SAFETY DATA SHEET

EP GEAR OIL 220

Section 1. Identification

Material name:	NATIONAL EP GEAR OIL 220
Product Code	53502
SDS no.	SDS 53502-1

Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/ mixture	Industrial gear lubricants For specific application advice see appropriate Technical Data Sheet or consult our company representative
Manufacturer Supplier	Technolube L.L.C P.O.BOX: 116636, Techno Park Dubai, United Arab Emirates www.technolubeuae.com 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 through 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 medi In case of fire, use Foams, dry chemicals, CO_2, 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 CO2, H_2O, 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	
General Precautions	Avoid prolonged contact and inhalation of mists and vapors
Specific conditions	Safety goggles and gloves should be used
Precautions for safe storage	
Storage condition	Containers properly labeled and sealed, placed in cool and
Incompatible materials	Strong oxidants
Dangerous practices	Not available

Section 8. Exposure control/ Personal protection

Control parameters:

Exposure Level	Not available
Inhalation	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
Skin	Gloves
Eye	Safety goggles

Other	Showers and eye-washers in the working area
Specific Hygiene measure	Good work practices to minimize exposure and adoption of good Personal hygiene measures avoid the presence of skin rash and oil acne
Exposure Level	TLV (typical base oil) = 0.016 PPM at 20ºC (saturated vapor Concentration); TLV/TWA (ACGIH) = 5mg/m3 (oil mist); TLV/STEL (ACGIH) = 10mg/m3 (oil mist)

Section 9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:

Physical state:	Liquid
Color:	Brownish Oil
Specific Gravity (at 15ºC):	0.901 (typical)
Flash point:	254 ºC
Explosive Properties:	Not available
Oxidizing Properties:	Not available
Water Solubility:	Insoluble (100 PPM max. H_2O)
Solubility:	Organic solvents
Vapor Density:	Not available
Vapor Pressure:	Not available
Viscosity at 100ºC:	19.2 cSt (typical)
Pour Point:	-12 ºC (typical)
Boiling Point:	Not available

Section 10. Stability and reactivity

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

Section 11. Toxicological information

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

Section 12. Ecological information

Pollutant Potential:

Persistence and Degradability	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.
Mobility/Bioaccumulative Potential	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
Eco toxicological Effect:	Dangerous for aquatic life in high concentrations (spills).

Section 13. Disposal consideration

Disposal Methods (surplus)	Recycling and recovery of base oils when possible
Disposal (waste)	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.
Handling (waste)	Labeled and sealed containers. Avoid direct contact with waste oils.

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:

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Previous Issue Date	

Guide to Abbreviations

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

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