

Material Safety Data Sheet

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PT Maxnitron Lithium Grease EP 2, EP 3

Product Use: Lubricating Grease

Company Identification: PTG Energy Public Company Limited

90 CW TOWER A (33rd Floor),
Ratchadaphisek Rd., HuayKwang, HuayKwang,
Bangkok, Thailand 10310

Emergency Call: 0-2168-3377, 0-2168-3388

Website: <https://www.ptgenergy.co.th/> ; <http://www.ptgenergy.co.th/ptmaxnitron/>

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture:

- ☐ **Skin Corrosion / Irritation** Category 3
- ☐ **Serious Eye Damage / Eye Irritation** Category 2B

2.2 Label Elements:

Pictogram: No

Signal Word: Warning

Hazard Statement(s): H316: Caused Mild Skin irritation
H320: Caused Eye irritation

Precautionary Statement(s):

- ☐ **Prevention:** P264: Wash Thoroughly After Handling
- ☐ **Response:** P305+P351+P338: Rinse cautiously with water for several minutes, Remove contact lenses, if present and easy to do. Continue rinsing
P332+P313: If skin irritation occurs: Get medical advice/attention.
P337+P313: If eye irritation persists: Get medical advice/attention

2.3 Other Hazards: No Data Available

Revision Number: 0

Product Name: PT Maxnitron Lithium Grease EP 2, EP 3

Revision Date: 07-Apr-2020_IS

SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

Complex Mixture:

Chemical Name	CAS Number	Concentration
Distillates (Petroleum), Solvent-Dewaxed Heavy Paraffinic	64742-65-0	80 - 90%
Additives	Proprietary	10 - 20%

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures:

- Inhalation:** Remove person to fresh air. If not breathing, give artificial respiration. Get medical attention.
- Skin Contact:** Wash contact areas with soap and water. Launder contaminated clothing before reuse.
- Eye Contact:** Flush thoroughly with water for at least 15 minutes. If irritation occurs, get medical attention.
- Ingestion:** Do NOT induce vomiting. Get immediate medical attention.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed:

Headache, dizziness, nausea, respiratory irritation, Mildly irritating to skin.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed:

Treat symptomatically

SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing Media:

Suitable Extinguishing Media: Water spray, foam, dry chemical or carbon dioxide (CO₂).
Inappropriate Extinguishing Media : Straight streams of water

5.2 Special hazards arising from the substance or mixture:

Non- flammable mixtures. Elevated temperatures can lead to the formation of irritating vapors.

5.3 Special Protective Equipment and Precautions for Fire-Fighters:

Revision Number: 0	Product Name: PT Maxnitron Lithium Grease EP 2, EP 3
Revision Date: 07-Apr-2020_IS	

Fire fighters should use self-contained breathing apparatus (SCBA) to fight fires. Use water spray to cool fire exposed surfaces and to protect personnel.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Evacuate area. Avoid contact with spilled material. Half-face or full-face respirator with filter for organic vapor.

6.2 Environmental Precautions:

Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and Materials for Containment and Cleaning Up:

Stop leak if without risk. Move containers from spill area. Absorb with an inert dry material (e.g. sand). And place in waste disposal container.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

Avoid breathing vapor or mist.
Avoid contact with skin and eyes
Wear suitable gloves, coveralls, apron and boots.
Use only with adequate ventilation.
Use non-sparking tools.
Prevent spills and leaks to avoid slipping hazards.

7.2 Conditions for Safe Storage, Including Any Incompatibilities:

Keep containers closed when not in use and check regularly for leaks. Keep in the original container protected from direct sunlight in a dry, cool and well ventilated areas. Store away from incompatible materials. Avoid excessive long-term storage temperatures to prolong shelf life. Maximum storage temperature: 60C

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters:

Distillates (Petroleum), Solvent-	ACGIH TLV-TWA	5 mg/m ³
Dewaxed Heavy Paraffinic 64742-65-0	ACGIH TLV-TWA	5 mg/m ³
	ACGIH TLV-TWA	5 mg/m ³

8.2 Appropriate Engineering Controls:

Revision Number:	0	Product Name:	PT Maxnitron Lithium Grease EP 2, EP 3
Revision Date:	07-Apr-2020_IS		

Ventilation may be used to control or reduce airborne concentrations.

8.3 Personal Protective Equipment:

Eye & Face Protection:

Goggle with face shields are recommended.

Skin & Body Protection:

Wear gloves made from nitrile rubber., Chemical / oil resistant clothing.

Respiratory Protection:

Wear organic vapor respirator.

8.4 Work / Hygienic Practices:

When using do not eat drink or smoke. Wash hand prior to eating, drinking, smoking or using the toilet. Wash contaminated clothing and other protective equipment before reusing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance & Colour:	Smooth Yellow (Semi Solid)
Odour:	Characteristic
Odour Threshold:	No Data Available
pH:	Not Applicable
Melting Point/Freezing Point:	Not Applicable
Initial Boiling Point & Boiling Range:	No Data Available
Flash Point:	No Data Available
Evaporation Rate:	No Data Available
Flammability (Solid, Gas):	No Data Available
Upper/Lower Flammability or Explosive Limits:	No Data Available
Vapour Pressure:	No Data Available
Vapour Density:	No Data Available
Relative Density:	No Data Available
Water Solubility:	Insoluble
Partition Coefficient: n-octanol/Water Log Pow:	No Data Available
Auto-Ignition Temperature:	No Data Available
Decomposition Temperature:	No Data Available
Viscosity:	Not Applicable

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:	No Data Available
10.2 Chemical Stability:	Stable under recommended storage conditions.
10.3 Possibility of Hazardous Reactions:	No Polymerization
10.4 Conditions to Avoid:	Excessive heat and sources of ignition.
10.5 Incompatible Materials:	No Data Available

Revision Number:	0	Product Name:	PT Maxnitron Lithium Grease EP 2, EP 3
Revision Date:	07-Apr-2020_IS		

10.6 Hazardous Decomposition Products: Does not decompose at ambient temperatures. If high temperature, material will decompose to Aldehydes, sulfur oxides and oxide of carbon

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on the Likely Routes of Exposure:

Inhalation: Prolonged breathing of vapors can cause headache, dizziness, nausea, respiratory irritation or chemical pneumonitis

Skin Contact: Slightly irritating.

Eye Contact: Slightly irritating.

Ingestion: Can cause stomach-ache and vomiting.

11.2 Symptoms Related to the Physical, Chemical and Toxicological Characteristics:

Main hazard, if ingested, is aspiration into the lungs and subsequent pneumonitis. Heating can generate vapors that may cause respiratory irritation, nausea and headaches. Inhalation hazard at room temperature is unlikely due to the low volatility of this product.

11.3 Delayed and Immediate Effects and Also Chronic Effects from Short and Long Term Exposure:

Immediate Effects: May cause respiratory irritation, headache, nausea. Mildly irritating to skin and eyes.

Chronic Effects : Prolonged and repeated contact with skin can cause deflating and drying of the skin resulting in skin irritation and dermatitis.

11.4 Numerical Measures of Toxicity:

Components	Acute Toxicity
Distillates (Petroleum), Solvent-Dewaxed Heavy	LD50 (Oral Rat): > 5000 mg/kg
Paraffinic	LD50 (Dermal Rabbit): > 5000 mg/kg
	LC 50 (Inhalation Rat): > 2.4 mg/l

Classification of Health Hazards

Acute Oral Toxicity Estimate:	Not Classified
Acute Dermal Toxicity Estimate:	Not Classified
Acute Inhalation Toxicity Estimate:	Not Classified
Skin Corrosion / Irritation:	Category 3
Serious Eye Damage / Eye Irritation:	Category 2B
Respiratory or Skin Sensitization:	Not Sensitize
Germ Cell Mutagenicity:	Not Classified
Carcinogenicity:	Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC)
Reproductive Toxicity:	No Data Available
Specific Target Organ Toxicity - Single Exposure:	No Data Available

Revision Number: 0	Product Name: PT Maxnitron Lithium Grease EP 2, EP 3
Revision Date: 07-Apr-2020_IS	

Specific Target Organ Toxicity - Repeated Exposure: No Data Available
Aspiration Hazard: No Data Available

SECTION 12: ECOLOGICAL INFORMATION

12.1 Eco-Toxicity:

Components	Result
Distillates (Petroleum), Solvent-Dewaxed Heavy Paraffinic	LC50 Fish (Salmo Gairdneri) > 1000 mg/l (96 h) EC50 Crustacea (Daphnia Magna) > 1000 mg/l (48 h) EC50 Algae (Scenedesmus Subspicatus) > 1000 mg/l (96 h) NOEC Fish (Pimephales promelas) > 5000 mg/l (7 days) NOEC Crustacea (Ceriodaphnia sp.) 552 mg/l (7 days)

Acute Hazards to the Aquatic Environment Estimate: Not Classified

Long-Term Hazards to the Aquatic Environment Estimate: Not Classified

12.2 Persistence and Degradability: No Data Available

12.3 Bio Accumulative Potential: No Data Available

12.4 Mobility in Soil: Move under natural forces to the groundwater.

12.5 Other Adverse Effects: Long term effect to the aquatic environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods: Disposal as an industrial waste in a manner acceptable to good waste management practice and in compliance with applicable local, state and federal regulations.

13.2 Contaminated Packaging: Do not attempt to refill or clean containers since residue is difficult to remove. All containers should be disposed of in accordance with governmental regulations.

SECTION 14: TRANSPORT INFORMATION

14.1 UN Number: No Data Available

14.2 UN Proper Shipping Name: No Data Available

14.3 Transport Hazard Classes: No Regulated

14.4 Packaging Group: No Data Available

14.5 Environmental Hazards: No Data Available

14.6 Transport in Bulk: No Data Available

14.7 Special Precautions for User: No Data Available

Revision Number: 0	Product Name: PT Maxnitron Lithium Grease EP 2, EP 3
Revision Date: 07-Apr-2020_IS	

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture:

Global Inventories:

Component	USA (TSCA)	EU (EINECS)	AUS (AICS)	JAP (ENCS)	KOR (ELCI)	CHN (IECSC)	PHLP (PICCS)	CAN (DSL/ NDSL)	NZ (NZIOC)
Distillates (Petroleum), Solvent- Dewaxed Heavy Paraffinic	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

15.2 Chemical Safety Assessment: No Data Available

SECTION 16: OTHER INFORMATION

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

Revision Number: 0	Product Name: PT Maxnitron Lithium Grease EP 2, EP 3
Revision Date: 07-Apr-2020_IS	