PETRA MANUALSHIFT™ FLUID
SAFETY DATA SHEET

Section 1. Product & Company Identification

1.1 Product Identifier

Product Name	: Petra ManualSHIFT™ Fluid
Product Number(s)	: 56032, 56064, 56016G

1.2 Company Identification: Details of the supplier of the Safety Data Sheet

Company Name	: Petra Automotive Products, Inc.
Company Address	11085 Regency Green Dr. Cypress, TX 77429 281.977.7400
Emergency Telephone Number	: Business Hours: 214.280.3438 // After Hours: 844.912.6663

Section 2. Hazard(s) Identification

Classification	Not classified as hazardous according to 29 CFR 1910.1200 (2012).
Hazards not otherwise classified	Not Applicable

Section 3. Composition/Information On Ingredients

Components	CAS Number	Amount
Highly refined mineral oil (C15 - C50)	Mixture	70 - 99 % Weight

Section 4. First Aid Measures

Description of First Aid Measures

Eye Contact No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with water.

Skin Contact No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

Ingestion No specific first aid measures are required. Do not induce vomiting. As a precaution, get medical advice.

Inhalation No specific first aid measures are required. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

Most important symptoms and effects, both acute and delayed.

IMMEDIATE HEALTH EFFECTS

Eye Contact Not expected to cause prolonged or significant eye irritation.

Skin Contact Contact with the skin is not expected to cause prolonged or significant irritation. Contact with the skin is not expected to cause an allergic skin response. Not expected to be harmful to internal organs if absorbed through the skin.

Ingestion Not expected to be harmful if swallowed.

Inhalation Not expected to be harmful if inhaled. Contains a petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit. Symptoms of respiratory irritation may include coughing and difficulty breathing.

DELAYED OR OTHER HEALTH EFFECTS Not classified

Indication of any immediate medical attention and special treatment needed Not Applicable

Section 5. Fire Fighting Measures

Extinguishing Media Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

PROTECTION OF FIRE FIGHTERS:

Fire Fighting Instructions This material will burn although it is not easily ignited. See Section 7 for proper handling and storage. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained 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 material undergoes combustion.

Section 6. Accidental Release Measures

Protective Measures Eliminate all sources of ignition in vicinity of spilled material.

Spill Management Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

Reporting Report spills to local authorities and/or the U.S. Coast Guard's National Response Center at (800)424-8802 as appropriate or required.

Section 7: Handling and Storage

General Handling Information Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

Precautionary Measures Keep out of the reach of children.

Static Hazard Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures.

Container Warnings: Container 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/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers 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 reconditioner or disposed of properly.

Section 8. Exposure Controls/Personal Protection

Container Warnings Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the workplace when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

Engineering Controls Use in a well-ventilated area

PERSONAL PROTECTIVE EQUIPMENT

Eye/Face Protection No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

Skin Protection No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances in the workplace. Suggested materials for protective gloves include: 4H (PE/EVAL), Nitrile Rubber, Silver Shield, Viton.

Respiratory Protection No respiratory protection is normally required.
If user operations generate an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge. Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

PERSONAL PROTECTIVE EQUIPMENT

Component	Agency	TWA	STEL	TWA	Ceiling	Notation
Highly refined mineral oil (C15 - C50)	OSHA Z-1	5 mg/m3	- -	- -	- -	- -
Highly refined mineral oil (C15 - C50)	ACGIH	5 mg/m3	10 mg/m3	- -	- -	- -

*Consult local authorities for appropriate values.

Section 9. Physical and Chemical Properties

Attention: The data below are typical values and do not constitute a specification

Color	Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.
Physical State	Liquid
Odor	Petroleum odor
Odor Threshold	No Data Available
pH	Not Applicable
Vapor Pressure:	<0.01 mmHg @ 37.8 °C (100 °F)
Vapor Density (Air = 1):	>1
Initial Boiling Point:	315°C (599°F) (Estimated)
Solubility:	Soluble in hydrocarbons; insoluble in water
Freezing Point:	Not Applicable
Melting Point:	No Data Available
Density:	0.88 kg/l @ 15°C (59°F) (Typical)
Viscosity:	7.0 mm2/s @ 100°C (212°F)
Evaporation Rate	No Data Available
Decomposition temperature	No Data Available
Octanol/Water Partition Coefficient	No Data Available

FLAMMABLE PROPERTIES

Flammability (solid, gas)	No Data Available
Flashpoint:	(Cleveland Open Cup) 200 °C (392 °F) Typical
Autoignition	No data available
Flammability (Explosive) Limits (% by volume in air)	Lower: Not Applicable; Upper: Not Applicable

Section 10. Stability and Reactivity

Reactivity	May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
Chemical Stability	This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Incompatibility With Other Materials	Not applicable
Hazardous Decomposition Products	None known (None expected)
Hazardous Polymerization	Hazardous polymerization will not occur.

Section 11. Toxicological Information

INFORMATION ON TOXICOLOGICAL EFFECTS

Serious Eye Damage/Irritation	The eye irritation hazard is based on evaluation of data for product components.
Skin Corrosion/Irritation	The skin irritation hazard is based on evaluation of data for product components..
Skin Sensitization	The skin sensitization hazard is based on evaluation of data for product components.
Acute Dermal Toxicity	The acute dermal toxicity hazard is based on evaluation of data for product components.
Acute Oral Toxicity	The acute oral toxicity hazard is based on evaluation of data for product components.
Acute Inhalation Toxicity	The acute inhalation toxicity hazard is based on evaluation of data for product components.
Acute Toxicity Estimate	Not Determined.
Germ Cell Mutagenicity	The hazard evaluation is based on data for components or a similar material.
Carcinogenicity	The hazard evaluation is based on data for components or a similar material.
Reproductive Toxicity	The hazard evaluation is based on data for components or a similar material.
Specific Target Organ Toxicity - Single Exposure	The hazard evaluation is based on data for components or a similar material.
Specific Target Organ Toxicity - Repeated Exposure	The hazard evaluation is based on data for components or a similar material.

During use in engines, contamination of oil with low levels of cancer-causing combustion products occurs. Used motor oils have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if the oil is thoroughly removed by washing with soap and water.

This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe 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 Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B).

These oils have not been classified by the American Conference of Governmental Industrial Hygienists (ACGIH) as: confirmed human carcinogen (A1), suspected human carcinogen (A2), or confirmed animal carcinogen with unknown relevance to humans (A3).

Section 12. Ecological information

Ecotoxicity	This material is not expected to be harmful to aquatic organisms. The product has not been tested. The statement has been derived from the properties of the individual components.
Mobility	No Data Available.
Persistence and Degradability	This material is not expected to be readily biodegradable. The biodegradability of this material is based on an evaluation of data for the components or a similar material. The product has not been tested. The statement has been derived from the properties of the individual components.
Potential to Bioaccumulate	Bioconcentration Factor: No data available. Octanol/Water Partition Coefficient: No data available

Section 13. Disposal Considerations

Use material for its intended purpose or recycle if possible. Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

Section 14. Transport Information

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT Shipping Description NOT REGULATED AS A HAZARDOUS MATERIAL UNDER 49 CFR

IMO/IMDG Shipping Description NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER THE IMDG CODE

ICAO/IATA Shipping Description NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER ICAO

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: Not applicable

Section 15. Regulatory Information

EPCRA 311/312 CATEGORIES

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

REGULATORY LISTS SEARCHED

01-1=IARC Group 1
01-2A=IARC Group 2A
01-2B=IARC Group 2B
02=NTP Carcinogen
03=EPCRA 313
04=CA Proposition 65
05=MA RTK
06=NJ RTK
07=PA RTK

*No components of this material were found on the regulatory lists above.

CHEMICAL INVENTORIES

All components comply with the following chemical inventory requirements: AICS (Australia), DSL (Canada), EINECS (European Union), ENCS (Japan), KECI (Korea), PICCS (Philippines), TSCA (United States).

NEW JERSEY RTK CLASSIFICATION

Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows: PETROLEUM OIL

Section 16. Other Information

NFPA RATINGS:	Health: 0	Flammability: 1	Reactivity: 0
HMIS RATINGS:	Health: 0	Flammability: 1	Reactivity: 0

(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, *- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

Revision Date: April 8, 2024

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT

TLV - Threshold Limit Value
TWA - Time Weighted Average
STEL - Short-term Exposure Limit
PEL - Permissible Exposure Limit
GHS - Globally Harmonized System
API - American Petroleum Institute
SDS - Safety Data Sheet
NCEL - New Chemical Exposure Limit
EPA - Environmental Protection Agency
CAS - Chemical Abstract Service Number
SCBA - Self-Contained Breathing Apparatus
IMO/IMDG - International Maritime Dangerous Goods Code
HMIS - Hazardous Materials Information System
NFPA - National Fire Protection Association (USA)
DOT - Department of Transportation (USA)
NTP - National Toxicology Program (USA)
IARC - International Agency for Research on Cancer
OSHA - Occupational Safety and Health Administration

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available after the date hereof may suggest modifications of the information of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make their determination of the suitability of the material for his particular purpose.

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