

BOSS LUBRICANTS: MATERIAL SAFETY DATA SHEET

THIS PRODUCT IS NOT A WHMIS CONTROLLED SUBSTANCE.

1. PRODUCT AND COMPANY IDENTIFICATION

EFFECTIVE DATE: MARCH 2nd, 2021
PRODUCT: NGENO-PM SAE 30/40
SYNONYMS: NATURAL GAS ENGINE OIL
PRODUCT USE: Lubricating Oil

MANUFACTURER	TELEPHONE NUMBERS	
BOSS LUBRICANTS	BOSS EMERGENCY NUMBER	1-800-844-9457
112, 6303-30 STREET S.E.	CANUTTEC 24 HOUR EMERGENCY	613-996-6666
Calgary, AB CANADA	FOR GENERAL INFORMATION	403-279-2223
T2C 1R4		

This MSDS was prepared by the Toxicology and Material Safety Section of BOSS LUBRICANTS.

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	CAS Number	% Range	WHMIS Controlled	CBI Claim No. CBI Date
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THIS PRODUCT IS NOT A WHMIS CONTROLLED SUBSTANCE.
See Section 8 for Occupational Exposure Guidelines.

3. HAZARDS IDENTIFICATION

Physical Description: Liquid Dark Brown Hydrocarbon Odour

Routes of Exposure: Exposure will most likely occur through skin contact or from inhalation of mechanically or thermally generated oil mists.

Hazards: May be slightly irritating to the eyes.
Product may be slightly irritating to the skin.
Inhalation of oil mist or vapours from hot oil may cause irritation of the upper respiratory tract.

For further information on health effects, see Section 11.

4. FIRST AID

Eyes: Flush eyes with water for at least 15 minutes while holding eyelids open. If irritation occurs and persists, obtain medical attention.

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First Aid cont'd

Skin:	Wipe excess from skin. Wash contaminated skin with mild soap and water for 15 minutes.
Ingestion Inhalation	Do not induce vomiting. Obtain medical attention immediately. Remove victim from further exposure. Additional first aid treatment is not ordinarily required
Notes To Physician	In general, lubricating oils have low oral toxicity. High pressure injection under the skin may have serious consequences and may require urgent treatment.

5. FIRE FIGHTING MEASURES

Extinguishing Media	Dry Chemical Carbon Dioxide Foam Water Fog
Fire Fighting instructions	Do not use a direct stream of water as it may spread fire. Use water to cool fire exposed containers. Water may be used to flush spills away from exposure. Do not enter confined fire space without adequate protective clothing and an approved positive self-contained breathing apparatus.
Hazardous Combustion Products	Carbon monoxide, carbon dioxide and dense smoke are produced on combustion.

6. ACCIDENTAL RELEASE MEASURES

Eliminate all ignition sources. Isolate hazard area and restrict access. Wear appropriate breathing apparatus (if applicable) and protective clothing. Stop leak only if safe to do so. Dike and contain land spills, contain water spills by booming. Flush area with water to remove trace residue. Absorb residue or small spills with absorbent material and remove to non-leaking containers for disposal. Dispose of recovered material as noted under Disposal Considerations. Notify appropriate environmental agency (ies).

7. HANDLING AND STORAGE

Handling:	Avoid excessive heat, formation of oil mist, breathing of vapours and mist of hot oil and prolonged or repeated contact with skin. Launder contaminated clothing prior to reuse. Properly dispose of contaminated leather articles, including shoes, that cannot be decontaminated. Use good personal hygiene.
Storage:	Store in a cool, dry, well ventilated area, away from heat and ignition sources.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

THE FOLLOWING INFORMATION, WHILE APPROPRIATE FOR THIS PRODUCT, IS GENERAL IN NATURE. THE SELECTION OF PERSONAL PROTECTIVE EQUIPMENT WILL VARY DEPENDING ON THE CONDITIONS OF USE.

Occupational Exposure Limits (2000):	Oil Mist (mineral): 5 mg/m ³ (TLV/TWA) ACGIH 10 mg/m ³ (TLV/STEL) ACGIH
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Mechanical Ventilation: To maintain levels below workplace exposure limits mechanical ventilation recommended. Local ventilation is recommended if oil mist is present or if exposure limit is exceeded. Make up air should always be supplied to balance air exhausted (either generally or locally).

PERSONAL PROTECTIVE EQUIPMENT

Eye Protection: Chemical safety goggles and/or full face shield to protect eyes and face, if product is handled such that it could be splashed into eyes.

Skin Protection: Oil impervious gloves (nitrile, neoprene or PVC) should be worn at all times when handling this product. Impervious clothing (apron, coveralls) should also be worn in confined workspaces or where the risk of skin exposure is much higher.

Respiratory Protection: If exposure exceeds occupational exposure limits, use an appropriate NIOSH-approved respirator. Depending on airborne concentrations, use either a NIOSH-approved dust/mist respirator or a NIOSH-approved supplied-air respirator. Under conditions of high heat, use a NIOSH-approved chemical cartridge with organic vapour cartridges in combination with a dust/mist pre-filter.

9. PHYSICAL DATA

Physical State:	Liquid
Appearance:	Dark Brown
Odour:	Hydrocarbon Odour
Odour Threshold:	Not available
Pour Point:	-24°C
Density:	0.8730 @ 15 degrees C
Vapour Density(Air=1)	Not available
Vapour Pressure:	Not available
Specific Gravity (Water=1)	0.000

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Physical Data cont'd

pH	Not applicable
Flash Point:	Method Cleveland Open Cup 246 degrees C
Lower Explosion Limit:	Not available
Upper Explosion Limit:	Not available
Autoignition Temperature:	Not available
Viscosity:	11.5- 13.99 @ 100 degrees C
Evaporation Rate(nBuAc=1):	Not available
Partition Coefficient (Kow):	Not available
Water Solubility:	Insoluble
Other Solvents:	Hydrocarbon Solvents

10. STABILITY AND REACTIVITY

Chemically Stable:	Yes
Hazardous Polymerization:	No
Sensitive to Mechanical Impact:	No
Sensitive to Static Discharge:	No
Incompatible Materials:	Avoid strong oxidizing agents.
Conditions of Reactivity:	Avoid excessive heat, formation of vapours or mists.

11. TOXICOLOGICAL INFORMATION

Ingredient (or Product if not specified)	Toxicological Data
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Routes of Exposure:	Exposure will most likely occur through skin contact or from inhalation of mechanically or thermally generated oil mists.
Formulation:	No data is specifically available for this product and therefore this toxicological information is based on testing completed with the ingredients.
Irritancy:	This product is not a primary skin irritant after exposure of short duration, is not a skin sensitizer and is not irritating to the eyes.

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Toxicological information cont'd

Chronic Effects: Long term intensive exposure to oil mist may cause lung fibrosis. Prolonged or repeated contact may cause various forms of dermatitis including folliculitis and oil acne. Long term intensive exposure to oil mist may cause benign lung fibrosis.

12. ECOLOGICAL INFORMATION

Environmental Effects: Do not allow product or runoff from fire control to enter storm or sanitary sewers, lakes, rivers, streams, or public waterways. Block off drains and ditches. Provincial regulations require and federal regulations may require that environmental and/or agencies be notified of a spill incident. Spill area must be cleaned and restored to original condition or to the satisfaction of authorities.

Biodegradability: Not readily biodegradable.

13. DISPOSAL CONSIDERATIONS

Waste management priorities (depending on volumes and concentration of waste) are: 1. recycle (process), 2. energy recovery (cement kilns, thermal power generation), 3. Incineration, 4. Disposal at a licenced waste disposal facility. Do not attempt to combust waste on-site. Incinerate at a licenced waste disposal site with approval of environmental authority. Landfill absorbed material in a government approved site.

14. TRANSPORTATION

Canadian Road and Rail Shipping Classification:

This product is not regulated under the Canadian Transportation of Dangerous Goods Regulations for transport by road and rail.

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15. REGULATORY INFORMATION

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

DSL/NDSL Status: THIS PRODUCT IS NOT A WHMIS CONTROLLED SUBSTANCE.
This product, or all components, are listed on the Domestic Substances List, as required under the Canadian Environmental Protection Act

Other Regulatory Provincial criteria are likely and should be requested when notifying provincial authorities. No Canadian federal standard: however, for general discharge guidance, federal installations limited to 15 mg/LL for total oil and grease.

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