

## 8.0 Material Safety Data Sheets

### NOTICE

The ER and NER hoists are shipped new with the oil for the gear box and the grease for the load chain in separate container(s). In compliance with OSHA regulations, Material Safety Data Sheets (MSDS) have been provided for the gear oil that is provided in this separate container. The ER (with mechanical load brake/friction clutch) uses different gear oil than the NER (with friction clutch). Identify the correct model (refer to [Section 2.1](#)) before using the MSDS's below.

### 8.1 ER Model Gear Box Oil Material Safety Data Sheet (MSDS)

Effective date: June 9, 1998		MSDS No. 414005	
SECTION I CHEMICAL PRODUCT AND COMPANY IDENTIFICATION			
COMPANY IDENTIFICATION		NIPPON OIL COMPANY, LTD. 3-12, Nishi Shimbashi 1-chome, Minato-ku, Tokyo, 105-8412, Japan	
EMERGENCY TELEPHONE NUMBER:		+81-3-3502-9156	
TELEPHONE NUMBER FOR INFORMATION:		+81-3-3502-1111	
FAX NUMBER FOR INFORMATION:		+81-3-3502-3364	
PRODUCT NAME:		ANTOIL SUPER B	
PRODUCT USE:		Common lubricating oil for tractors	
SECTION II COMPOSITION/INFORMATION ON INGREDIENTS			
COMPOSITION			
<u>Components</u>	<u>Amount (%)</u>	<u>Limit</u>	
Highly refined petroleum oil	>92	5mg/m <sup>3</sup> TWA-OSHA (Mineral Oil Mist #1) 5 mg/m <sup>3</sup> TWA-ACGIH (Mineral Oil Mist #1)	
Additives	>8		
Anti-foam additives			
Detergents-dispersants			
Oxidation inhibitors			
<u>Hazardous Information</u>			
Product is non-hazardous. (1910, 1200 OSHA)			
#1 Highly refined petroleum oil, by definition, is considered hazardous according OSHA. Because it carries the Threshold Limit Value (TLV) for mineral oil mist.			

<b>SECTION III HAZARDS IDENTIFICATION</b>	
<b>EMERGENCY OVERVIEW</b>	
Warning statement:	
Caution! Prolonged or repeated contact with skin may cause irritation in some cases.	
Precautionary Measures:	
Avoid breathing vapor and mist. Keep container closed.	
Avoid contact with eyes, skin, and clothing.	
Wash thoroughly after handling. Keep away from heat.	
Potential health effect:	
Eyes:	May cause minor irritation.
Skin:	May cause minimal skin irritation.
Inhalation:	Vapor or mist, in excess of permissible concentrations, or in unusually high concentrations generated from spraying, heating the material, or as from exposure in poorly ventilated areas or confined spaces, may cause irritation of the nose and throat, headache, nausea and drowsiness.
Ingestion:	May cause abdominal discomfort, nausea or diarrhea.
Sensitization properties:	Unknown
Chronic Properties:	If prolonged exposure occurs, nausea, headache, diarrhea, and physical discomfort.
Other remarks:	None
<b>SECTION IV FIRST AID MEASURES</b>	
Eyes:	Flush immediately with water for at least 15 minutes. Get immediate medical attention.
Skin:	Wash with soap and water. Get medical attention if irritation develops. Launder contaminated clothing before reuse.
Inhalation:	Remove exposed person to fresh air if adverse effects are observed.
Ingestion:	Do not make person vomit unless directed to do so by medical personnel.
Note to physician:	Treat symptomatically.
<b>SECTION V FIRE FIGHTING MEASURES</b>	
Flash point (Typical), °C:	234(COC)
Autoignition tempt., °C:	Not Determined
Flammability limits:	Not Determined
Extinguishing media:	Carbon Dioxide (CO <sub>2</sub> ), dry chemical, or foam.
Special fire fighting procedures:	Recommend wearing self-contained breathing apparatus. Water may cause splattering. Material will float on water.
Unusual fire & explosion hazards:	Toxic fumes, gases or vapors may evolve on burning.
Autoignition temperature:	Not determined.
Explosion date:	Material does not have explosive properties.

SECTION VI ACCIDENTAL RELEASE MEASURES		
Procedures in Case of Accidental Release, Breakage, or Leakage: Stop the source of the leak or release. Clean up releases as soon as possible. Contain liquid to prevent further contamination of soil, surface water or groundwater. Clean up small spills using appropriate techniques such as absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Follow prescribed procedures for reporting and responding to larger releases.		
SECTION VII HANDLING AND STORAGE		
Do not weld, heat or drill container. Replace cap or bung. Emptied container still contains hazardous material which may ignite with explosive violence if heated sufficiently. Minimum feasible handling temperature should be maintained. Periods of exposure to high temperatures should be minimized. Water contamination should be avoided. CAUTION: Do not use pressure to empty drum or drum may rupture with explosive force.		
SECTION VIII EXPOSURE CONTROLS/PERSONAL PROTECTION		
Eye Protection:	Chemical type goggles or face shield optional.	
Skin Protection:	Avoid prolonged or frequently repeated skin contact by wearing impervious protective clothing including gloves.	
Respiratory Protection:	Wear a breathing mask.	
Ventilation:	No special ventilation is usually necessary. However, if operating conditions create high air borne concentrations of this material, special ventilation may be needed.	
Other clothing and equipment:	No special clothing or 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 of contaminated equipment:	No data available.	
SECTION IX PHYSICAL AND CHEMICAL PROPERTIES		
Odor		Slight odor
Appearance		Light brown liquid
Boiling point	°C	No Data Available
Solubility		Insoluble in water
Density	@15°C, g/cm <sup>3</sup>	0.885
Pour point	°C	-42.5
DMSO Extract (Base oil)	Mass % (IP 346)	< 3

SECTION X STABILITY AND REACTIVITY	
Stability:	Stable
Condition to Avoid:	See the Handling and Storage section for further details.
Incompatibility (materials to avoid):	Acids. Oxidizing agents. Halogens and halogenated compounds.
Hazardous Polymerization:	Will not occur.
Thermal decomposition:	Smoke, carbon monoxide, aldehydes and other products of incomplete combustion. Hydrogen sulfide and alkyl mercaptans and sulfides may also be released. Under combustion conditions, oxides of the following elements will be formed: Calcium, Sulfur, Zinc.
SECTION XI TOXICOLOGICAL INFORMATION	
Acute Oral:	No Data Available Believed to be greater than 5 g/kg (rat) Practically non-toxic
Dermal:	No Data Available Believed to be greater than 3 g/kg (rabbit) Practically non-toxic
Carcinogen:	OSHA This material is listed as Group 3 by IARC (Base oil) EU The classification as a carcinogen need not apply.
SECTION XII ECOLOGICAL INFORMATION	
Biodegradation:	No Data Available
Environmental fate:	This material is not expected to present any environmental problems other than those associated with oil spills.
SECTION XIII DISPOSAL CONSIDERATIONS	
Waste Disposal Method: Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations. Contact local environmental or health authorities for approved disposal of this material.	
SECTION XIV TRANSPORT INFORMATION	
The description shown may not apply to all shipping situations.	
DOT Proper Shipping Name:	Not applicable
IMDG Proper Shipping Name:	Not applicable
ICAO Proper Shipping Name:	Not applicable
TDG Proper Shipping Name:	Not applicable
NFPA Proper name:	Class 1.
UN Number:	Not applicable