



SAFETY DATA SHEET (SDS)

1 - IDENTIFICATION

QUADROIL HP-4

Chemical family: Petroleum Hydrocarbon

Recommended use: Hydraulic Fluid.

Tower Metalworking Fluids

4300 South Tripp Ave.
Chicago, IL 60632

Information telephone #: (773) 927-6161 (7:30 AM to 4 PM, CST, Monday to Friday)

24 Hr. emergency telephone #: CHEMTREC: (800) 424-9300

2 - HAZARDS IDENTIFICATION

Classification of chemical:

This material is classified as non-hazardous under OSHA regulations (29CFR 1910.1200) (Hazcom 2012).

Signal word: None required.

Hazard Pictogram: None required.

Hazard statement: None required.

Precautionary statement: None required.

3 - COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical name	CAS #	Concentration
Ingredients classified as non-hazardous under OSHA regulations (29CFR 1900-1200) (Hazcom 2012)		

4 - FIRST-AID MEASURES

Description of first aid measures:

Inhalation: If overcome by fumes from hot product, move to fresh air. Get medical attention.

Ingestion: Do not induce vomiting. Get medical attention.

Skin: Wash with warm water and mild soap. Remove contaminated clothing.

Eye: Hold eyelids apart and flush with plenty of water for at least 15 minutes or until irritation subsides. Remove contact lenses, if present and easy to do, continue rinsing. If irritation persists get medical attention.

Symptoms and effects, both acute and delayed:

Acute: Possible Eye and skin irritation. Low order of oral toxicity.

Chronic: Repeated or prolonged skin contact may remove natural oils, resulting in development of dermatitis.

5 - FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable: Use water fog or spray, foam, dry chemicals, or carbon dioxide (CO₂) to extinguish flames.

Unsuitable: Straight streams of water.

Specific hazards and combustion products: Products may include and are not limited to oxides of carbon, phosphorus, sulfur, zinc upon combustion.

Special protective equipment and precautions for fire-fighters: Use standard protective equipment and in enclosed spaces, recommend self-contained breathing apparatus (SCBA) with full face-piece operated in a pressure-demand or other positive mode and full body protective clothing. Use water spray to cool fire exposed surfaces and to protect personnel. If a spill has not ignited, use water spray to disperse vapors. Treat as oil fire.

6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: All persons dealing with the spill should wear appropriate personal protective equipment. Keep others away from spill. Restrict access to area until the spill has been cleaned up. Extinguish all sources of ignition.

Methods and materials for containment and cleaning up: Extinguish all sources of ignition. Contain spill, soak up in absorbent medium, earth, sand or other non-combustible material. Transfer to suitable containers. If spill enters sewer, notify proper authorities.

7 - HANDLING AND STORAGE

Precautions for safe handling: Do not breathe hot vapors. Avoid prolonged or repeated skin contact. Wash thoroughly before meals and at end of work periods. Launder or dry-clean soiled clothing before reuse. Personnel in close vicinity of oil mists above TLV limit should wear approved breathing devices.

Conditions for safe storage: Keep containers closed when not in use. Do not handle or store near heat, sparks, flame, or strong oxidants. Do not pressurize, weld braze, solder, drill or cut "empty" containers.

Incompatible materials: Strong oxidizing agents.

8 - EXPOSURE CONTROLS/ PERSONAL PROTECTION

Exposure limits: No exposure standards have been established for this material.

Engineering controls: Good general ventilation should be used.

Individual protection measures and personal protective equipment: Splash goggles, face shield, chemical and oil resistant gloves, impervious apron if needed to avoid prolonged skin contact.

TLV (THRESHOLD LIMIT VALUE): 5mg/m³ as oil mist in air over an 8 hour daily exposure (ACGIH)

9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, pale amber liquid
Odor: Mild petroleum
Odor threshold: Data currently unavailable
Product pH: N/A
Freezing point: N/A
Boiling point: N/D
Flash point: >400°F COC
Evaporation rate: <0.01 (nButyl Acetate=1)
Flammability: Data currently unavailable
Upper/lower flammability limits: LEL: 0.9% UEL: 7.0%
Vapor pressure: <0.01 mm Hg
Vapor density: >1 (AIR = 1)
Relative density: 0.87 (Water=1)
Solubility: Negligible
Partition coefficient (n-octanol/water): Information not available
Auto-ignition temperature: Data currently unavailable
Decomposition temperature: Data currently unavailable
Viscosity: 200 - 220 SUS @ 100°F

10 - STABILITY AND REACTIVITY

Chemical stability: Material is stable under normal conditions.

Possibility of hazardous reactions: Hazardous polymerization will not occur.

Conditions to avoid: Avoid heating above flash point temperatures, sparks, open flames and other ignition sources.

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition products: Material does not decompose at ambient temperatures. Oxides of carbon, phosphorus, sulfur, zinc upon combustion.

11 - TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Inhalation: Yes
Ingestion: Yes
Skin: Yes
Eye: Yes

Potential Symptoms of exposure:

Inhalation: May cause irritation of respiratory tract. Avoid breathing vapors or mist of this product.
Ingestion: Do not ingest. Small amounts (a tablespoonful) swallowed during normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause injury.
Skin: Minimally toxic under normal use. May be mildly irritating with prolonged and/or repeated skin contact.
Eye: Direct contact with eyes may cause irritation.

Toxicological data: No data available.

NTP, IARC or OSHA carcinogen: None of the constituents of this product have been identified as possible or proven carcinogens by NTP, IARC, or OSHA.

12 - ECOLOGICAL INFORMATION

Ecotoxicity: May cause long-term adverse effects in the aquatic environment.

Persistence and degradability: Not available

Bioaccumulative potential: Has the potential to bioaccumulate in aquatic organisms.

Mobility in soil: Data not available.

Other adverse effects: None known.

13 - DISPOSAL CONSIDERATIONS

Waste disposal method: Dispose of in accordance with federal, state and local regulations.

14 - TRANSPORT INFORMATION

DOT Shipping: Not regulated by the U.S. Department of Transportation as a hazardous material.

15 - REGULATORY INFORMATION

Sara III (Superfund Amendment and Reauthorization Act of 1986) 40 CFR Part 372 and 40 CFR Part 355

Sections 302, 304 and 40 CFR Part 355 – Extremely Hazardous Substances:

Component	%	RQ (lbs.)	TPQ (lbs.)	CAS#
NONE	-	-	-	-

Sections 311, 312 and 40 CFR Part 355 – Hazard Categories:

ACUTE(IMMEDIATE HEALTH HAZARD):	YES	FIRE HAZARD:	YES
CHRONIC (DELATED HEALTH HAZARD):	NO	REACTIVE HAZARD:	NO
SUDDEN PRESSURE RELEASE:	NO		

Sections 313 and 40 CFR Part 372 – Toxic Chemicals:

Component	%	CAS#
NONE	-	-

CERCLA (Comprehensive Environmental Response, Compensation and Liability Act)

Section 102 and 40 CFR Part 302 – Hazardous Substances:

Component	%	RQ (lbs.)	CAS#
NONE	-	-	-

CLEAN WATER ACT

Under section 311 (b) (4) of this act, contamination of surface waters by petroleum products must be reported immediately to the National Response Center. SECTION 311 (b) (4) DOES APPLY TO QUADROIL HP-4

California Proposition 65: None of the ingredients are listed.

TSCA (Toxic Substances Control Act): All components of this formula are listed in the TSCA inventory.

16 - OTHER INFORMATION

Preparation Date: July 21, 2014

Revision Date: June 12, 2017

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