SAFETY DATA SHEET

SDS ID NO.: 0174MAR019
Revision Date 05/22/2015

1. IDENTIFICATION

Product Name: Marathon Petroleum Marafluid Super HT
Synonym: Marafluid Super Hydraulic Transmission Fluid; 577 Super HT; Unitrac Fluid 10W30
Product Code: 0174MAR019
Chemical Family: Hydrocarbon Mixture
Recommended Use: Hydraulic Fluid.
Restrictions on Use: All others.

Manufacturer, Importer, or Responsible Party Name and Address:
MARATHON PETROLEUM COMPANY LP
539 South Main Street
Findlay, OH 45840

SDS information: 1-419-421-3070
Emergency Telephone: 1-877-627-5463

2. HAZARD IDENTIFICATION

Classification

OSHA Regulatory Status
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

| Serious eye damage/eye irritation | Category 2A |

Hazards Not Otherwise Classified (HNOC)
Not applicable.

Label elements

EMERGENCY OVERVIEW

Warning
Causes serious eye irritation
Appearance | Clear Liquid | Physical State | Liquid | Odor | Petroleum
--- | --- | --- | --- | --- | ---

Precautionary Statements - Prevention
Wash hands and any possibly exposed skin thoroughly after handling
Wear eye/face protection

Precautionary Statements - Response
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical attention

Precautionary Statements - Storage
Not applicable.

Precautionary Statements - Disposal
Not applicable.

Additional Information
Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

3. COMPOSITION/INFORMATION ON INGREDIENTS
Lube oil is a complex mixture of highly refined lubricating base stocks and additives.
Composition Information:

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS Number</th>
<th>% Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc Alkyl Dithiophosphate</td>
<td>68649-42-3</td>
<td>1-5</td>
</tr>
</tbody>
</table>

All concentrations are percent by weight unless material is a gas. Gas concentrations are in percent by volume.

4. FIRST AID MEASURES

First Aid Measures

General Advice: In case of accident or if you feel unwell, seek medical advice immediately (show directions for use or safety data sheet if possible).

Inhalation: Remove to fresh air. If not breathing, institute rescue breathing. If breathing is difficult, ensure airway is clear, give oxygen and continue to monitor. If heart has stopped, immediately begin cardiopulmonary resuscitation (CPR). If symptoms occur get medical attention.

Skin Contact: Wash skin with plenty of soap and water. If irritation or other symptoms occur get medical attention. Wash contaminated clothing and clean shoes before reuse. Any injection injury from high pressure equipment should be evaluated immediately by a physician as potentially serious (See NOTES TO PHYSICIAN).

Eye Contact: Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Gently remove contacts while flushing. Get medical attention.

Ingestion: Rinse mouth out with water. If spontaneous vomiting occurs, keep head below hips, or if patient is lying down, turn body and head to side to prevent aspiration and monitor for breathing difficulty. Never give anything by mouth to an unconscious person. Keep affected person warm and at rest. If symptoms develop, seek medical attention.

Most important signs and symptoms, both short-term and delayed with overexposure

Adverse Effects: Causes eye irritation. Symptoms may include redness, itching, and inflammation. May cause skin irritation and/or dermatitis Preexisting skin conditions and/or respiratory disorders may be aggravated by exposure to this product.
Indication of any immediate medical attention and special treatment needed

Notes To Physician: SKIN: Leaks or accidents involving high-pressure equipment may inject a stream of material through the skin and initially produce an injury that may not appear serious. Only a small puncture wound may appear on the skin surface but, without proper treatment and depending on the nature, original pressure, volume, and location of the injected material, can compromise blood supply to an affected body part. Prompt surgical debridement of the wound may be necessary to prevent irreversible loss of function and/or the affected body part. High pressure injection injuries may be SERIOUS SURGICAL EMERGENCIES.

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 (AFFF/ATC) can be used. Firefighting should be attempted only by those who are adequately trained and equipped with proper protective equipment.

Unsuitable extinguishing media
Do not use a solid water stream as it may scatter and spread fire.

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

Hazardous combustion products
Smoke, carbon monoxide, and other products of incomplete combustion.

Explosion data
- Sensitivity to Mechanical Impact: No.
- Sensitivity to Static Discharge: No.

Special protective equipment and precautions 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.

Additional firefighting tactics
Not applicable.

NFPA
- Health: 1
- Flammability: 1
- Instability: 0
- Special Hazard: -

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Keep public away. Isolate and evacuate area. Shut off source if safe to do so.

Protective equipment: Use personal protection measures as recommended in Section 8.

Emergency procedures: Advise authorities and National Response Center (800-424-8802) if the product has entered a water course or sewer. Notify local health and pollution control agencies, if appropriate.

Environmental precautions: Avoid release to the environment. Avoid subsoil penetration.

Methods and materials for containment: Prevent further leakage or spillage if safe to do so.

Methods and materials for cleaning up: Use suitable absorbent materials such as vermiculite, sand, or clay to clean up residual liquids. Recover and return free product to proper containers.
7. HANDLING AND STORAGE

Safe Handling Precautions:
Avoid contact with skin, eyes and clothing. Do not swallow. Avoid breathing vapors or mists. Use good personal hygiene practices. Wash thoroughly after handling. Use personal protection measures as recommended in Section 8. Do not cut, drill, grind or weld on empty containers since explosive residues may remain. Refer to applicable EPA, OSHA, NFPA and consistent state and local requirements.

High-pressure injection of any material through the skin is a serious medical emergency even though the small entrance wound at the injection site may not initially appear serious. These injection injuries can occur from high-pressure equipment such as paint spray or grease or guns, fuel injectors, or pinhole leaks in hoses or hydraulic lines and should all be considered serious. High pressure injection injuries may be SERIOUS SURGICAL EMERGENCIES (See First Aid Section 4).

Storage Conditions:
Store in properly closed containers that are appropriately labeled and in a cool, well-ventilated area. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Store away from incompatible materials.

Incompatible Materials
Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Name</th>
<th>ACGIH TLV</th>
<th>OSHA PELs:</th>
<th>OSHA - Vacated PELs</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc Alkyl Dithiophosphate 68649-42-3</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

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

Engineering measures:
Local or general exhaust required when using at elevated temperatures that generate vapors or mists.

Personal protective equipment
Eye protection:
Use goggles or face-shield if the potential for splashing exists.

Skin and body protection:
Wear neoprene, nitrile or PVA gloves to prevent skin contact. Glove suitability is based on workplace conditions and usage. Contact the glove manufacturer for specific advice on glove selection and breakthrough times. Wear appropriate protective clothing.

Respiratory protection:
Use a NIOSH approved organic vapor chemical cartridge or supplied air respirators when there is the potential for airborne exposures to exceed permissible exposure limits or if excessive vapors are generated. Observe respirator assigned protection factors (APFs) criteria cited in federal OSHA 29 CFR 1910.134. Self-contained breathing apparatus should be used for fire fighting.

Hygiene measures:
Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties
Physical State: Liquid
Appearance: Clear Liquid
Color: Clear
Odor: Petroleum
Odor Threshold: No data available.
10. STABILITY AND REACTIVITY

Reactivity

The product is non-reactive under normal conditions.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Hazardous polymerization

Will not occur.

Conditions to avoid

Sources of heat or ignition.

Incompatible Materials

Strong oxidizing agents.

Hazardous decomposition products

None known under normal conditions of use.

11. TOXICOLOGICAL INFORMATION

Potential short-term adverse effects from overexposures

Inhalation

Overheating may produce vapors which may cause respiratory irritation, dizziness and nausea.

Eye contact

Irritating to eyes. May cause reddening and tearing.

Skin contact

May cause skin irritation. Prolonged or repeated exposure may cause dermatitis, folliculitis or oil acne.

Ingestion

May cause irritation of the mouth, throat and gastrointestinal tract.

Acute toxicological data

<table>
<thead>
<tr>
<th>Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc Alkyl Dithiophosphate</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>68649-42-3</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Delayed and immediate effects as well as chronic effects from short and long-term exposure

This product is considered to have a low order of acute and chronic oral and dermal toxicity.

Adverse effects related to the physical, chemical and toxicological characteristics

Signs and Symptoms
Causes eye irritation. Symptoms may include redness, itching, and inflammation. Contact may cause skin dermatitis and/or irritation. Repeated or prolonged skin contact may cause drying, reddening, itching and cracking.

Sensitization
Not expected to be a skin or respiratory sensitizer.

Mutagenic effects
None known.

Carcinogenicity
Cancer designations are listed in the table below

<table>
<thead>
<tr>
<th>Name</th>
<th>ACGIH (Class)</th>
<th>IARC (Class)</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc Alkyl Dithiophosphate 68649-42-3</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

Reproductive toxicity
None known.

Specific Target Organ Toxicity (STOT) - single exposure
Not classified.

Specific Target Organ Toxicity (STOT) - repeated exposure
Not classified.

Aspiration hazard
Not classified.

12. ECOLOGICAL INFORMATION

Ecotoxicity
No information available.

<table>
<thead>
<tr>
<th>Name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Toxicity to Microorganisms</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc Alkyl Dithiophosphate 68649-42-3</td>
<td>-</td>
<td>96-hr LC50 = 1-5 mg/L Fathead minnow (static)</td>
<td>-</td>
<td>48-hr EC50 = 1.0-1.5 mg/L Daphnia magna</td>
</tr>
</tbody>
</table>

Persistence and degradability
No information available.

Bioaccumulation
Contains component(s) with the potential to bioaccumulate.

Mobility in soil
No information available.

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

Description of Waste Residues
No information available.

Safe Handling of Wastes
Handle in accordance with applicable local, state, and federal regulations. Use personal protection measures as required.

Disposal of Wastes / Methods of Disposal
The user is responsible for determining if any discarded material is a hazardous waste (40 CFR 262.11). Dispose of in accordance with federal, state and local regulations.

Methods of Contaminated Packaging Disposal
Empty containers should be completely drained and then discarded or recycled, if possible. Do not cut, drill, grind or weld on empty
containers since explosive residues may be present. Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT (49 CFR 172.101):
- **UN Proper Shipping Name:** Not Regulated
- **UN/Identification No:** Not applicable
- **Class:** Not applicable
- **Packing Group:** Not applicable

TDG (Canada):
- **UN Proper Shipping Name:** Not Regulated
- **UN/Identification No:** Not applicable
- **Transport Hazard Class(es):** Not applicable
- **Packing Group:** Not applicable

15. REGULATORY INFORMATION

US Federal Regulatory Information:
- **US TSCA Chemical Inventory Section 8(b):** This product and/or its components are listed on the TSCA Chemical Inventory.
- **EPA Superfund Amendment & Reauthorization Act (SARA):**
  - **SARA Section 302:** This product may contain component(s) that have been listed on EPA’s Extremely Hazardous Substance (EHS) List:
    | Name                          | CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs |
    |-------------------------------|---------------------------------------------------------------|
    | Zinc Alkyl Dithiophosphate    | NA                                                            |
  - **SARA Section 304:** This product may contain 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                          | Hazardous Substances RQs |
    |-------------------------------|--------------------------|
    | Zinc Alkyl Dithiophosphate    | NA                       |
  - **SARA Section 311/312:** The following EPA hazard categories apply to this product:
    - **Acute Health Hazard**
  - **SARA Section 313:** This product may contain component(s), which if in exceedance of the de minimis threshold, may be subject to the reporting requirements of SARA Title III Section 313 Toxic Release Reporting (Form R):
    | Name                          | CERCLA/SARA 313 Emission reporting: |
    |-------------------------------|-------------------------------------|
    | Zinc Alkyl Dithiophosphate    | 1.0 % de minimis concentration      |

State and Community Right-To-Know Regulations:
The following component(s) of this material are identified on the regulatory lists below:
- **Zinc Alkyl Dithiophosphate**
  - Louisiana Right-To-Know: Not Listed
  - California Proposition 65: Not Listed
  - New Jersey Right-To-Know: SN 3012
  - Pennsylvania Right-To-Know: Environmental hazard
  - Massachusetts Right-To-Know: Not Listed
  - Florida Substance List: Not Listed
  - Rhode Island Right-To-Know: Not Listed
  - Michigan Critical Materials Register List: 100 lb Annual usage threshold
  - 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: SN 3012 TPQ: 500 lb (Category Code N982. Includes any unique chemical substance that contains the named metal as part of that chemical structure)
Illinois - Toxic Air Contaminants: Not Listed
New York - Reporting of Releases Part 597 - List of Hazardous Substances: Not Listed

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

Canadian Regulatory Information: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by those regulations.

<table>
<thead>
<tr>
<th>Name</th>
<th>Canada - WHMIS: Classifications of Substances:</th>
<th>Canada - WHMIS: Ingredient Disclosure:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc Alkyl Dithiophosphate</td>
<td>D2B</td>
<td>1%</td>
</tr>
</tbody>
</table>

Note: Not applicable.

16. OTHER INFORMATION

Prepared By: Toxicology and Product Safety

Revision Notes

Revision Date: 05/22/2015

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is intended as guidance for safe handling, use, processing, storage, transportation, accidental release, clean-up and disposal and is not considered 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 materials or in any process, unless specified in the text.