

Trade Name: BP TRANSGEAR 80W-90
Supplier: BP Oil Company

===== CHEMICAL PRODUCT AND COMPANY IDENTIFICATION =====

TRADE NAME: BP TRANSGEAR 80W-90
CAS NUMBER: Mixture
SYNONYM(S): LUBRICANT MIXTURE
MSDS NUMBER: 1171
PRODUCT CODE: P 3288
HIERARCHY: 050.040
MANUFACTURER/SUPPLIER: BP Oil Company
ADDRESS: 200 Public Square, Cleveland, OH 44114-2375
TELEPHONE NUMBERS - 24 HOUR EMERGENCY ASSISTANCE:
BP America (In Ohio): 800-362-8059
BP America (Outside Ohio): 800-321-8642
CHEMTREC ASSISTANCE: 800-424-9300
TELEPHONE NUMBERS - GENERAL ASSISTANCE: (Normal Office Hours):
(8:00-4:30 M-F, EST):
Technical: 216-441-8106
MSDS Contact: 216-586-8023

===== COMPOSITION/INFORMATION ON INGREDIENTS =====

COMPONENT: Distillates (petroleum), solvent-dewaxed heavy paraffinic
CAS NO.: 64742-65-0
% BY WT.: 87 - 97
EXPOSURE LIMITS:
5 mg/m3 TLV ACGIH for oil mist, mineral
10 mg/m3 STEL ACGIH for oil mist, mineral
5 mg/m3 PEL OSHA for oil mist, mineral
5 mg/m3 REL NIOSH for oil mist, mineral
10 mg/m3 STEL NIOSH for oil mist, mineral
5 mg/m3 TWA MEXICAN for oil mist, mineral
10 mg/m3 STC MEXICAN for oil mist, mineral

COMPONENT: A lube oil additive package
CAS NO.: Mixture
% BY WT.: 2.9 - 13
EXPOSURE LIMITS: None Established

The OSHA Permissible Exposure Limits listed above were promulgated by OSHA in 1989. This standard was vacated by the U.S. Court of Appeals for the Eleventh Circuit. Exposure limits defined in specific chemical standards found in 29 CFR 1910.1000-1048 are not covered by this ruling and are still enforceable.

===== HAZARDS IDENTIFICATION =====

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EMERGENCY OVERVIEW:

Liquid.

May Be Irritating To the Skin, Eyes and Respiratory Tract.

POTENTIAL HEALTH EFFECTS:

SKIN:

May cause slight irritation. Repeated or prolonged contact may result in defatting, oil acne, redness, itching, inflammation, cracking and possible secondary infection. Contact with heated material may cause thermal burns.

EYE:

May cause slight transient irritation. Contact with heated material may cause thermal burns.

INHALATION:

Breathing of mists may cause respiratory tract irritation. Harmful concentrations of mists and/or vapors are unlikely to be encountered through any customary or reasonable foreseeable handling or use of this product.

INGESTION:

May cause gastrointestinal disturbances. Symptoms may include irritation, nausea, vomiting and diarrhea.

SPECIAL TOXIC EFFECTS:

Pre-existing skin disorders may be aggravated by exposure to this material.

See Section FIRST AID MEASURES - for Medical Conditions Aggravated By Exposure.

===== FIRST AID MEASURES =====

SKIN:

Remove contaminated clothing. Wash area of contact thoroughly with soap and water. Get medical attention if irritation persists. Launder clothing before reuse. Thermal burns require immediate medical attention.

EYE:

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Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation persists. Thermal burns require immediate medical attention.

INHALATION:

Remove affected person from source of exposure. If not breathing, ensure clear airway and institute cardiopulmonary resuscitation (CPR). If breathing is difficult, administer oxygen if available. After administration of oxygen, continue to monitor closely. Get immediate medical attention.

INGESTION:

Do not induce vomiting. If victim is conscious, give 1-3 glasses of water or milk to dilute stomach contents. Do not give anything by mouth if victim is semi-conscious or unconscious. If spontaneous vomiting occurs, monitor for breathing difficulty. Get immediate medical attention.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Persons with pre-existing skin and respiratory disorders may be more susceptible to the effects of this material.

NOTES TO PHYSICIAN:

The possible aspiration of high viscosity petroleum products is very slight. However, if aspirated, petroleum products may cause severe pneumonitis (oil pneumonia). In unconscious victims, use of an endotracheal tube should be considered if gastric lavage is undertaken.

===== FIREFIGHTING MEASURES =====

FLASH POINT: 149 C (300.2 F) COC
AUTOIGNITION TEMPERATURE: ND
FLAMMABILITY LIMITS IN AIR (% BY VOL.) LOWER: NA
FLAMMABILITY LIMITS IN AIR (% BY VOL.) UPPER: NA

HAZARDOUS COMBUSTION PRODUCTS:

Combustion may produce CO, CO2 and reactive hydrocarbons.

BASIC FIRE FIGHTING PROCEDURES:

Use water spray, dry chemical, foam or carbon dioxide to extinguish fire. Water or foam may cause frothing, with further application

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leading to boilover. Use water spray to cool fire-exposed containers, structures and to protect personnel. Use water to flush spills away from sources of ignition. Do not flush down public sewers or other drainage systems. Exposed firefighters must wear MSHA/NIOSH approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.

UNUSUAL FIRE & EXPLOSION HAZARDS:

Combustible at high temperatures. Irritating and/or toxic substances may be emitted upon thermal decomposition.

===== ACCIDENTAL RELEASE MEASURES =====

If your facility or operation has an "Oil or Hazardous Substance Contingency Plan", activate its procedures. Take immediate steps to stop and contain the spill. Caution should be exercised regarding personnel safety and exposure to the spilled material. For technical advice and assistance related to chemicals, contact CHEMTREC (800/424-9300) and your local fire department. Notify the National Response Center, if required. Also notify appropriate state and local regulatory agencies, the LEPC and the SERC. Contact the local Coast Guard if the release is into a waterway.

Keep unnecessary people away. Keep ignition sources out of area. Stop leak if you can do it without risk. Small Spills: Take up with sand or other noncombustible absorbent material and place into containers for later disposal. Large Spills: Dike far ahead of liquid spill for later disposal.

During an accidental release, personal protection equipment may be required (see Section EXPOSURE CONTROLS/PERSONAL PROTECTION). Additional regulatory requirements may apply (see Section REGULATORY INFORMATION).

===== HANDLING AND STORAGE =====

HANDLING:

Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Remove contaminated clothing and clean before reuse. Wash thoroughly after work using soap and water.

Empty containers may contain toxic, flammable/combustible or explosive residue or vapors. Do not cut, grind, drill, weld, reuse or dispose containers unless adequate precautions are taken against these hazards.

STORAGE:

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Avoid extremes of temperature in storage. Store in tightly closed containers in cool, dry, isolated, well-ventilated area away from heat, sources of ignition and incompatibles. Do not store in unlabeled containers.

===== EXPOSURE CONTROLS / PERSONAL PROTECTION =====

ENGINEERING CONTROLS:

Ventilation and other forms of engineering controls are often the preferred means for controlling chemical exposures.

PERSONAL PROTECTION EQUIPMENT (PPE):

EYE PROTECTION:

Avoid eye contact with this material. Wear safety glasses or chemical goggles. Provide an eyewash station immediately accessible to the work area. Do not wear contact lenses when working with this substance.

SKIN PROTECTION:

Avoid skin contact. When working with this substance, wear appropriate chemical protective gloves. Depending upon conditions of use, additional protection may be necessary such as face shield, apron, armcovers, etc.

RESPIRATORY PROTECTION:

If respiratory irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

See Section COMPOSITION/INFORMATION ON INGREDIENTS For Exposure Guidelines.

===== PHYSICAL AND CHEMICAL PROPERTIES =====

BOILING POINT:	> 218.3333 C (425 F) @ 760 mmHg
SP. GRAVITY (Water=1):	0.89 @ 15.5556 C (60 F)
MELTING POINT:	ND
% VOLATILE:	Negligible
VAPOR PRESSURE:	Negligible
EVAPORATION RATE:	Negligible
VAPOR DENSITY (Air=1):	Heavier
VISCOSITY:	14 - 15 CST @ 100 C (212 F)
% SOLUBILITY IN WATER:	Negligible
POUR POINT:	ND
pH:	ND
BULK DENSITY:	ND
MOLECULAR WEIGHT:	ND

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MOLECULAR FORMULA:
ODOR/APPEARANCE:
Liquid.

Mixture

===== STABILITY AND REACTIVITY =====

STABILITY/INCOMPATIBILITY:

Stable under conditions of normal use. Avoid contact with oxidizing agents.

HAZARDOUS REACTIONS/DECOMPOSITION PRODUCTS:

May also produce NOx and SOx.

===== DISPOSAL CONSIDERATIONS =====

WASTE DISPOSAL (Resource Conservation & Recovery Act - RCRA):

This substance, when discarded or disposed of, is not specifically listed as a hazardous waste in Federal regulations; however it could be characteristically hazardous if it is considered toxic, corrosive, ignitable, or reactive according to Federal definitions (40 CFR 261). Additionally, it could be designated as hazardous according to state regulations. This substance could also become a hazardous waste if it is mixed with or comes in contact with a hazardous waste. Check 40 CFR 261 to determine whether it is a hazardous waste. If it is a hazardous waste, regulations at 40 CFR 262, 263, 264, 268 and 270 apply. The transportation, storage, treatment, and disposal of this waste material must be conducted in compliance with all applicable Federal, state, and local regulations.

There may be specific current regulations at the local, regional, or state level that pertain to this information. Chemical additions, processing, or otherwise altering this material may make the waste

===== TRANSPORT INFORMATION =====

U.S. DEPARTMENT OF TRANSPORTATION (D.O.T.):

Proper Shipping Name (49 CFR 172.101):	Petroleum Oil, N.O.I.B.N.
Hazard Class (49 CFR 172.101):	Not Regulated
UN/NA Code (49 CFR 172.101):	Not Regulated
Packing Group (49 CFR 179.101):	Not Regulated
Bill Of Lading Desc. (49 CFR 172.101):	Petroleum Oil, N.O.I.B.N.
Labels Required (49 CFR 172.101):	Not Regulated
Placards Required (49 CFR 172.101):	Not Regulated

INTERNATIONAL AND DOMESTIC AIR TRANSPORTATION:

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IATA Proper Shipping Name: Petroleum Oil, N.O.I.B.N.
Hazard Class: Not Regulated
Subsidiary Risk: Not Regulated
UN Code: Not Regulated
Package Specification: Not Regulated
Labels Required: Not Regulated

INTERNATIONAL WATER TRANSPORTATION:

IMDG Proper Shipping Name: Petroleum Oil, N.O.I.B.N.
Hazard Class: Not Regulated
UN Code: Not Regulated
IMDG Page Number: Not Regulated
Labels Required: Not Regulated
Placards Required: Not Regulated

CANADIAN TRANSPORTATION OF DANGEROUS GOODS (T.D.G.):

Shipping Name: Petroleum Oil, N.O.I.B.N.
PIN (UN/NA): Not Regulated
Regulated Class: Not Regulated
Division: Not Regulated
Packaging Group: Not Regulated
Labels Required: Not Regulated
Placards Required: Not Regulated

===== REGULATORY INFORMATION =====

NOTIFICATION:

Any spill or release, or substantial threat of release, of this material to navigable water (virtually any surface water) sufficient to cause a visible sheen upon the water must be reported immediately to the National Response Center (800/424-8802), as required by U.S. Federal Law. Failure to report may result in substantial civil and criminal penalties. Also contact the Coast Guard and appropriate state and local regulatory agencies.

US EPA TOXIC SUBSTANCE CONTROL ACT (TSCA):

All components of this product are listed on the TSCA inventory.

US EPA SUPERFUND AMENDMENTS & REAUTHORIZATION ACT (SARA) TITLE III INFORMATION:

Listed below are the hazard categories for SARA Section 311/312 (40

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CFR 370):
 Immediate Hazard: X
 Delayed Hazard: -
 Fire Hazard: -
 Pressure Hazard: -
 Reactivity Hazard: -

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA):

All components of this product are listed on the Canadian DSL Inventory.

CANADIAN WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS) CATEGORIES:

The following WHMIS categories apply to this product:

Compressed Gas:	-	Other Toxic Effects:	X
Flammable/Combustible:	-	Bio Hazardous:	-
Oxidizer:	-	Corrosive:	-
Acutely Toxic:	-	Dangerously Reactive:	-

===== OTHER INFORMATION =====

NFPA RATINGS:

Health: 1
 Flammability: 1
 Reactivity: 0
 Special Hazards: -

HMIS RATINGS:

Health: 1
 Flammability: 1
 Reactivity: 0
 Personal Protective Equipment: H

REVISION DATE:

25-nov-1996

REPLACES SHEET DATED:

19-may-1993

COMPLETED BY:

BP OIL HSEQ DEPARTMENT

REVISION SUMMARY: The following section(s) have been revised since the previous issue of this MSDS:

- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION
- COMPOSITION/INFORMATION ON INGREDIENTS
- HAZARDS IDENTIFICATION
- FIRST AID MEASURES
- FIREFIGHTING MEASURES
- ACCIDENTAL RELEASE MEASURES
- HANDLING AND STORAGE
- EXPOSURE CONTROLS / PERSONAL PROTECTION
- PHYSICAL AND CHEMICAL PROPERTIES
- STABILITY AND REACTIVITY
- TOXICOLOGICAL INFORMATION
- TRANSPORT INFORMATION
- REGULATORY INFORMATION
- OTHER INFORMATION

NOTICE: The information presented herein is based on data considered to be accurate as of the date of preparation of this Material Safety Data Sheet. However, no warranty or representation, express or implied, is made as to the accuracy or completeness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. In addition, no responsibility can be assumed by vendor for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.

ND: No Data NA: Not Applicable *See specific note or section