



ATLANTIC GREASE & LUBRICANTS MANUFACTURING L.L.C.

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MATERIAL SAFETY DATA SHEET

(NON-HAZARDOUS/NON-DG)

SECTION -1 -- PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name --- ATLANTIC LITHIUM MP GREASE EP- 3
Company Identification --- Atlantic Grease & Lubricants Manufacturing FZC.
P.O.Box – 41583,
Plot Nos. 2g-11&12 Hamriyah Free Zone Sharjah – U.A.E.
Phone Number --- +971 6 7487554, +971 6 5264688
Fax Number --- +971 6 7481805, +971 6 5264699
E-Mail Address ----- info@atlanticlubes.com
Chemical Family --- Petroleum Lubricating Grease

SECTION -2 COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Approximate % Composition	Exposure Limit
Paraffinic Base oil	64741-88-4	75 to 85	5 mg/m3 Mist
Additives	proprietary	1 to 3	5 mg/m3 Mist
Lithium hydroxide	1310-66-3	1.5 – 5.0	5 mg/m3 Mist

SECTION -3 HAZARDS INGREDIENTS / IDENTITY INFORMATION

HAZARDS OVERVIEW

HEALTH HAZARDS DATA

Eye : - Contact with eyes may cause minimal irritation, but practically non – irritating.

Skin Contact: - Avoid skin contact.

This product is slightly irritating. Repeated or prolonged contact with the skin could cause redness, itching, inflammation or cracking .symptoms may include discolouration, swelling pain or a feeling of heat. Secondary infection. Avoid prolonged and repeated skin contact with used Diesel oils. See Section 11 - Toxicological Information.

Inhalation: - Low risk at ambient temperature .prolonged breathing of vapors cans headache, dizziness, nausea, respiratory irritation or chemical pneumonitis.

Ingestion: - Low toxicity. If less than one ounce is ingested, material may pass through the system without harm. On ingestion of large quantities slight GI discomfort, diarrhea and headaches may occur.

Medical Conditions Aggravated by Exposure: -

Pre –existing dermatitis may be aggravated.

SECTION 4 FIRST AID INFORMATION

Eye Contact: Immediately flush eyes with large amounts of water and continue flushing until irritation Subsides. If material is hot, treat for thermal burns and seek immediate medical attention.

Skin Contact: No treatment is necessary under ordinary circumstances. Remove contaminated clothing. Wash contaminated area thoroughly with soap and water. If redness or irritation occurs and persists, seek medical attention. If material is hot, submerge injured area in cold water. If victim is severely burned, remove to a hospital immediately.

Inhalation: This material has a low vapor pressure and is not expected to present an inhalation exposure at ambient conditions.

Ingestion: No treatment is necessary under ordinary circumstances. Do not induce vomiting. If victim Exhibits signs of lung aspiration such as coughing or choking, seek immediate medical assistance.

Notes to Physician: Incase of skin injection, prompt debridement of the wound may be necessary to minimize necrosis and tissue loss.



SECTION 5 FIRES AND EXPLOSION HAZARDS DATA

Fire Classification

OSHA classification (29 CFR 1910.1200) .Not classified by OSHA as flammable or combustible.

NFPA Ratings: - Health: 0 Flammability: 1 Reactivity: 0

Flammable Properties

Flash Point: N/A

Flammable Limits in Air

Upper Percent: Not Applicable

Lower Percent: Not Applicable

Auto ignition Temperature: No data available

NFPA Classification: Class III-B combustible liquid

Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide to extinguish flame.

Protection of Fire Fighters:-

Fire Fighting Instructions: This material will 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 contaminated breathing apparatus.

Combustion Products: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids and gases including Carbon monoxide, carbon dioxide and unidentified organic compounds will be evolved when this materials undergoes combustion. Combustion may from oxides of: Calcium, Sulphur, Zinc, Boron, Molybdenum, and Nitrogen.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personnel Safeguards: Consult Health Effect Information in Section 2, Personal Protection Information in Section 7, Fire and Explosion Information in Section 4, and Stability and Reactivity Information in Section 9.

Regulatory Notifications: Notify appropriate authorities of spill.

Containment and Clean up: Contain spill immediately. Do not allow spill to enter sewers or Watercourses. Absorb with appropriate inert material such as sand, clay, etc. Large spills may be picked up using vacuum pumps, shovels, buckets, or other means and placed in drums or other Suitable containers.

SECTION 7 HANDLING AND STORAGE INFORMATION

Handling: Fire extinguishers should be kept readily available. See NFPA 30 and OSHA 1910.106-- Flammable and Combustible Liquids.

Storage: Do not transfer to unmarked containers. Store in closed containers away from heat, sparks, open Flame or oxidizing materials.

Empty Container Warnings: - Containers 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 vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind.or expose such container to heat, flame, sparks, static electricity or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely trained, properly closed, and promptly returned to a drum reconditioned or disposed of properly.

Drums: Empty drums should be completely drained, properly bunged and promptly returned to a drum Reconditioned, or properly disposed. Empty containers retain product residue and can be Dangerous.

Plastic: Empty container may retain product residues.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION INFORMATION

Exposure Limits and Guidelines

This product does not contain any components with OSHA or ACGIH exposure limits.

Personal Protective Equipment:-

Eye/Face Protection: Eye protection is not required under conditions of normal use. If material is handled such that it could be splashed into eyes, wear plastic face shield or splash-proof safety goggles.



Skin Protection: No skin protection is required for single, short duration exposures. For prolonged or repeated exposures, use impervious clothing (boots, gloves, aprons, etc.) over parts of the body subject to exposure. If handling hot material, use insulated protective clothing (boots, gloves, aprons, etc.). Launder soiled clothes. Properly dispose of contaminated leather articles including shoes, which cannot be decontaminated.

Respiratory Protection: Respiratory protection is not required under conditions of normal use. If vapor or mist is generated when the material is heated or handled, use an organic vapor respirator with a dust and mist filter. All respirators must be NIOSH certified. Do not use compressed oxygen in hydrocarbon atmospheres.

Personal Hygiene: Consumption of food and beverage should be avoided in work areas where hydrocarbons are present. Always wash hands and face with soap and water before eating, drinking, or smoking.

Engineering Controls / Work Practices:-

Ventilation: If vapor or mist is generated when the material is heated or handled, adequate ventilation in accordance with good engineering practice must be provided to maintain concentrations below the specified exposure or flammable limits.

Other: The OSHA permissible exposure limit (PEL) and ACGIH threshold limit value (TLV) for oil mist is 5 mg/m³. Chronic exposures below 5 mg/m³ are without significant health risks. The ACGIH short-term exposure limit (STEL) for oil mist is 10 mg/m³.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Semi solid material
Color	: Yellow
Vapor Pressure	: < 0.01 mm Hg @ 100°C.
Physical State	: Semi Solid
Vapor Density (air= 1)	: > 1
Penetration Worked @ 25 °C:	220 - 250
Melting Point	: 190 deg C
Specific Gravity@15 °C	: N A
Average Carbon Number	: C₁₅ to C₅₀
Viscosity @ 40 C	: N A
Solubility in Water	: Insoluble

SECTION 10 STABILITY AND REACTIVITY INFORMATION

Chemical Stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Conditions to Avoid: High heat and open flames.

Incompatible Materials to Avoid: May react with strong oxidizing agents, such as chlorates, nitrates

Hazardous Polymerization: Hazardous polymerization will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

Eye Irritation: The eye irritation hazard is based on evaluation of data for similar materials or product components.

Skin Irritation: The skin irritation hazard is based on evaluation of data for similar materials or product components.

Skin sensitization: No product toxicology data available.

Acute Dermal Toxicity: The acute dermal toxicity hazard is based on evaluation of data for similar materials or product components.

Acute Oral Toxicity: The acute oral toxicity hazard is based on evaluation of data for similar materials or product components.

Inhalation Toxicity: The inhalation toxicity is based on evaluation of data for similar materials or product components.



Additional Toxicology Information:

This product contains base oils which may be refined by various processes including of severe solvent extraction hydrocracking, hydrotreating. None of the oils requires a cancer warning under the OSHA hazard communication standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) .Annual reports nor have they been classified by the International Agency for Research on Cancer (IARC) as; Carcinogenic to human (Group 1), probably Carcinogenic to human (Group 2A) or possibly Carcinogenic to human (Group 2B).

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity: The toxicity of this material to aquatic organisms has not been evaluated .Consequently; this material should be kept out of sewage and drainage systems and all bodies of water.

Environmental Fate: This material is not expected to be readily biodegradable.

SECTION 13 DISPOSAL INFORMATION

Regulatory Information: All disposals must comply with federal, state, and local regulations. The material, if spilled or discarded, may be a regulated waste. Refer to state and local regulations. Caution! If regulated solvents are used to clean up spilled material, the resulting waste mixture may be regulated. Department of Transportation (DOT) regulations may apply for transporting this material when spilled.

Waste Disposal Methods: Waste material may be land filled or incinerated at an approved facility. Materials should be recycled if possible.

SECTION 14 TRANSPORTATION INFORMATION

IATA approved

Department of transportation Classification: Not hazardous by US DOT Regulations.

Dot Proper Shipping Name : Not Applicable

Other Requirements : Not Applicable

SECTION 15 REGULATORY INFORMATION

Regulatory Lists Searched: The components listed in Section 2 of this MSDS were compared to substances that appear on the following regulatory lists. Each list is numerically identified. See Regulatory Search Results below.

Health & Safety: 10 - IARC carcinogen, 11 - NTP carcinogen, 12 - OSHA carcinogen, 15 - ACGIH TLV, 16 - OSHA PEL, 17 - NIOSH exposure limit, 20 - US DOT Appendix A, Hazardous substances, 22 - FDA 21 CFR Total food additives, 23 - NFPA 49 or 325

Environmental: 30 - CAA 1990 Hazardous air pollutants, 31 - CAA Ozone depleters, 33 - CAA HON rule, 34 - CAA Toxic substance for accidental release prevention, 35 - CAA Volatile organic compounds (VOC's) in SOCOMI, 41 - CERCLA / SARA Section 302 extremely hazardous substances, 42 - CERCLA /SARA Section 313 emissions reporting, 43 - CWA Hazardous substances, 44 - CWA Priority pollutants, 45- CWA Toxic pollutants, 46 - EPA Proposed test rule for hazardous air pollutants, 47 - RCRA Basis for

Listing - Appendix VII, 48 - RCRA waste, 49 - SDWA - (S) MCLs

SARA Section 313:

Chemical CAS Number Percent in Product : Zinc Components Mixture < 13

IARC : No information available

SARA 311 / 312 Categories:

- 1. Immediate (Acute) Health Effects : No
- 2. Delayed (Chronic) Health Effects : No
- 3. Fire Hazard : No
- 4. Sudden Release or Pressure Hazard : No
- 5. Reactivity Hazard : No



Chemical Inventories:

Canadian WHMIS Classification : Not a controlled substance under WHMIS

European Union Classification

Hazard Symbols : No classification recommended

Risk Phrases : No classification recommended

Safety Phrases : No classification recommended

WHMIS Classification : This product is not considered a controlled Product according to the criteria of the Canadian Controlled products Regulations

SECTION 16 OTHER INFORMATION

Hazards Material Identification System (HMIS)/NFPA Fire Hazard Symbol

Descriptions	HMIS	NFPA
Health	1	0
Flammability	1	1
Reactivity	0	0

0 - Insignificant, 1 - Slight, 2 - Moderate, 3 - High, 4 - Extreme

PPE - Personal Protection Equipments Index Recommendation, - Chronic Effect Indicator. These values are obtained using the guidelines or published evaluation prepared by the National Fire Protection (NFPA) or the National Paint Coating Association (for HMIS ratings)

Health and Environmental Label Language

Warning: - Continuous contact with used gasoline engine oils has caused skin cancer in animal tests.

Attention:-Prolonged or repeated skin contact may cause oil acne or dermatitis. Repeated exposure to oil mist in excess of the OSHA limit (5mg/m3) can result in accumulation of oil droplets in pulmonary tissue. Precautionary Measures: Avoid prolonged or repeated contact with eyes, skin and clothing. Avoid generation and inhalation of oil mists.

First Aid: Skin Contact: Wash skin with soap and water. Launder soiled clothes and discard oil soaked

Shoes: - If irritation persists seek medical attention. Eye Contact: Flush with water. If irritation persists seek medical attention. Ingestion: Do not induce vomiting. In general, no treatment is necessary unless large quantities of product are ingested. If discomfort persists seek medical assistance.

Instructions in Case of Fire or Spill: In case of fire, use water fog, foam, dry chemical or carbon dioxide. Water spray may be ineffective, but can be used to cool containers. Do not use a direct stream of water. Material will float and can be reignited on surface of water.

Spill or Leak: - Dike and contain spill. Do not use water; soak up with absorbent material such as clay, sand or other suitable material. Place in non-leaking container and seal tightly for proper disposal.

Contains: highly refined petroleum distillate, mixture; zinc compounds, mixture; polymer Additives, mixture.

Keep Out Of Reach of Children :- (If intended for retail also)

Revision Statement: This revision corrects the product name .Other changes have been made throughout this Material Safety Data Sheet. Please read the entire documents.

Disclaimer of Warranty: - The above information contained herein is based upon data and information available to us, and reflects our best professional judgment. This product may be formulated in part with components purchased from other companies. In many instances, especially when proprietary or trade secret materials are used, ATLANTIC Products must rely upon the hazard evaluation of such components submitted by that product’s manufacturer or importer. No warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of such data or information, the results to be obtained from the use thereof, or that any such use do not infringe any patent. Since the information contained herein may be applied under conditions of use beyond our control and with which we may be unfamiliar, we do not assume responsibility for the results of such application. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

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MATERIAL SAFETY DATA SHEET

(NON-HAZARDOUS/NON-DG)

1. PRODUCT AND COMPANY IDENTIFICATION

Product trade name	ATLANTIC LITHIUM BASE GREASE MP-2
Company Identification	Atlantic Grease and Lubricants Manufacturing LLC – P.O Box 9057, Ajman, UAE.
Phone	+971 (06) 748-1804
Fax	+971 (06) 748-1805
Email	info@atlanticlubes.com
Chemical family	Petroleum Lubricating Oils

2. COMPOSITION OF INGREDIENTS

Components	CAS Number	Approximate percentage composition	Exposure Limit
Paraffinic Base Oil	64741-88-4	75 to 85	5mg/m ³ Mist
Performance Additives	Mixture	10 to 20	5mg/m ³ Mist
Alkaline Agent	Mixture	1.5 to 5.0	

3. HAZARDS INGREDIENTS AND IDENTITY INFORMATION

Eye	Contact with eyes may cause minimal irritation, but practically non-irritating.
Skin contact	Avoid skin contact. This product is slightly irritating. Repeated or prolonged contact with the skin could cause redness, itching, inflammation or cracking. Symptoms may include discolouration, swelling, pain or a feeling of heat. Secondary infection. Avoid prolonged and/or repeated skin contact with used diesel oils. See section 11 – Toxicological information
Inhalation	Low risk at ambient temperature. Prolonged breathing of vapour can cause headache, dizziness, nausea, respiratory irritation or chemical pneumonitis.
Ingestion	Low toxicity. If less than one ounce is ingested, material may pass through the system without harm. On ingestion of large quantities, slight GI discomfort, diarrhoea and headaches may occur.
Medical conditions aggravated by exposure	Pre-existing dermatitis may be aggravated.



4. FIRST AID INFORMATION

Eye contact	Immediately flush eyes with large amounts of water and continue flushing until irritation subsides. If material is hot, treat for thermal burns and seek immediate medical attention.
Skin contact	No treatment is necessary under ordinary circumstances. Remove contaminated clothing. Wash contaminated area thoroughly with soap and water. If redness or irritation occurs and persists, seek medical attention. If material is hot, submerge injured area in cold water. If victim is severely burned, move to the hospital immediately.
Inhalation	This material has a low vapour pressure and is not expected to present an inhalation exposure at ambient conditions.
Ingestion	No treatment is necessary under ordinary circumstances. Do not induce vomiting. If victim exhibits signs of lung aspiration such as coughing or choking, seek immediate medical assistance.
Notes to physician	In case of skin injection, prompt debridement of the wound may be necessary to minimize necrosis and tissue loss.

5. FIRES AND EXPLOSION HAZARDS DATA

Fire classification	OSHA classification (29 CFR 1910.1200). Not classified by OSHA as flammable or combustible.		
NFPA Rating	Health: 0	Flammability: 1	Reactivity: 0
Flash point	200°C Min Test Method: ASTM D-92 (C.O.C)		
Flammable limits	Upper percent: N/A	Lower percent: N/A	
Auto ignition temperature	No data available		
NFPA classification	Class III-B combustible liquid		
Extinguishing media	Use water fog, foam, dry chemical or carbon dioxide to extinguish flame.		

PROTECTION OF FIRE FIGHTERS

Fire Fighting Instructions	This material will 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-contaminated breathing apparatus.
Combustion products	Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids and gases including Carbon monoxide, carbon dioxide and unidentified organic compounds will be evolved when this materials undergoes combustion. Combustion may from oxides of: Calcium, Sulphur, Zinc, Boron, Molybdenum, and Nitrogen.



6. ACCIDENTAL RELEASE MEASURES

Personal safeguards	Consult Health Effect Information in Section 2, Personal Protection Information in Section 7, Fire and Explosion Information in Section 4, and Stability and Reactivity Information in Section 9.
Regulatory notifications	Notify appropriate authorities of spill.
Containment and clean up	Contain spill immediately. Do not allow spill to enter sewers or watercourses. Absorb with appropriate inert material such as sand, clay, etc. Large spills may be picked up using vacuum pumps, shovels, buckets, or other means and placed in drums or other suitable containers.

7. HANDLING AND STORAGE INFORMATION

Handling	Fire extinguishers should be kept readily available. See NFPA 30 and OSHA 1910.106--Flammable and Combustible Liquids.
Storage	Do not transfer to unmarked containers. Store in closed containers away from heat, sparks, open flame or oxidizing materials.
Empty container warnings	Containers 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 vapour) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such container 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 drum reconditioned or disposed of properly.
Drums	Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioned, or properly disposed. Empty containers retain product residue and can be dangerous.
Plastic	Empty container may retain product residues.



8. EXPOSURE CONTROLS AND PERSONAL PROTECTION INFORMATION

Exposure limit and guidelines	This product does not contain any components with OSHA or ACGIH exposure limits.
Eye/face protection	Eye protection is not required under conditions of normal use. If material is handled such that it could be splashed into eyes, wear plastic face shield or splash-proof safety goggles.
Skin protection	No skin protection is required for single, short duration exposures. For prolonged or repeated exposures, use impervious clothing (boots, gloves, aprons, etc.) over parts of the body subject to exposure. If handling hot material, use insulated protective clothing (boots, gloves, aprons, etc.). Launder soiled clothes. Properly dispose of contaminated leather articles including shoes, which cannot be decontaminated.
Respiratory protection	Respiratory protection is not required under conditions of normal use. If vapour or mist is generated when the material is heated or handled, use an organic vapour respirator with a dust and mist filter. All respirators must be NIOSH certified. Do not use compressed oxygen in hydrocarbon atmospheres.
Personal hygiene	Consumption of food and beverage should be avoided in work areas where hydrocarbons are present. Always wash hands and face with soap and water before eating, drinking, or smoking.
Ventilation	If vapour or mist is generated when the material is heated or handled, adequate ventilation in accordance with good engineering practice must be provided to maintain concentrations below the specified exposure or flammable limits.
Other	The OSHA permissible exposure limit (PEL) and ACGIH threshold limit value (TLV) for oil mist is 5mg/m ³ . Chronic exposures below 5mg/m ³ are without significant health risks. The ACGIH short-term exposure limit (STEL) for oil mist is 10mg/m ³ .



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Semi Solid Material
Colour	Amber
Vapour pressure	< 0.01 mm Hg @ 100°C
Physical state	Semi Solid
Vapour density (air = 1)	> 1
Penetration Worked @ 25 °C	265 to 295
Dropping point	190 °C
Specific Gravity @15°C	0.88 to 0.90 g/ml
Average Carbon Number	C ₁₅ to C ₅₀
Viscosity @ 40°C	NA
Solubility in water	Insoluble

10. STABILITY AND REACTIVITY INFORMATION

Chemical stability	This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Conditions to avoid	High heat and open flames.
Incompatible materials to avoid	May react with strong oxidizing agents, such as chlorates, nitrates
Hazardous polymerisation	Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Eye irritation	The eye irritation hazard is based on evaluation of data for similar materials or product components.
Skin irritation	The skin irritation hazard is based on evaluation of data for similar materials or product components.
Skin sensitization	No product toxicology data available.
Acute dermal toxicity	The acute dermal toxicity hazard is based on evaluation of data for similar materials or product components.
Acute oral toxicity	The acute oral toxicity hazard is based on evaluation of data for similar materials or product components.
Inhalation toxicity	The inhalation toxicity is based on evaluation of data for similar materials or product components.



ADDITIONAL TOXICOLOGY INFORMATION:

This product contains base oils which may be refined by various processes including of severe solvent extraction hydrocracking, hydrotreating. None of the oils requires a cancer warning under the OSHA hazard communication standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) .Annual reports nor have they been classified by the International Agency for Research on Cancer (IARC) as Carcinogenic to human (Group 1), probably Carcinogenic to human (Group 2A) or possibly Carcinogenic to human (Group 2B).

12. ECOLOGICAL INFORMATION

Ecotoxicity	The toxicity of this material to aquatic organisms has not been evaluated .Consequently; this material should be kept out of sewage and drainage systems and all bodies of water.
Environmental fate	This material is not expected to be readily biodegradable.

13. DISPOSAL INFORMATION

Regulatory information	All disposals must comply with federal, state, and local regulations. The material, if spilled or discarded, may be a regulated waste. Refer to state and local regulations. Caution! If regulated solvents are used to clean up spilled material, the resulting waste mixture may be regulated. Department of Transportation (DOT) regulations may apply for transporting this material when spilled.
Waste disposal method	Waste material may be land filled or incinerated at an approved facility. Materials should be recycled if possible.

14. TRANSPORTATION INFORMATION

Department of transportation classification	Not hazardous U.S DOT regulations.
DOT proper shipping name	Not applicable
Other requirements	Not applicable



15. REGULATORY INFORMATION

Regulatory lists searched	The components listed in Section 2 of this MSDS were compared to substances that appear on the following regulatory lists. Each list is numerically identified. See Regulatory Search Results below.
Health and safety	10 - IARC carcinogen, 11 - NTP carcinogen, 12 - OSHA carcinogen, 15 - ACGIH TLV, 16 - OSHA PEL, 17 - NIOSH exposure limit, 20 - US DOT Appendix A, Hazardous substances, 22 - FDA21 CFR Total food additives, 23 - NFPA 49 or 325
Environmental	30 - CAA 1990 Hazardous air pollutants, 31 - CAA Ozone depletors, 33 - CAA HON rule, 34 - CAA Toxic substance for accidental release prevention, 35 - CAA Volatile organic compounds(VOC's) in SOCM, 41 - CERCLA / SARA Section 302 extremely hazardous substances, 42 - CERCLA /SARA Section 313 emissions reporting, 43 - CWA Hazardous substances, 44 - CWA Priority pollutants, 45- CWA Toxic pollutants, 46 - EPA Proposed test rule for hazardous air pollutants, 47 - RCRA Basis for Listing - Appendix VII, 48 - RCRA waste, 49 - SDWA - (S) MCLs

SARA 313

Chemical CAS number percent in product	Zinc Components Mixture < 13
IARC	No information available

SARA 311 / 312 CATEGORIES

Immediate (acute) health effects	No.
Delayed (chronic) health effects	No.
Fire hazard	No.
Sudden release or pressure hazard	No.
Reactivity hazard	No.

CHEMICAL INVENTORIES

Canadian WHMIS classification	Not a controlled substance under WHMIS.
Hazard symbols	No classification recommended.
Risk phrases	No classification recommended.
Safety phrases	No classification recommended.
WHMIS Classification	This product is not considered a controlled product according to the criteria of the Canadian Controlled products regulations.



16. OTHER INFORMATION

HAZARDS MATERIAL IDENTIFICATION SYSTEM (HMIS)/NFPA FIRE HAZARD SYMBOL

Description	HMIS	NFPA
Health	1	0
Flammability	1	1
Reactivity	0	0

Rating	Insignificant - 0	Slight - 1	Moderate - 2	High - 3	Extreme 4
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PERSONAL PROTECTION EQUIPMENT INDEX

Chronic Effect Indicator. These values are obtained using the guidelines or published evaluation prepared by the National Fire Protection (NFPA) or the National Paint Coating Association (for HMIS ratings).

HEALTH AND ENVIRONMENTAL LABEL LANGUAGE

Warning	Continuous contact with used gasoline engine oils has caused skin cancer in animal tests.
Attention	Prolonged or repeated skin contact may cause oil acne or dermatitis. Repeated exposure to oil mist in excess of the OSHA limit (5mg/m ³) can result in accumulation of oil droplets in pulmonary tissue. Precautionary Measures: Avoid prolonged or repeated contact with eyes, skin and clothing. Avoid generation and inhalation of oil mists.
First aid	Wash skin with soap and water. Launder soiled clothes and discard oil soaked.
Spill or leak	Dike and contain spill. Do not use water; soak up with absorbent material such as clay, sand or other suitable material. Place in non-leaking container and seal tightly for proper disposal. Contains: highly refined petroleum distillate, mixture; zinc compounds, mixture; polymer additives, mixture.
OHSAS	If irritation persists seek medical attention. Eye Contact: Flush with water. If irritation persists seek medical attention. Ingestion: Do not induce vomiting. In general, no treatment is necessary unless large quantities of product are ingested. If discomfort persists seek medical assistance. Instructions in Case of Fire or Spill: In case of fire, use water fog, foam, dry chemical or carbon dioxide. Water spray may be ineffective, but can be used to cool containers. Do not use a direct stream of water. Material will float and can be reignited on surface of water.



KEEP OUT OF REACH OF CHILDREN

REVISION STATEMENT

This revision corrects the product name .Other changes have been made throughout this Material Safety Data Sheet. Please read the entire documents.

DISCLAIMER OF WARRANTY

The above information contained herein is based upon data and information available to us, and reflects our best professional judgment. This product may be formulated in part with components purchased from other companies. In many instances, especially when proprietary or trade secret materials are used, ATLANTIC Products must rely upon the hazard evaluation of such components submitted by that product's manufacturer or importer. No warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of such data or information, the results to be obtained from the use thereof, or that any such use do not infringe any patent. Since the information contained herein may be applied under conditions of use beyond our control and with which we may be unfamiliar, we do not ssumeresponsibility for the results of such application. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.



MATERIAL SAFETY DATA SHEET

(NON-HAZARDOUS/NON-DG)

1. PRODUCT AND COMPANY IDENTIFICATION

Product trade name	ATLANTIC LITHIUM BASE GREASE MP-3
Company Identification	Atlantic Grease and Lubricants Manufacturing LLC – P.O Box 9057, Ajman, UAE.
Phone	+971 (06) 748-1804
Fax	+971 (06) 748-1805
Email	info@atlanticlubes.com
Chemical family	Petroleum Lubricating Oils

2. COMPOSITION OF INGREDIENTS

Components	CAS Number	Approximate percentage composition	Exposure Limit
Paraffinic Base Oil	64741-88-4	75 to 85	5mg/m ³ Mist
Performance Additives	Mixture	10 to 20	5mg/m ³ Mist
Alkaline Agent	Mixture	1.5 to 5.0	

3. HAZARDS INGREDIENTS AND IDENTITY INFORMATION

Eye	Contact with eyes may cause minimal irritation, but practically non-irritating.
Skin contact	Avoid skin contact. This product is slightly irritating. Repeated or prolonged contact with the skin could cause redness, itching, inflammation or cracking. Symptoms may include discolouration, swelling, pain or a feeling of heat. Secondary infection. Avoid prolonged and/or repeated skin contact with used diesel oils. See section 11 – Toxicological information
Inhalation	Low risk at ambient temperature. Prolonged breathing of vapour can cause headache, dizziness, nausea, respiratory irritation or chemical pneumonitis.
Ingestion	Low toxicity. If less than one ounce is ingested, material may pass through the system without harm. On ingestion of large quantities, slight GI discomfort, diarrhoea and headaches may occur.
Medical conditions aggravated by exposure	Pre-existing dermatitis may be aggravated.



4. FIRST AID INFORMATION

Eye contact	Immediately flush eyes with large amounts of water and continue flushing until irritation subsides. If material is hot, treat for thermal burns and seek immediate medical attention.
Skin contact	No treatment is necessary under ordinary circumstances. Remove contaminated clothing. Wash contaminated area thoroughly with soap and water. If redness or irritation occurs and persists, seek medical attention. If material is hot, submerge injured area in cold water. If victim is severely burned, move to the hospital immediately.
Inhalation	This material has a low vapour pressure and is not expected to present an inhalation exposure at ambient conditions.
Ingestion	No treatment is necessary under ordinary circumstances. Do not induce vomiting. If victim exhibits signs of lung aspiration such as coughing or choking, seek immediate medical assistance.
Notes to physician	In case of skin injection, prompt debridement of the wound may be necessary to minimize necrosis and tissue loss.

5. FIRES AND EXPLOSION HAZARDS DATA

Fire classification	OSHA classification (29 CFR 1910.1200). Not classified by OSHA as flammable or combustible.		
NFPA Rating	Health: 0	Flammability: 1	Reactivity: 0
Flash point	200°C Min Test Method: ASTM D-92 (C.O.C)		
Flammable limits	Upper percent: N/A	Lower percent: N/A	
Auto ignition temperature	No data available		
NFPA classification	Class III-B combustible liquid		
Extinguishing media	Use water fog, foam, dry chemical or carbon dioxide to extinguish flame.		

PROTECTION OF FIRE FIGHTERS

Fire Fighting Instructions	This material will 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-contaminated breathing apparatus.
Combustion products	Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids and gases including Carbon monoxide, carbon dioxide and unidentified organic compounds will be evolved when this materials undergoes combustion. Combustion may from oxides of: Calcium, Sulphur, Zinc, Boron, Molybdenum, and Nitrogen.



6. ACCIDENTAL RELEASE MEASURES

Personal safeguards	Consult Health Effect Information in Section 2, Personal Protection Information in Section 7, Fire and Explosion Information in Section 4, and Stability and Reactivity Information in Section 9.
Regulatory notifications	Notify appropriate authorities of spill.
Containment and clean up	Contain spill immediately. Do not allow spill to enter sewers or watercourses. Absorb with appropriate inert material such as sand, clay, etc. Large spills may be picked up using vacuum pumps, shovels, buckets, or other means and placed in drums or other suitable containers.

7. HANDLING AND STORAGE INFORMATION

Handling	Fire extinguishers should be kept readily available. See NFPA 30 and OSHA 1910.106--Flammable and Combustible Liquids.
Storage	Do not transfer to unmarked containers. Store in closed containers away from heat, sparks, open flame or oxidizing materials.
Empty container warnings	Containers 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 vapour) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such container 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 drum reconditioned or disposed of properly.
Drums	Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioned, or properly disposed. Empty containers retain product residue and can be dangerous.
Plastic	Empty container may retain product residues.



8. EXPOSURE CONTROLS AND PERSONAL PROTECTION INFORMATION

Exposure limit and guidelines	This product does not contain any components with OSHA or ACGIH exposure limits.
Eye/face protection	Eye protection is not required under conditions of normal use. If material is handled such that it could be splashed into eyes, wear plastic face shield or splash-proof safety goggles.
Skin protection	No skin protection is required for single, short duration exposures. For prolonged or repeated exposures, use impervious clothing (boots, gloves, aprons, etc.) over parts of the body subject to exposure. If handling hot material, use insulated protective clothing (boots, gloves, aprons, etc.). Launder soiled clothes. Properly dispose of contaminated leather articles including shoes, which cannot be decontaminated.
Respiratory protection	Respiratory protection is not required under conditions of normal use. If vapour or mist is generated when the material is heated or handled, use an organic vapour respirator with a dust and mist filter. All respirators must be NIOSH certified. Do not use compressed oxygen in hydrocarbon atmospheres.
Personal hygiene	Consumption of food and beverage should be avoided in work areas where hydrocarbons are present. Always wash hands and face with soap and water before eating, drinking, or smoking.
Ventilation	If vapour or mist is generated when the material is heated or handled, adequate ventilation in accordance with good engineering practice must be provided to maintain concentrations below the specified exposure or flammable limits.
Other	The OSHA permissible exposure limit (PEL) and ACGIH threshold limit value (TLV) for oil mist is 5mg/m ³ . Chronic exposures below 5mg/m ³ are without significant health risks. The ACGIH short-term exposure limit (STEL) for oil mist is 10mg/m ³ .



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Semi Solid Material
Colour	Amber
Vapour pressure	< 0.01 mm Hg @ 100°C
Physical state	Semi Solid
Vapour density (air = 1)	> 1
Penetration Worked @ 25 °C	220 to 250
Dropping point	190 °C
Specific Gravity @15°C	0.88 to 0.90 g/ml
Average Carbon Number	C ₁₅ to C ₅₀
Viscosity @ 40°C	NA
Solubility in water	Insoluble

10. STABILITY AND REACTIVITY INFORMATION

Chemical stability	This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Conditions to avoid	High heat and open flames.
Incompatible materials to avoid	May react with strong oxidizing agents, such as chlorates, nitrates
Hazardous polymerisation	Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Eye irritation	The eye irritation hazard is based on evaluation of data for similar materials or product components.
Skin irritation	The skin irritation hazard is based on evaluation of data for similar materials or product components.
Skin sensitization	No product toxicology data available.
Acute dermal toxicity	The acute dermal toxicity hazard is based on evaluation of data for similar materials or product components.
Acute oral toxicity	The acute oral toxicity hazard is based on evaluation of data for similar materials or product components.
Inhalation toxicity	The inhalation toxicity is based on evaluation of data for similar materials or product components.



ADDITIONAL TOXICOLOGY INFORMATION:

This product contains base oils which may be refined by various processes including of severe solvent extraction hydrocracking, hydrotreating. None of the oils requires a cancer warning under the OSHA hazard communication standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) .Annual reports nor have they been classified by the International Agency for Research on Cancer (IARC) as Carcinogenic to human (Group 1), probably Carcinogenic to human (Group 2A) or possibly Carcinogenic to human (Group 2B).

12. ECOLOGICAL INFORMATION

Ecotoxicity	The toxicity of this material to aquatic organisms has not been evaluated .Consequently; this material should be kept out of sewage and drainage systems and all bodies of water.
Environmental fate	This material is not expected to be readily biodegradable.

13. DISPOSAL INFORMATION

Regulatory information	All disposals must comply with federal, state, and local regulations. The material, if spilled or discarded, may be a regulated waste. Refer to state and local regulations. Caution! If regulated solvents are used to clean up spilled material, the resulting waste mixture may be regulated. Department of Transportation (DOT) regulations may apply for transporting this material when spilled.
Waste disposal method	Waste material may be land filled or incinerated at an approved facility. Materials should be recycled if possible.

14. TRANSPORTATION INFORMATION

Department of transportation classification	Not hazardous U.S DOT regulations.
DOT proper shipping name	Not applicable
Other requirements	Not applicable



15. REGULATORY INFORMATION

Regulatory lists searched	The components listed in Section 2 of this MSDS were compared to substances that appear on the following regulatory lists. Each list is numerically identified. See Regulatory Search Results below.
Health and safety	10 - IARC carcinogen, 11 - NTP carcinogen, 12 - OSHA carcinogen, 15 - ACGIH TLV, 16 - OSHA PEL, 17 - NIOSH exposure limit, 20 - US DOT Appendix A, Hazardous substances, 22 - FDA21 CFR Total food additives, 23 - NFPA 49 or 325
Environmental	30 - CAA 1990 Hazardous air pollutants, 31 - CAA Ozone depleters, 33 - CAA HON rule, 34 - CAA Toxic substance for accidental release prevention, 35 - CAA Volatile organic compounds(VOC's) in SOCM, 41 - CERCLA / SARA Section 302 extremely hazardous substances, 42 - CERCLA /SARA Section 313 emissions reporting, 43 - CWA Hazardous substances, 44 - CWA Priority pollutants, 45- CWA Toxic pollutants, 46 - EPA Proposed test rule for hazardous air pollutants, 47 - RCRA Basis for Listing - Appendix VII, 48 - RCRA waste, 49 - SDWA - (S) MCLs

SARA 313

Chemical CAS number percent in product	Zinc Components Mixture < 13
IARC	No information available

SARA 311 / 312 CATEGORIES

Immediate (acute) health effects	No.
Delayed (chronic) health effects	No.
Fire hazard	No.
Sudden release or pressure hazard	No.
Reactivity hazard	No.

CHEMICAL INVENTORIES

Canadian WHMIS classification	Not a controlled substance under WHMIS.
Hazard symbols	No classification recommended.
Risk phrases	No classification recommended.
Safety phrases	No classification recommended.
WHMIS Classification	This product is not considered a controlled product according to the criteria of the Canadian Controlled products regulations.



16. OTHER INFORMATION

HAZARDS MATERIAL IDENTIFICATION SYSTEM (HMIS)/NFPA FIRE HAZARD SYMBOL

Description	HMIS	NFPA
Health	1	0
Flammability	1	1
Reactivity	0	0

Rating	Insignificant - 0	Slight - 1	Moderate - 2	High - 3	Extreme 4
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PERSONAL PROTECTION EQUIPMENT INDEX

Chronic Effect Indicator. These values are obtained using the guidelines or published evaluation prepared by the National Fire Protection (NFPA) or the National Paint Coating Association (for HMIS ratings).

HEALTH AND ENVIRONMENTAL LABEL LANGUAGE

Warning	Continuous contact with used gasoline engine oils has caused skin cancer in animal tests.
Attention	Prolonged or repeated skin contact may cause oil acne or dermatitis. Repeated exposure to oil mist in excess of the OSHA limit (5mg/m ³) can result in accumulation of oil droplets in pulmonary tissue. Precautionary Measures: Avoid prolonged or repeated contact with eyes, skin and clothing. Avoid generation and inhalation of oil mists.
First aid	Wash skin with soap and water. Launder soiled clothes and discard oil soaked.
Spill or leak	Dike and contain spill. Do not use water; soak up with absorbent material such as clay, sand or other suitable material. Place in non-leaking container and seal tightly for proper disposal. Contains: highly refined petroleum distillate, mixture; zinc compounds, mixture; polymer additives, mixture.
OHSAS	If irritation persists seek medical attention. Eye Contact: Flush with water. If irritation persists seek medical attention. Ingestion: Do not induce vomiting. In general, no treatment is necessary unless large quantities of product are ingested. If discomfort persists seek medical assistance. Instructions in Case of Fire or Spill: In case of fire, use water fog, foam, dry chemical or carbon dioxide. Water spray may be ineffective, but can be used to cool containers. Do not use a direct stream of water. Material will float and can be reignited on surface of water.



KEEP OUT OF REACH OF CHILDREN

REVISION STATEMENT

This revision corrects the product name .Other changes have been made throughout this Material Safety Data Sheet. Please read the entire documents.

DISCLAIMER OF WARRANTY

The above information contained herein is based upon data and information available to us, and reflects our best professional judgment. This product may be formulated in part with components purchased from other companies. In many instances, especially when proprietary or trade secret materials are used, ATLANTIC Products must rely upon the hazard evaluation of such components submitted by that product's manufacturer or importer. No warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of such data or information, the results to be obtained from the use thereof, or that any such use do not infringe any patent. Since the information contained herein may be applied under conditions of use beyond our control and with which we may be unfamiliar, we do not ssumeresponsibility for the results of such application. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.