

8.2 NER Model Gear Box Oil Material Safety Data Sheet (MSDS)

SECTION I		
MANUFACTURER'S NAME Nippon Oil Co., Ltd.	EMERGENCY TELEPHONE NUMBER 03-3502-9161	TELEPHONE NUMBER FOR INFORMATION 03-3502-1111
ADDRESS 3-12, Nishi Shimbashi 1-chome, Nimato-ku, Tokyo, 105 Japan		
DATE PREPARED Oct. 14, 1992	SIGNATURE OF PREPARER Signature on file at Harrington Hoists, Inc.	
TRADE NAME AND SYNONYMS BONNOC M 260	CHEMICAL NAME AND SYNONYMS Industrial gear oil	
WARNING STATEMENT CAUTION: Prolonged or repeated inhalation of fumes or contact with skin can be harmful.		
SECTION II TYPICAL COMPOSITION		
Base oil: (highly refined mineral oil)		>94%
Additives: (Oxidation inhibitor, Rust inhibitor, Emulsion breaker, Antiwear Agent, Antifoamer, Friction modifier)		<6%
Notes: These materials are listed in TSCA chemical substance inventory. The carcinogens that are listed in federal OSHA, IARC, NTP are not used in this product.		
SECTION III EXPOSURE STANDARD		
No OSHA exposure or Threshold Limit Value (TLV) has been established for this material. The suggested TLV is 5 mg/m ³ for a daily 8-hour exposure.		
This is the OSHA exposure standard and the TLV (1990-1991) for mineral oil mists.		
SECTION IV OCCUPATIONAL CONTROL PROCEDURES		
Eye protection:	Chemical type goggles or face shield optional.	
Skin protection:	Avoid prolonged or frequently repeated skin contact with wearing impervious protective clothing including gloves.	
Respiratory protection:	No special respiratory protection is normally required.	
Ventilation:	No special ventilation is usually necessary. However, if operating condition create high airborne concentrations of this material, special ventilation may be needed.	
Other clothing and equipment:	No special clothing and equipment is usually necessary.	
Work practices, hygienic practices:	No information is available.	
Other handling and storage requirements:	No information is available.	
Protective measures during maintenance contaminated equipment:	No information is available.	

SECTION V HEALTH HAZARD INFORMATION	
SYMPTOMS OF OVEREXPOSURE FOR EACH POTENTIAL ROUTE OF EXPOSURE	
Inhalation:	Not expected to be acutely toxic by inhalation.
Skin:	Expected to cause no more than minor skin irritation, but prolonged or frequently repeated skin contact may be harmful.
Eyes:	Expected to cause no more than minor irritation.
Absorption through skin:	No information is available.
Ingestion:	Not expected to be acutely toxic by ingestion.
HEALTH EFFECTS OR RISK FROM EXPOSURE	
Acute:	No information is available.
Chronic:	No information is available.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE	
No information is available.	
SECTION VI EMERGENCY AND FIRST AID PROCEDURES	
Eyes:	Wash eyes with fresh water for at least 15 minutes. If irritation continues, see a doctor.
Skin:	Wash skin thoroughly with soap and water. Launder contaminated clothing.
Inhalation:	None considered necessary.
Ingestion:	If swallowed, give a large amount of water to drink, make person vomit and call a doctor.
Sensitization property:	Unknown
SECTION VII MEDIAN LETHAL DOSE (LD ₅₀)	
Oral:	N.D. ; Believed to be greater than 5g/kg (rat) ; Practically non-toxic
Dermal:	N.D. ; Believed to be greater than 3g/kg (rabbit) ; Practically non-toxic
SECTION VIII FIRE PROTECTION INFORMATION	
Flash Point °C	240
Autoignition Temp. °C	N. D.
Flammability Limits	N. D.
Extinguishing Media:	Carbon Dioxide (CO ₂), Dry chemical foam, Water fog, or spray.
SECTION IX REACTIVITY DATA	
Stability:	<u> X </u> Stable <u> </u> Unstable
Conditions to avoid:	Do not store at high temperature.
Incompatibility (materials to avoid):	May react with strong oxidizing materials.
Hazardous polymerization:	<u> </u> May occur <u> X </u> Will not occur

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SECTION X REQUIREMENTS FOR TRANSPORTATION, HANDLING, AND STORAGE			
<p>Minimum feasible handling temperatures should be maintained. Periods of exposure to high temperatures should be minimized. Water contamination should be avoided.</p>			
SECTION XI SPILL, LEAK, AND DISPOSAL PROCEDURES			
<p>PROCEDURES IN CASE OF BREAKAGE OR LEAKAGE Wipe up or absorb on suitable material and shovel up.</p> <p><u>WASTE DISPOSAL METHOD</u> Place contaminated materials in disposable containers and bury in an approved dumping area.</p>			
SECTION XII CHEMICAL AND PHYSICAL PROPERTIES			
Density	15°C g/cm ³		0.900
Viscosity	C5t @40°C		260
Solubility			Insoluble in water
Boiling point			N. D.
Evaporation rate			N. D.
Vapor pressure	mmHg		N. D.
Vapor Density			N. D.
PH of undiluted product			N. D.
Percent Volatile by volume			N. D.
Appearance			Green colored liquid
Odor			Little odor
N. D. – not determined			