

## EP GEAR OIL 320

### Section 1. Identification

Material name:	NATIONAL EP GEAR OIL 320
Product Code	53602
SDS no.	SDS 53602-1
<u>Relevant identified uses of the substance or mixture and uses advised against</u>	
Use of the substance/ mixture	Industrial gear lubricants For specific application advice see appropriate Technical Data Sheet or consult our company representative
Manufacturer	Technolube L.L.C
Supplier	P.O.BOX: 116636, Techno Park Dubai, United Arab Emirates <a href="http://www.technolubeuae.com">www.technolubeuae.com</a> Tel: +971 4 801 8444 Fax: +971 4 886 7014
Emergency Telephone Number	Technical Services Department Telephone: +966 12 215 7000

### Section 2. Hazard(s) identification

Classification of the  
substance or mixture

Not classified

#### GHS label elements:

Hazard Pictograms: No hazard pictogram is used

Signal word: No signal word is used

Hazard statement: Not applicable

#### Precautionary statement:

Prevention: Not applicable

Response: Not applicable

Storage: Not applicable

Disposal: Not applicable

Other hazards which do  
not result in classification

Not applicable

## Section 3. Composition and ingredient information

Substance/ mixture Mixture

Components	CAS No.	Percent
Hydrotreated heavy paraffinic	64742-54-7	88-94%
Performance Additives	Mixture	6-12%

## Section 4. First aid measures

### Description of necessary first aid measures

Eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check and remove any contact lenses. Get medical attention
Skin contact	No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water.
Inhalation	If inhaled, remove the person to fresh air. Get medical attention if symptoms
Ingestion	Do not induce vomiting. As a precaution, get medical advice.
Symptoms caused by exposure	Not available
Special Treatment	No special treatment

## Section 5. Fire-fighting measures

### Extinguishing media

**Suitable extinguishing media:** In case of fire, use Foams, dry chemicals, CO<sub>2</sub>, nylons and powders  
**unsuitable extinguishing media:** Do not use water

Protection Equipment	Heat resistant suit and gloves, Self-contained breathing apparatus
Special Risks	None
Special Measures	Not required
Combustion Products	CO <sub>2</sub> , H <sub>2</sub> O, CO (in defect of air), nitrogen, sulfur and phosphorus oxides

## Section 6. Accidental release measure

Precautions for the Environment	Hazard of physical fouling to coasts, soils, etc. due to low solubility and high viscosity of the oils. Avoid the material entering water intakes
Clean-up Method	Treat as an accidental oil spill or leak; avoid dispersion of the material with mechanical barriers. Remove with physical or chemical treatment
Personal Precautions	Avoid prolonged contact with contaminated clothes or with the product
Personal Protection	Gloves and goggles or face shield

## Section 7. Handling and storage

### Precautions for safe handling

<b>General Precautions</b>	Avoid prolonged contact and inhalation of mists and vapors
<b>Specific conditions</b>	Safety goggles and gloves should be used

### Precautions for safe storage

<b>Storage condition</b>	Containers properly labeled and sealed, placed in cool and
<b>Incompatible materials</b>	Strong oxidants
<b>Dangerous practices</b>	Not available

## Section 8. Exposure control/ Personal protection

### Control parameters:

<b>Exposure Level</b>	Not available
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<b>Inhalation</b>	Low vapor pressures: The product is slightly volatile at room temperature and does not present special risks. In presence of heated oils, wear protective masks to avoid vapor inhalation
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<b>Skin</b>	Gloves
<b>Eye</b>	Safety goggles



<b>Other</b>	Showers and eye-washers in the working area
<b>Specific Hygiene measure</b>	Good work practices to minimize exposure and adoption of good Personal hygiene measures avoid the presence of skin rash and oil acne

<b>Exposure Level</b>	TLV (typical base oil) = 0.016 PPM at 20°C (saturated vapor Concentration); TLV/TWA (ACGIH) = 5mg/m <sup>3</sup> (oil mist); TLV/STEL (ACGIH) = 10mg/m <sup>3</sup> (oil mist)
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## Section 9. Physical and chemical properties

### Information on basic physical and chemical properties:

#### Appearance:

<b>Physical state:</b>	Liquid
<b>Color:</b>	Brownish Oil
<b>Specific Gravity (at 15°C):</b>	0.903 (typical)
<b>Flash point:</b>	256 °C
<b>Explosive Properties:</b>	Not available
<b>Oxidizing Properties:</b>	Not available
<b>Water Solubility:</b>	Insoluble (100 PPM max. H <sub>2</sub> O)
<b>Solubility:</b>	Organic solvents
<b>Vapor Density:</b>	Not available
<b>Vapor Pressure:</b>	Not available
<b>Viscosity at 100°C:</b>	24.4 cSt (typical)
<b>Pour Point:</b>	-9 °C (typical)
<b>Boiling Point:</b>	Not available

## Section 10. Stability and reactivity

<b>Reactivity</b>	Stable under recommended transport storage conditions
<b>Chemical stability</b>	Stable under normal temperature pressures
<b>Polymerization Risk</b>	Not available
<b>Materials to Avoid</b>	Strong oxidants react with oils and organic materials
<b>Hazardous Decomposition products</b>	Not available
<b>Condition to Avoid</b>	Exposure to open flames

## Section 11. Toxicological information

<b>Routes of Exposure</b>	Contact with skin, eyes and inhalation. Ingestion is not frequent.
<b>Acute and chronic Effects</b>	No malignant acute effects are known. Chronic effects due to repeated exposures are irritation, dermatitis and acne
<b>Carcinogenicity</b>	Not available
<b>Reproductive Toxicity</b>	No evidences
<b>Medical Conditions which increase Hazard to Exposure</b>	Respiratory tract deficiencies and dermatological problems

## Section 12. Ecological information

### Pollutant Potential:

<b>Persistence and Degradability</b>	the material is oily and viscous and floats on water. It presents a high physical fouling potential, mainly in sea-spills; by contact, destroys small aquatic organisms and makes living difficult for upper organisms, not allowing the sunlight to reach underlying marine ecosystems, affecting its normal development.
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<b>Mobility/Bioaccumulative Potential</b>	it does not present bioaccumulative problems in living organisms or incidence in the tropic food chain, although it may cause long-term adverse effects in the aquatic environment, due to its high physical fouling potential
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<b>Eco toxicological Effect:</b>	Dangerous for aquatic life in high concentrations (spills).
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## Section 13. Disposal consideration

<b>Disposal Methods (surplus)</b>	Recycling and recovery of base oils when possible
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<b>Disposal (waste)</b>	Only in specific prepared and controlled areas. Avoid releasing oils to sewers because they can destroy water treatment plant Microorganisms. Do not attempt to clean containers since residue is difficult to remove; dispose in a safe way.
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<b>Handling (waste)</b>	Labeled and sealed containers. Avoid direct contact with waste oils.
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## Section 14. Transport information

Special Precautions	Stable at room temperature and during transport. Store in cool well ventilated areas.
UN Number	Not regulated
Road (ADR)/ Rail (RID) /River (ADNR)	Not regulated
Airline (IATA-ACAO)	Not regulated
Marine (IMO-IMDG)	Not regulated
Special precautions for user	Not available

## Section 15. Regulatory information

Regulation	CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs (in pounds) This material does not contain any chemicals subject to the reporting requirements of SARA 302 and 40 CFR 372.		
CERCLA/SARA - Section 311/312 (Title III Hazard Categories)	Acute Health:	No	
	Chronic Health:	No	
	Fire Hazard:	No	
	Pressure Hazard:	No	
	Reactive Hazard:	No	
CERCLA/SARA - Section 313 and 40 CFR 372	This material does not contain any chemicals subject to the reporting requirements of SARA 313 and 40 CFR 372		
EPA (CERCLA) Reportable Quantity (in pounds)	This material does not contain any chemicals with CERCLA Reportable Quantities		
California Proposition 65	This material does not contain any chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm at concentrations that trigger the warning requirements of California Proposition 65		
Canadian	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 Regulations. WHMIS Hazard Class: None		
National Chemical Inventories	All components are either listed on the US TSCA Inventory, or are not regulated under TSCA. All components are either on the DSL, or are exempt from DSL listing requirements		
U.S. Export Control Classification Number	EAR99		

## Section 16. Other information

### History:

**Date of Issue** 10/29/2018  
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**Status:** Final  
**Previous Issue Date**

### **Guide to Abbreviations**

<b>CAS</b>	Chemical Abstracts Service
<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>CASRN</b>	Chemical Abstracts Service Registry Number
<b>CEILING</b>	Ceiling Limit (15 minutes)
<b>CERCLA</b>	The Comprehensive Environmental Response, Compensation, and Liability Act
<b>EPA</b>	Environmental Protection Agency
<b>IARC</b>	International Agency for Research on Cancer
<b>LEL</b>	Lower Explosive Limit
<b>NE</b>	Not Established
<b>NFPA</b>	National Fire Protection Association
<b>NTP</b>	National Toxicology Program
<b>OSHA</b>	Occupational Safety and Health Administration
<b>PEL</b>	Permissible Exposure Limit (OSHA)
<b>SARA</b>	Superfund Amendments and Reauthorization Act
<b>STEL</b>	Short Term Exposure Limit (15 minutes)
<b>TLV</b>	Threshold Limit Value (ACGIH)
<b>TWA</b>	Time Weighted Average (8 hours)
<b>UEL</b>	Upper Explosive Limit
<b>WHMIS</b>	Worker Hazardous Materials Information System (Canada)

### **Disclaimer of Expressed and implied Warranties**

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