reactivity	**0**
Personal Protection	**B**

HAZARD RATINGS
4- Extreme
3- Serious
2- Moderate
1- Slight
0- Minimal

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENTS	CAS #	% by weight	LC_{50}/LD_{50}	Exposure Limits
Hydro-treated light naphthenic distillate	64742-53-6	60 - 100	5000 mg/kg (oral, rat)	TWA/OSHA : 5mg/m³ TWA/ACGIH: 5mg/m³
Calcium alkyl naphthalene sulfonate	57855-77-3	<5	2500 mg/kg (oral, rat)	N.A.
Acrylic co-polymer in neutral oil	Confidential	<5	N.A.	N.A.
Tri-butoxyethyl phosphate	78-51-3	<1	3000 mi/kg (oral, rat)	N.Av.
Anti-oxidant, corrosion inhibitor & metal deactivator (tetra-ethylene dimethyl ether)	Mixture 143-24-8	0.21 <0.08	N.A.	N.A.
Butyl hydroxyl toluene	128-37-0	<1	890 mg/kg (oral, rat)	TWA/OSHA: 10 mg/m³
Alkyloctyl phenol ethoxylate	9036-19-5	<0.5	4000 mg/kg (oral, rat)	TWA/AIHA: 10 mg/m³

SECTION 4 – FIRST AID MEASURES

Eyes Contact: Rinse the eye with water immediately. Continue to rinse for at least 15 minutes. Contact physician if discomfort continues.

Skin Contact: Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

Inhalation: Vapor inhalation under ambient conditions is normally not a problem. If overcome by vapour of hot product, immediately remove from source of exposure. Move the exposed person to fresh air at once. For breathing difficulties, oxygen may be necessary. Get medical attention if any discomfort continues.

Ingestion: DO NOT INDUCE VOMITING. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Get medical attention immediately.

Other Instructions: Remove and dry-clean clothing soaked or soiled with this material before reuse. Dry cleaning of contaminated clothing may be more effective than normal laundering.

SECTION 5 – FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Use water fog, foam, dry chemical or CO_2.

FIRE FIGHTING

Firefighting Procedures: Wear self-contained breathing apparatus and full turn-out gear to fight fire. Use water spray, dry chemical, sand, dolomite, carbon dioxide, alcohol resistant foam, fog or mist. Use water spray to cool containers exposed to heat or fire to prevent pressure build up which could rupture. Avoid spreading liquid and fire by water flooding. Keep run-off water out of sewers and water sources.

Hazardous Combustion Products: Thermal decomposition products are highly dependent on the combustion conditions. A complex mixture of airborne solid, liquid, particulates and gases will evolve when this material undergoes pyrolysis or combustion. Carbon monoxide and other unidentified organic compounds may be formed upon combustion.

FLAMMABILITY PROPERTIES

Flash Point (Method)	:	>100°C (>212°F)
Flammable Limits (%)	:	LEL: Not determined UEL; Not determined
Autoignition Temperature	:	N.D.

Unusual Fire and Explosion Hazards:
Empty containers retain residue that can be dangerous. Exposure to heat builds up pressure in closed containers. Cool with water spray. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heating sources (flame, sparks, etc.), they may explode and cause injury.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

SPILL MANAGEMENT

Steps to be Taken in Case Material is Released or Spilled: Soiled surfaces are extremely slippery. The use of protective equipment is required to remove the spills. Cover with Sentinel absorbent or any other inert material and remove to disposal container. Place in an appropriate disposal facility in compliance with local regulations.

ENVIRONMENTAL PRECAUTIONS

Prevent entry into waterways, sewers, basements or confined areas. Spills into or leading to surface waters that cause a sheen must be reported.

SECTION 7 – HANDLING AND STORAGE

HANDLING:
Put on appropriate personal protective equipment (see section 8). Do not use oil above the maximum recommended operation temperature. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material. Keep tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

STORAGE:
Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

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SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection (Specify Type): *If overheated, use appropriate NIOSH approved respiratory equipment.*

Ventilation - Mechanical (General) Exhaust: Adequate ventilation

Protective Gloves: Impermeable gloves to minimize skin contact.

Eye Protection: Safety glasses, goggles recommended during refilling..

Other Protective Clothing or Equipment: Work clothing as required to minimize contact.

Work/Hygienic Practices: *Wash with soap and water before eating, drinking, smoking or using toilet facilities.*

Other Information: *Store in a cool, dry place with adequate ventilation. Keep away from open flames and all sources of ignition.*

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Specific Gravity (H^2O=1): 0.895 @15.56°C
Density : 895 g/cm^3
Vapor Pressure (mmHg): N.D.
Viscosity @ 40°C: 11 cSt min.
Vapor Density (Air = 1) : N.Av.
Evaporation Rate : Slower than BU/AC
Volatile Organic Compound (VOC): 144 g/L (3 years average by ASTM-E1868)
Solubility in Water : Negligible
Appearance and Odour: Amber liquid, mild solvent odour

SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable under normal conditions of use and storage.

Conditions to Avoid: Avoid contact with acids and oxidizing substances

Incompatibility (material to avoid): Strong Oxidizers

Hazardous Decomposition Products: Thermal decomposition products are highly dependent on the combustion conditions. A complex mixture of airborne solid, liquid, particulates and gases will evolve when this material undergoes pyrolysis or combustion. Carbon monoxide and other unidentified organic compounds may be formed upon combustion.

Hazardous Polymerization: Will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

Toxicological Information (Animal Toxicity Data): No experimental toxicological data on the preparation as such is available.

Median Lethal Dose

Oral (LD_{50}): N.D.
Inhalation : N.D.
Dermal (LD_{50}) : N.D.
Sensitization : N.D.
Other : None

Potential Chronic Health Effects

Carcinogenicity / Mutagenicity / Reproductive Toxicity: No known significant effects

SECTION 12 – ENVIRONMENTAL INFORMATION

There is no ecological data on the product itself.
Toxicity to daphnia and other aquatic invertebrates: 1-Decene, tetramer, mixed with 1-decene trimer, hydrogenated: EC50: 190 mg/L, exposure time: 48 h
Mobility: N.D.
Persistance and Biodegradability: N.D.

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal : The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a license waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7 (HANDLING AND STORAGE) and Section 8 (EXPOSURE CONTROLS / PERSONAL PROTECTION) for additional handling information and protection of employees.

SECTION 14 – TRANSPORT INFORMATION

TDG Classification	:	Not regulated
DOT Classification	:	Not regulated
IMDG Classification	:	Not regulated
IATA Classification	:	Not regulated

SECTION 15 – REGULATORY INFORMATION

CANADA

WHMIS (Canada) : Not controlled

Canadian Lists : **CEPA Toxic substances:** None of the components are listed
Canadian ARET: None of the components are listed
Canadian NPRI: None of the components are listed.
Alberta Designated Substances: None of the components are listed.
Ontario Designated Substances: None of the components are listed.
Quebec Designated Substances: None of the components are listed.

Canada Inventory : **Canada Inventory:** All components are listed or exempted.

UNITED STATES

U.S. Federal Regulations : ***TSCA INVENTORY STATUS:***
The components of this product are listed on the EPA/TSCA Inventory of Chemical Substances.
SARA 302/304/311/312 Hazard Categories: None
SARA 302/304/311/312 hazardous chemicals: None
Clear Air Act (CWA) 307/311: None
Clear Air Act (CAA 112): None

INTERNATIONAL INVENTORY

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

Canadian DSL, EINECS, AICS, NZIoC, ENCS, KECI, PICCS, IECSC.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

SECTION 16 – OTHER INFORMATION

ABBREVIATIONS EXPLANATION

EINECS / ELINGS	European Inventory of Existing Commercial Chemical Substances / Liste européenne des substances chimiques notifiées
TSCA	TSCA Inventory / Inventaire du TSCA
AICS	Australia Inventory of Chemical Substances / Inventaire des substances chimiques de l'Australie
DSL / LSD	Domestic Substances List (DSL) / Liste des substances domestiques (LSD)
ENCS	Japan – Existing and New Chemical Substances Inventory / Inventaire des substances chimiques existantes et nouvelles du Japon
KECI	Korea – Korean Existing Chemicals Inventory / Corée – Substances chimiques existantes
PICCS	Philippine Inventory of Chemicals and Chemical Substances / Inventaire des substances chimiques des Philippines
IECSC	China – Inventory of Existing Chemical Substances in China (IECSC)/ Chine – Inventaires des substances chimiques existantes en Chine

Notice to Reader

The information contained herein has been compiled from data published in the literature. Specific references are available on request. Sentinel Canada expressly disclaims liability for any injury or loss from the use of this information or the materials described. This data is believed to be reliable, but certain values may vary from source to source. This data is not to be construed as absolutely complete. It is the responsibility of the user to determine the best precautions necessary for his/her application. This data only refers to the specific material designated and not to any combinations.

N.A.: Not Applicable **N.D.: Not Determined**

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