Material Safety Data Sheet

'I. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:	**QPLEX EP GREASE**
PRODUCT USE	EP Grease (NLGI 00,0,1,2,3)
FORMULA:	N/A - Mixture
PRODUCT CAS NO.:	N/A — Mixture
HS CODE	27101992
COMPANY NAME	**Qatol Lubricants**
EMERGENCY CONTACT NUMBER	**+974 4443 4005**

2. HAZAR DS IDENTIFICATION

HAZARD CLASSIFICATION

This material is not classified as hazardous according to criteria for the Hazardous Substances

POTENTIAL HEALTH EFFECTS

Not regarded as a health hazard under normal conditions of use.

ENVIRONMENTAL HAZARD

Do not dispose the product in a manner which can cause environmental pollution,

POTENTIAL HEALTH EFFECTS

Not regarded as a health hazard under normal conditions of use.

EMERGENCY OVERVIEW

As defined by OSHA's Hazard Communication Standard, this product is non-hazardous.

Appearance & Odor: Amber semi-solid to solid grease with a faint petroleum odor Accidental high-velocity injection under the skin may result in serious injury. Seek medical attention immediately, The initial wound at the injection site may not appear, still requires immediate treatment at a sur8ical emergency center; else disfigurement or amputation of the affected part may occur. Treatment may include: surgical decompression, debridement and drainage,

ACUTE EFFECTS

Inhalation: Not expected to be harmful if inhaled.

Contains a petroleum-based mineral oil, Heating can generate vapors that may cause respiratory irritation, nausea and headaches. Symptoms of respiratory irritation may include coughing and difficulty breathing. Under normal working **conditions product is completely** safe.

Eye: Mild Eye irritation. Flush eye with copious amount of water. Not expected to cause prolonged or significant eye irritation.

Skin: Contact with the skin is not expected to cause prolonged or significant irritation. Nominal Contact with the skin is not expected to cause an allergic skin response. Harmful to internal organs if injected through the skin.

Ingestion: Harmful if swallowed. Repeated exposure or ingestion *may* be harmful or fatal.

Chronic Effects: Repeated exposure or ingestion may be harmful or fatal.

3. INGREDIENTS: COMPOSITION/HAZARDOUS INFORMATION

Ingredient Name	CAS Number	*'fi› wt or%* vol
Mineral Base Oils (Mixed)	CAS 64742-54-7	70-90
Performance Additives	CAS 68937-96-2	1-10
Thickeners		S-2S

Hazardous Ingredients: This product contains minor harmful ingredients. However, their quantities are negligible to classify the as hazardous.

May contain the following Reportable Hazardous Substance(s) or Complex Substance(s)

Substances presenting a health hazard:	CAS Number	Content
Zinc dialkyldithiophosphates (ZDDP)	68457-79-4	<0.019s
Diphenylamine	122-39-4	<0.01S6
Alkylated Phenol	68081-86-7	<0.8%
Aminic Salt of Phosphoric Acid Esters	s1188-14-5	0.1°4 to 1%

In 8eneral, the product does not contain any component that may be a significant health and safety hazard as long as normal precautions in greases are observed and good standards of industrial and personal hygiene are maintained.
The composition of this product is proprietary information.

Hazardous Material Identification System (HMIS): Health: 0, Flammability: 1, Reactivity : 0

4. FIRST AID MEASURES

Inhalation: No specific first aid measures are required. If overcome by mists or fumes, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Eye Contact: No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.
Skin Contact: No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. Wash clothing before reuse and discard contaminated shoes, to remove the material from skin, use soap and water. Get medical attention if irritation develops or persists.
Accidental high-velocity injection under the skin may result in serious injury. Seek medical attention immediately, the initial wound at the injection site may not appear, still requires immediate treatment at a surgical emergency center; else disfigurement or amputation of the affected part may occur. Treatment may Include surgical decompression, debridement and drainage
Ingestion: No specific first aid measures are required. If substantial quantities are ingested, seek medical attention immediately. Do not induce vomiting. Never give anything by mouth to an unconscious person.

Afier first aid, get appropriate in-plant, paramedic, or community medical support.

Note to Physicians: There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE FIGHTING MEASURES

Not classified as flammable or combustible. NFPA Class-lllB combustible material

FLAMMABLE PROPERTIES:
Flashpoint: (Cleveland Open Cup) 205 °C (Min)
Auto ignition: No Data Available
Flammability (Explosive) Limits (96 by volume in air):
Lower: Not Detectable
Upper: Not Detectable

EXTINGUISHING MEDIA:
SMALL FIRE: Use foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

LARGE FIRE: Use foam, dry chemical or carbon dioxide (CO2) to extinguish flames. Do not use water jets.

PROTECTION OF FIRE FIGHTERS:
Fire **Fighting Instructions: This** material will burn although it is not easily ignited.
For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.
Combustion Products: Highly dependent on combustion conditions. A complex mixture of fine airborne solids, smoke and gases including carbon monoxide, carbon dioxide, Sulphur oxides, unidentified organic compounds such as aldehydes and inorganic compounds.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions:

Avoid dispersal of leaked material and potential mix up into soil, water bodies, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution.

Small leakage:

Protective Measures: Eliminate all sources of ignition in vicinity of spilled material.
Absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spraying water based nonionic surfactant cleaners on the contaminated surface and dispose them accordin8 to local regulatory requirements.

Large leakage:

Protective Measures: Eliminate all sources of ignition in vicinity of spilled material.

Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up contamination as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials for land leakage using booms for leakage in water. Wherever feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose them off in a manner consistent with applicable local regulations or through a licensed waste disposal contractors.

7. HANDLING AND STORAGE

Precautionary Measures: Keep out of the reach of children.

Precautions:

Keep away from sources of ignition and heat. Do not ingest. Do not inhale gas/fumes/ spray. Ingestion of small amounts should not be harmful. If substantial quantities are ingested, seek medical advice immediately and show the container or the label. Avoid prolong contact with skin and eyes. Wash hands thoroughly after handling or in contact with the material. Do not store in un-labelled containers

Container Warnings:

Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a re-conditioner or disposed of properly.

Static Hazard:

Electrostatic charge may accumulate and create a hazardous condition when handling this material.

Storage:

Xeep the container dry and shaded place. Keep opened container tightly closed and upright position. Keep it in a cool, well ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS: No significant exposure limits. Hence not applicable

Material	Reference	Type	ppm	mg/m3 **(Tentative)**	Skin **Notation**
Oil fumes	NIOSH REL	REL-TWA (10 hours)	N/A	5 mg/m'	N
Oil fumes	ACGIH TLV	TLV-TWA (8 hours)	N/A	5 mg/m^	N
Oil fumes	Cal/OSHA PEL	PEL-TWA	N/A	5 mg/m'	N

GENERAL CONSIDERATIONS:

Consider the potential hazards of this material (see Section 3), applicable exposure limits, job activities, and other substances in the workplace when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

ENGINEERING CONTROLS:

Use in a well-ventilated area, away from sources of heat and ignition.

PERSONAL PROTECTIVE EQUIPMENT

Eye/Face Protection: No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

Skin Protection: No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances in the workplace.

Respiratory Protection: No respiratory protection is normally required.

If user operations generate oil vapours, determine if airborne concentrations are below the occupational exposure limit for mineral oil vapours. If not, wear an approved respirator that provides adequate protection from the measured concentrations of this material.

9. PHYSICAL AND CHEMICAL PROPERTIES

Attention: the data below are typical values and do not constitute a specification.

APPEARANCE:	Brown, Semi-solid at ambient temperature
ODOR:	Mild petroleum odor
UPPER/ LOWER FLAMMABILITY OR EXPLOSION LIMITS	Not Applicable
ODOR THRESHOLD	Not Applicable
AUTOIGNITION TEMPERATURE	>330°C
BOILING POINT:	>300°C
FLASH POINT	206°C
VAPOR PRESSURE:	<0.01 mmHg @ 100 °C (212 °F)
VAPOR DENSITY:	(Air= 1): >1
SOLUBILITY IN WATER:	Negligible
SPECIFIC GRAVITY:	0.899 @ 15.6°C (60.1°F) (Typical)
Worked Penetration, 25°C	As per Thickness of grease as per NLGI class
MELTING (DROP) POINT	186”C
pH:	NA
% VOLATILITY	< 196
PARTITION COEFFICENT	NA

10. STABILITY ANP REACTIVITY

Reactivity Not reactive under ambient temperature

Chemical Stability:	The product is stable.
Instability Temperature:	Extreme temperatures
Conditions of Instability:	**Direct** strong sunlight

Incompatibility with various substances:	May react with strong acids or oxidizing agents.
Corrosivizy:	Not considered corrosive
Special Remarks on Reactivity:	Keep container tightly closed.
Special Remarks on Corrosivity:	Noncorrosive
Hazardous Combustion Products:	Smoke, Carbon Monoxide, CO2, SO2 and aldehydes

TOXICOLOGICAL INFORMATION

None of the grease requires a cancer warning, these grease have not been listed in the Toxicology Program.
For other health-related information, refer to the Emer8ency Overview on Page 1 and the Hazards Identification in Section 4 of this MSDS.
inhalation: At normal ambient temperatures this product will be unlikely to present an inhalation hazard because of its low volatility. May cause irritation to eyes, nose and throat due to exposure to vapour, mists or fumes. May be harmful by inhalation if exposure to vapour or fumes resulting from thermal decomposition products occurs
Ingestion: Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhoea
Skin: Unlikely to cause harm to the skin on brief or occasional contact but prolonged or repeated exposure may lead to dermatitis or skin irritation.
Eyes: Unlikely to cause more than transient stinging or redness if accidental eye contact occurs.
Carcinogeniclty Classification : For fresh lubricating greases, it not classifiable as per OSHA , IARC Group 3 and NTP. During use in equipments, contamination of oil with low levels of cancer-causing oxidation products occurs. Used greases have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used grease is not expected to have serious effects in humans if the grease is thoroughly removed by washing with soap and water.

12. ECOLOGICAL INFORMATION

ECOTOXICITY

Ecotoxicological data have not been determined specifically for this product. This material is not expected to cause chronic effects to aquatic organisms at LL/EL/IL50 > 100 mg/I, but the major leakages can cause films that may impair oxygen transfer, due to poor solubility in water.

PERSISTENCE AND DEGRADABILITY

This material is not expected to be readily biodegradable.

BIO-ACCUMULATIVE POTENTIAL

Only the minor components may have the potential to bio-accumulate.

MOBILITY

Major leakages to the soil may inherently cause groundwater pollution due to oil separation from grease. Minor leakages are adsorbed by the sand particles.

OTHER ADVERSE EFFECTS

Due to low volatility nature, it has low potential of ozone depletion or global warming.

13. DISPOSAL CONSIDERATIONS

Do not dispose into the environment, in the soil, in drains or in water sources. Grease waste collection services are possible through used grease recycling or disposal through government certified waste collectors. Empty used containers may retain some product residuals. Place contaminated materials in containers and dispose of in a manner consistent with applicable local regulations. Contact local environmental or health authorities for guidance while carrying incinerations under control conditions to meet emission norms. Refer section 8 for PPE

14. TRANSPORT INFORMATION

MINERAL PETROLEUM BASED LUBRICATING GREASE, NOT CLASSIFIED AS DANGEROUS GOODS FOR SHIPPING AND TRANSPORT

DOT Status (in the US)
Not a U.S. Department of Transportation regulated material.

International Information
IMDG ADR, RID, UN , IMO, IATA/ICAO Not Regulated

Proper **Shipping** Name: MINERAL BASED LUBRICATING GREASE
Hazard Class **Identification:** Not applicable.
Special Provisions for Transport: Not Regulated.
Packing Group(s) Number: Not applicable.
UN/NA ID : Not applicable.
Reportable Quantity Not applicable.
A Reportable Quantity (RQ) has not been established for any components of this material.
Transport in bulk according to Annex **II of MARPOL 73/78** and the IBC code

15. REGULATORY INFORMATION

This product is not known to contain any components for which has found to cause cancer, birth defects or other reproductive harm and is not regulated as hazardous to supply.
This product is not known to contain any components that is regulatory controlled components.
Additional Regulatory Remarks No additional regulatory remarks.
REACH Status: For the REACH status of this product please consult your company contact

16. OTHER INFORMATION

Other Special Considerations: Not Applicable
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DISCLAIMER

The information in this MATERIAL SAFETY DATA SHEET should be provided to all who will use, handle, store, transport, or otherwise be exposed to this material. This information has been prepared for the guidance of plant engineering, operations and management, and for persons working with or handling this material.

The manufacturer believes this information to be reliable and up-to-date as of the date of publication. However, the information is provided without any warranty, expressed or implied regarding its correctness. The conditions or method of handling, storage, use and disposal of product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and liability for any loss or damage arising out of or anyway connected with handling, storage, use or disposal of product.