SAFETY DATA SHEET



SDS ID NO.: 0175MAR019 Revision date 04/25/2023

1. IDENTIFICATION

Product Name Marathon 287 Hydraulic & Flushing Oil 5W

Synonym HF Oil; Hydraulic & Flushing Oil; HF 5W Oil; 287 HF Oil

Product code 0175MAR019 **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 (M-F; 8-5 EST)

24 Hour Emergency Telephone CHEMTREC: 1-800-424-9300 (CCN# 13740)

2. HAZARD IDENTIFICATION

OSHA Regulatory Status

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Classification

Not classified

Hazards Not Otherwise Classified (HNOC)

Not applicable

2.2. Label Elements

No known significant effects or critical hazards.

Appearance Clear to Amber Liquid Physical State Liquid **Odor** Petroleum

Precautionary Statements - Prevention

Not applicable

Precautionary Statements - Response

Not applicable

Precautionary Statements - Storage

Not applicable

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Precautionary Statements - Disposal

Dispose of contents/container at an approved waste disposal plant

Additional Information

This SDS contains valuable information critical to the safe handling and proper use of the product. The SDS should be retained and available for employees and other users of this product. 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

Composition Information

Chemical Name	CAS Number	% Concentration
Distillates (Petroleum), Hydrotreated Heavy Paraffinic	64742-54-7	45-70
Residual Oils (Petroleum), Solvent Dewaxed	64742-62-7	10-30
Distillates (petroleum), solvent-dewaxed heavy	64742-65-0	10-30
paraffinic		

Hydraulic fluid is a complex mixture of highly refined lubricating oil base stocks and additives. 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 Move victim to fresh air and keep in a position comfortable for breathing. Provide respiratory

support, if necessary. 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. Any injection injury from high pressure equipment should be evaluated immediately by a physician as potentially serious (See NOTES TO PHYSICIAN).

Eye contact Immediately flush eyes with plenty of water. Eyelids should be held away from the eyeball

to ensure thorough rinsing. Gently remove contacts while flushing. If irritation or other

symptoms occur get medical attention.

Ingestion Rinse mouth out with water. Do not induce vomiting unless directed by medical personnel.

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. If symptoms

develop, seek medical attention.

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

Adverse effects Prolonged or repeated inhalation of oil mist at high concentrations may cause respiratory

irritation and/or other pulmonary effects. Prolonged and repeated skin contact may cause

defatting and drying of the skin and may lead to irritation and/or dermatitis.

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

For small fires, Class B fire extinguishing media such as CO2, dry chemical, foam or water Suitable extinguishing media

> spray can be used. For large fires, water spray, fog or foam 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.

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

Explosion data

Sensitivity to mechanical

impact:

Sensitivity to static discharge: No.

No.

Special protective equipment and

precautions for firefighters

Avoid using straight water streams. Water spray and foam 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

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Keep people away from and upwind of spill/leak. Contaminated surfaces may be slippery.

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

Stop leak if you can do it without risk. Prevent spilled material from entering storm drains, sewers, and open waterways. Move containers from spill area. Contain liquid with sand or

soil.

up

Methods and materials for cleaning Use suitable absorbent materials such as vermiculite, sand, or clay to clean up residual liquids. Recover and return free product to proper containers. Dispose of in accordance with local/regional/national regulations.

7. HANDLING AND STORAGE

Safe handling precautions

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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, puncture, weld or incinerate container. Empty container may contain hazardous residue. 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

Control parameters

Chemical Name	ACGIH TLV	OSHA PELS	NIOSH IDLH
Petroleum Base Oils MIXTURE	Highly and severely refined, inhalable fraction	TWA: 5 mg/m ³	2500 mg/m ³
	5 mg/m³ TWA		

Notes: No further information available.

Engineering measuresLocal or general exhaust required to maintain vapors below established limits.

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 protectionUse 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.

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

Appearance Clear to Amber Liquid

Physical State Liquid

ColorClear to AmberOdorPetroleumOdor ThresholdNo data available.

PropertyValues (method)pHNo available data.Melting Point / Freezing PointNo data available.Initial Boiling Point / Boiling RangeNo data available.

Flash Point > 200 °C / > 392 °F (Cleveland Open-Cup)

Evaporation Rate No data available. Flammability (solid, gas) Not applicable.

Flammability Limit in Air (%):

Upper Flammability Limit:
Lower Flammability Limit:
No data available.

No data available. **Vapor Density** Specific Gravity / Relative Density 0.88 (0.84-0.88) Water Solubility No data available. No data available. **Partition Coefficient Autoignition Temperature** No data available. **Decomposition Temperature** No data available. **Kinematic Viscosity** >28 cSt @ 40°C / 104°F **VOC Content (%)** 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 Inhalation of high vapor concentrations may cause irritation of the respiratory system.

Exposure to vapor or contact with liquid may cause mild eye irritation, including tearing,

stinging, and redness.

Skin contact 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

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Petroleum Base Oils	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5 mg/L (Rat) 4 h
MIXTURF	1		

Immediate and delayed effects as well as chronic effects from short and long-term exposure

BASE OILS: Mineral oil mists from highly refined or hydrotreated oils are generally of low acute and subchronic toxicity. Overexposure to mists may cause inflammation of the lungs and lipoid pneumonia.

Adverse effects related to the physical, chemical and toxicological characteristics

Signs and symptoms Prolonged or repeated inhalation of oil mist at high concentrations may cause respiratory

irritation and/or other pulmonary effects. Prolonged and repeated skin contact may cause

defatting and drying of the skin and may lead to irritation and/or dermatitis.

Acute toxicity

None known.

Skin corrosion/irritation

None known.

Serious eye damage/eye irritation None known.

Sensitization None known.

Mutagenic effects None known.

Carcinogenicity Prolonged or repeated contact with used lube oils may cause skin cancer.

Chemical Name	ACGIH (Class)	IARC (Class)	NTP	OSHA
Petroleum Base Oils	Mineral oil, highly/severely	Mineral oil, highly refined	Not Listed	Not Listed
MIXTURE	refined (inhalable fraction)	Not Classifiable (3)		
	Not Classifiable (A4)			

Reproductive toxicity None known.

Specific Target Organ Toxicity (STOT) - single exposure

None known.

Specific Target Organ Toxicity (STOT) - repeated exposure

None known.

Aspiration hazard None known.

12. ECOLOGICAL INFORMATION

Ecotoxicity Used motor and/or lube oils may be toxic to birds and fish.

Chemical Name	Fish	Crustacea	Algae/aquatic plants
Petroleum Base Oils	96-hr LC50 = 5000 mg/L	48-hr EC50 = 1000 mg/L	-
MIXTURE	Rainbow trout	Daphnia magna	

Persistence and degradability
Not expected to be readily biodegradable.

Bioaccumulation No information available.

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.

Contaminated packaging disposal Empty containers should be completely drained and then discarded or recycled, if possible.

Do not cut, drill, grind, puncture, weld or incinerate container. Empty container may contain hazardous residue. Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT

SDS ID NO.: 0175MAR019

UN/Identification No:
UN Proper Shipping Name:
Not applicable.
Transport Hazard Class(es):
Not applicable

Packing Group: Not applicable

<u>IATA</u>

UN/Identification No:
UN Proper Shipping Name:
Transport Hazard Class(es):
Packing Group:

Not applicable
Not applicable
Not applicable

IMDG

UN/Identification No:
UN Proper Shipping Name:
Transport Hazard Class(es):
Packing Group:
Not applicable
Not applicable
Not applicable

15. REGULATORY INFORMATION

Regulatory Information

US TSCA Chemical InventoryThis product and/or its components are listed on the TSCA Chemical Inventory or are

exempt.

Canada DSL/NDSL Inventory

This product and/or its components are listed either on the Domestic Substances List (DSL)

or are exempt.

EPA Superfund Amendment & Reauthorization Act (SARA)

SARA Section 302 This product does not contain any component(s) included on EPA's Extremely Hazardous

Substance (EHS) List above the de minimis threshold.

SARA Section 304 This product does not contain any component(s) identified as an EHS or a CERCLA

Hazardous substance above the de minimis threshold.

SARA Section 311/312 Not applicable.

SARA Section 313 This product does not contain components, which if in exceedance of the de minimus

threshold, may be subject to the reporting requirements of SARA Title III Section 313 Toxic

Release Reporting (Form R).

U.S. State Regulations

California Proposition 65 This product does not contain chemicals known to the State of California to cause cancer,

birth defects or other reproductive harm.

For more information, go to www.P65Warnings.ca.gov.

State Right-To-Know Regulations The following component(s) of this material are identified on the regulatory lists below:

Chemical Name	New Jersey Right-To-Know	Pennsylvania Right-To-Know	Massachusetts Right-To Know
Petroleum Base Oils MIXTURE	Listed	Listed	Listed

16. OTHER INFORMATION

Prepared by Toxicology & Product Safety

NFPA



Revision Notes

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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.