



# Material Safety Data Sheet

MSDS ID NO.: 0197MAR019  
Revision date: 09/12/2005

## 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

**Product code:** MR1665  
**Product name:** Marathon Maratech HDP Grease  
**Synonyms:** Maratech™ HDP Grease; Maratech HDP Grease; Maratech Heavy Duty Polyurea Grease  
**Chemical Family:** Lubricating Grease  
**Formula:** Mixture

**Manufacturer:**  
Marathon Petroleum Company LLC  
539 South Main Street  
Findlay OH 45840

**Other information:** 419-421-3070  
**Emergency telephone number:** 877-627-5463

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Maratec™ HDP Grease is a complex mixture of highly refined, high viscosity, lubricating oil base stock with a synthetic polyurea thickener.

### Product information

Name	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA - Vacated PELs - Time Weighted Ave	Other:
Marathon Maratech HDP Grease	Mixture	100			

### Component Information

Name	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA - Vacated PELs - Time Weighted Ave	Other:
Residual Oils Solvent Dewaxed	64742-62-7	50-60			Mineral Oil Mist (MOM) =5 mg/m <sup>3</sup> TWA = 10 mg/m <sup>3</sup> STEL
Additives	Not specified	7-17			
Polyurea Thickeners	Mixture	3-13			
Petroleum Distillates, Solvent Dewaxed Heavy Paraffinic	64742-65-0	20-30			Mineral Oil Mist (MOM) =5 mg/m <sup>3</sup> TWA = 10 mg/m <sup>3</sup> STEL
Distillates, Petroleum Hydrotreated Heavy Naphthenic	64742-52-5	7-10			

**Notes:** The manufacturer has voluntarily elected to reflect exposure limits contained in OSHA's 1989 air contaminants standard in its MSDS's, even though certain of those exposure limits were vacated in 1992.

## 3. HAZARDS IDENTIFICATION

## EMERGENCY OVERVIEW

THIS PRODUCT IS A NON-VOLATILE AND NON-COMBUSTIBLE, AQUA COLORED SEMI-SOLID GREASE BUT WILL IGNITE AND BURN AT ELEVATED TEMPERATURES.

### OSHA WARNING LABEL:

**THIS PRODUCT HAS BEEN EVALUATED AND DOES NOT REQUIRE ANY HAZARD WARNING LABEL UNDER THE OSHA HAZARD COMMUNICATION STANDARD.**

### CONSUMER WARNING LABEL:

**A CONSUMER WARNING LABEL IS NOT APPLICABLE FOR THIS PRODUCT.**

**Inhalation:** No acute effects expected from routine operations. Overheating of product may produce vapors which can cause respiratory irritation, dizziness and nausea.

**Ingestion:** Product would be expected to have a low order of acute toxicity.

**Skin contact:** Prolonged or repeated liquid contact can cause dermatitis, folliculitis or oil acne.

**Eye contact:** Short-term contact (solid or vapor) may result in slight eye irritation.

### Carcinogenic Evaluation:

#### Product information

Name	IARC Carcinogens:	NTP Carcinogens:	ACGIH - Carcinogens:	OSHA - Select Carcinogens:
Marathon Maratech HDP Grease Mixture	NE			

**Notes:** Based on the available information, this product cannot be classified with regard to its carcinogenicity. This product is not listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA).

### Component Information

## 4. FIRST AID MEASURES

**Inhalation:** No acute effects expected. If symptoms or irritation occur with any exposure, call a physician.

**Skin contact:** Wash with soap and large amounts of water. Remove contaminated clothing. If symptoms or irritation occur, call a physician.

If product is accidentally injected into or under the skin, regardless of wound size or initial absence of symptoms, the individual should be evaluated immediately by a physician as a surgical emergency.

**Ingestion:** Not expected to be acutely toxic. If large amounts are swallowed, immediately call a physician.

**Eye contact:** Flush eyes with large amounts of tepid water for at least 15 minutes. If symptoms or irritation occur, call a physician.

**Notes to physician:**

High velocity injection under the skin may result in serious injury. If left untreated the affected area is subject to infection, disfigurement, lack of blood circulation and may require amputation. When dispensed by high pressure equipment this material can easily penetrate the skin and leave a bloodless puncture wound. Material injected into a finger can be deposited into the palm of the hand. Within 24-48 hours the patient may experience swelling, discoloration, and throbbing pain in the affected area. Immediate treatment by a surgical specialist is recommended.

**Medical conditions aggravated by exposure:** No data available.

**5. FIRE FIGHTING MEASURES**

**Suitable extinguishing media:**

For small fires, Class B fire extinguishing media such as CO2, dry chemical, foam (AFFF/ATC) or water spray can be used. For large fires, water spray, fog or foam (AFFT/ATC) can be used. Fire fighting should be attempted only by those who are adequately trained and equipped with proper protective equipment.

**Specific hazards:**

The product is not combustible per the OSHA Hazard Communication Standard, but will ignite and burn at temperatures exceeding the flash point.

**Special protective equipment for firefighters:**

Avoid using straight water streams. Water spray and foam (AFFF/ATC) must be applied carefully to avoid frothing and from as far a distance as possible. Avoid excessive water spray application. Use water spray to cool exposed surfaces from as far a distance as possible. Keep run-off water out of sewers and water sources.

**Flash point:**

>392 F COC

**Autoignition temperature:**

No data available.

**Flammable limits in air - lower (%):**

No data available.

**Flammable limits in air - upper (%):**

No data available.

**NFPA rating:**

Health: 1  
Flammability: 1  
Reactivity: 0  
Other: -

**HMS classification:**

Health: 1  
Flammability: 1  
Reactivity: 0  
Special: \*See Section 8 for guidance in selection of personal protective equipment.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions:**

Keep public away. Isolate and evacuate area. Shut off source if safe to do so. Advise authorities and National Response Center (800-424-8802) if substance has entered a watercourse or sewer. Advise local and state emergency services agencies, if appropriate. Recover and return product to source. Use suitable absorbent materials such as vermiculite, sand, or clay to clean up residual liquids.

**7. HANDLING AND STORAGE**

**Handling:**

Comply with all applicable EPA, OSHA, NFPA and consistent state and local requirements. Use appropriate grounding and bonding practices. All five gallon pails and larger metal containers (including tank cars and tank trucks) should be grounded and/or bonded when material is transferred. Store in properly closed containers that are appropriately labeled and in a cool well-ventilated area. Do not cut, drill, grind or weld on empty containers since they may contain explosive residues. Do not expose to heat, open flames, strong oxidizers or other sources of ignition.

Avoid repeated and prolonged skin contact. Exercise good personal hygiene including removal of soiled clothing and prompt washing with soap and water.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### PERSONAL PROTECTIVE EQUIPMENT

<b>Engineering measures:</b>	Local or general exhaust required when using at elevated temperatures that generate vapors or mists.
<b>Respiratory protection:</b>	Not required under normal conditions and adequate ventilation. Approved organic vapor chemical cartridge or supplied air respirators should be worn when significant vapors are generated. Observe respirator protection factor criteria cited in ANSI Z88.2. Self-contained breathing apparatus should be used for fire fighting.
<b>Skin and body protection:</b>	Use chemical resistant gloves such as neoprene, nitrile, or PVA to prevent prolonged or repeated skin contact.
<b>Eye protection:</b>	Not normally required for routine operations.

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

<b>Appearance:</b>	Green semi-solid
<b>Physical state (Solid/Liquid/Gas):</b>	Solid
<b>Substance type (Pure/Mixture):</b>	Mixture
<b>Color:</b>	Green
<b>Odor:</b>	Mineral Oil
<b>Molecular weight:</b>	Not determined.
<b>pH:</b>	Neutral
<b>Boiling point/range (5-95%):</b>	> 600 F
<b>Melting point/range:</b>	Not determined.
<b>Decomposition temperature:</b>	Not applicable.
<b>Specific gravity:</b>	0.945 @ 60 F
<b>Density:</b>	7.86 lbs/gal @ 60 F
<b>Bulk density:</b>	No data available.
<b>Vapor density:</b>	No data available.
<b>Vapor pressure:</b>	Not determined.
<b>Evaporation rate:</b>	No data available.
<b>Solubility:</b>	Not determined
<b>Solubility in other solvents:</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>VOC content(%):</b>	No data available.
<b>Viscosity:</b>	350 cSt @ 40 C 27.5 cSt @ 100 C

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	The material is stable at 70 F, 760 mm pressure.
<b>Polymerization:</b>	Will not occur.

**Hazardous decomposition products:**

Carbon monoxide, carbon dioxide, hydrogen sulfide, oxides of sulfur, oxides of nitrogen and calcium oxide.

**Materials to avoid:**

Strong oxidizers such as nitrates, chlorates, peroxides.

**Conditions to avoid:**

Heat and open flames.

**11. TOXICOLOGICAL INFORMATION****Acute toxicity:****Product information**

Name	CAS Number	Inhalation:	Dermal:	Oral:
Marathon Maratech HDP Grease	Mixture	NA	NDA	NDA

Based on the toxicity of its individual components, this product would not be expected to be toxic via either the oral or dermal route of exposure.

**12. ECOLOGICAL INFORMATION****Ecotoxicity effects:**

This product is not expected to cause any acute or chronic toxicity to aquatic organisms due to its extremely low water solubility.

**13. DISPOSAL CONSIDERATIONS****Cleanup Considerations:**

Don't pollute, conserve resources. "Empty" drums and drum liners retain residue (solid, liquid and/or vapor) that will burn and can be dangerous. Do not attempt to clean and reuse. Dispose of empty drum liners in an environmentally safe manner. "Empty" drums should be completely drained, properly bunged and promptly returned to a drum reconditioner.

This material as supplied and by itself, when discarded or disposed of, is not an EPA RCRA hazardous waste according to federal regulations. This material could become a hazardous waste if mixed or contaminated with a hazardous waste or other substance(s). It is the responsibility of the user to determine if disposal material is hazardous according to federal, state and local regulations.

**14. TRANSPORT INFORMATION****49 CFR 172.101:****DOT:**

**Transport Information:** This material when transported via US commerce is NOT REGULATED by DOT regulations.

**DOT reportable quantity (lbs):**

Not applicable.

**TDG (Canada):**

**Regulated substances:**

Not applicable.

**15. REGULATORY INFORMATION**

**Federal Regulatory Information:**

US TSCA Chemical Inventory Section 8(b):

This product and/or its components are listed on the TSCA Chemical Inventory.

OSHA Hazard Communication Standard:

This product has been evaluated and determined not to be hazardous as defined in OSHA's Hazard Communication Standard.

**EPA Superfund Amendment & Reauthorization Act (SARA):****SARA Section 302:**

This product contains the following component(s) that have been listed on EPA's Extremely Hazardous Substance (EHS) List:

Name	CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs
Residual Oils Solvent Dewaxed	NA
Additives	NA
Polyurea Thickeners	NA
Petroleum Distillates, Solvent Dewaxed Heavy Paraffinic	NA
Distillates, Petroleum Hydrotreated Heavy Naphthenic	NA

**SARA Section 304:**

This product contains the following component(s) identified either as an EHS or a CERCLA Hazardous substance which in case of a spill or release may be subject to SARA reporting requirements:

Name	CERCLA/SARA - Hazardous Substances and their Reportable Quantities
Residual Oils Solvent Dewaxed	NA
Additives	NA
Polyurea Thickeners	NA
Petroleum Distillates, Solvent Dewaxed Heavy Paraffinic	NA
Distillates, Petroleum Hydrotreated Heavy Naphthenic	NA

**SARA Section 311/312:**

The following EPA hazard categories apply to this product:

None

**SARA Section 313:**

This product contains the following component(s) that may be subject to reporting on the Toxic Release Inventory (TRI) From R:

Name	CERCLA/SARA 313 Emission reporting:
Residual Oils Solvent Dewaxed	None
Additives	None
Polyurea Thickeners	None
Petroleum Distillates, Solvent Dewaxed Heavy Paraffinic	None
Distillates, Petroleum Hydrotreated Heavy Naphthenic	None

**State and Community Right-To-Know Regulations:**

The following component(s) of this material are identified on the regulatory lists below:

Residual Oils Solvent Dewaxed

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	Not Listed.
Pennsylvania Right-To-Know:	Not Listed.
Massachusetts Right-To Know:	Not Listed.
Florida substance List:	Not Listed.
Rhode Island Right-To-Know:	Not Listed
Michigan critical materials register list:	Not Listed.

Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Not Listed
New Jersey - Environmental Hazardous Substances List:	Not Listed
Illinois - Toxic Air Contaminants	Not Listed
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	Not Listed
<b>Additives</b>	
Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	Not Listed.
Pennsylvania Right-To-Know:	Not Listed.
Massachusetts Right-To Know:	Not Listed.
Florida substance List:	Not Listed.
Rhode Island Right-To-Know:	Not Listed
Michigan critical materials register list:	Not Listed.
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Not Listed
New Jersey - Environmental Hazardous Substances List:	Not Listed
Illinois - Toxic Air Contaminants	Not Listed
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	Not Listed
<b>Polyurea Thickeners</b>	
Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	Not Listed.
Pennsylvania Right-To-Know:	Not Listed.
Massachusetts Right-To Know:	Not Listed.
Florida substance List:	Not Listed.
Rhode Island Right-To-Know:	Not Listed
Michigan critical materials register list:	Not Listed.
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Not Listed
New Jersey - Environmental Hazardous Substances List:	Not Listed
Illinois - Toxic Air Contaminants	Not Listed
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	Not Listed
<b>Petroleum Distillates, Solvent Dewaxed Heavy Paraffinic</b>	
Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	Not Listed.
Pennsylvania Right-To-Know:	Not Listed.
Massachusetts Right-To Know:	Not Listed.

Florida substance List:	Not Listed.
Rhode Island Right-To-Know:	Not Listed
Michigan critical materials register list:	Not Listed.
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Not Listed
New Jersey - Environmental Hazardous Substances List:	Not Listed
Illinois - Toxic Air Contaminants	Not Listed
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	Not Listed
Distillates, Petroleum Hydrotreated Heavy Naphthenic	
Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	Not Listed.
Pennsylvania Right-To-Know:	Not Listed.
Massachusetts Right-To Know:	Not Listed.
Florida substance List:	Not Listed.
Rhode Island Right-To-Know:	Not Listed
Michigan critical materials register list:	Not Listed.
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Not Listed
New Jersey - Environmental Hazardous Substances List:	Not Listed
Illinois - Toxic Air Contaminants	Not Listed
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	Not Listed

**Canadian Regulatory Information:**

Canada DSL/NDSL Inventory: This product and/or its components are listed either on the Domestic Substances List (DSL) or the Non Domestic Substance List (NDSL).

**16. OTHER INFORMATION**

**Additional Information:** No data available.

**Prepared by:** Craig M. Parker Manager, Toxicology And Product Safety

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**End of Safety Data Sheet**