PETRA DIESEL MAX DOC
PN 1008, 100832
Safety Data Sheet

Version 1.0

Section 1. Product & Company Identification

1.1. Product identifier

Product name : Petra Diesel Max DOC

Product number(s) : 1008, 100832

Chemical name : Mixture

1.2. Recommended use and restriction on use

Recommended use : LUBE ADDITIVE

Restrictions on use: : Not determined.

1.3. Company identification: Details of the supplier of the safety data sheet

Company name : Petra Automotive Products, Inc.

Company address
11085 Regency Green Dr.
Cypress, Texas 77429
281-977-7400

Emergency telephone number: : (800) 424-9300

FOR TRANSPORT EMERGENCY CALL CHEMTREC

Section 2. Hazard(s) Identification

2.1. Hazard classification

Health Hazards

Serious Eye Damage/Eye Irritation : Category 2B

Unknown toxicity

Acute toxicity, oral : 0.0 %

Acute toxicity, dermal : 0.0 %

Acute toxicity, inhalation, vapor : 88.6 %

Acute toxicity, inhalation, dust or mist : 66.9 %

2.2. Label Elements

Hazard Symbol

Signal Word : Warning

Hazard Statement : Causes eye irritation.

2.3. Precautionary Statement:

Prevention : Wash thoroughly after handling. Avoid release to the environment.

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 advice/attention. Collect spillage.

Disposal : Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

2.4. Other hazards

Other hazards which do not result in GHS classification: : None identified

Section 3. Composition/Information On Ingredients

Chemical name	CAS number	Percent by Weight
Zinc alkyldithiophosphate	68649-42-3	1-5%
Alkaryl amine	36878-20-3	1-5%
Butanedioic acid ((4,5-dihydro-5-thioxo-1,3,4-thiadiazol-2-yl) thio-bis	126104-53-8	5 - 10%
Calcium sulfonate	70024-69-0	1-5%
Mineral oil	64742-52-5	50-90%
Alkylated phenol	121158-58-5	0.1 - 0.5%
Diphenylamine	122-39-4	0.1 - 0.5%

The mineral oil contained in this material may be described by one or more of the following CAS Nos.: 64742-54-7, 64742-65-0, 64742- 55-8, and 64742-56-9.

Trade secret information: : A specific chemical identity and/or percentage of composition has been withheld as a trade secret.

Section 4. First Aid Measures

Ingestion : Rinse mouth. Call a POISON CENTER/doctor if you feel unwell.

Inhalation : Remove exposed person to fresh air if adverse effects are observed.

Skin Contact : Take off contaminated clothing and wash before re-use. Wash with soap and water. If skin irritation occurs, get medical attention. Launder contam inated clothing before reuse.

Eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Most important symptoms/effects, acute and delayed

Symptoms : See section 11.

Indication of immediate medical attention and special treatment needed

Treatment : Treat symptomatically

Section 5. Fire Fighting Measures

General Fire Hazards : No unusual fire or explosion hazards noted.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: : CO_2, Dry chemical or Foam. Water can be used to cool and protect exposed material.

Unsuitable extinguishing media: : Not determined.

Specific hazards arising from the chemical : When heated, hazardous gases may be released including: sulfur dioxide. See section 10 for additional information.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: : No data available.

Special protective equipment for fire-fighters : Wear full protective firegear including self-containing breathing apparatus operated in the positive pressure mode with full facepiece, coat, pants, gloves and boots.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures : Personal Protective Equipment must be worn, see Personal Protection Section for PPE recommendations.

Methods and material for containment and cleaning up : Dike far ahead of larger spill for later recovery and disposal. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material. Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements or confined areas.

Environmental Precautions : Avoid release to the environment. Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

Section 7. Handling And Storage

Precautions for safe handling : Keep container closed when not in use and use with adequate ventilation. Open container in a well ventilated area. Avoid breathing vapors. Avoid contact with eyes. Observe good industrial hygiene practices. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid environmental contamination.

Maximum Handling Temperature : Not determined.

Conditions for safe storage, including any incompatibilities : Odorous and toxic fumes may form from the decomposition of this product if stored at temperatures in excess of 113 deg F (45 deg C) for extended periods of time or if heat sources in excess of 250 deg F (121 deg C) are used. Store away from incompatible materials. See section 10 for incompatible materials.

Maximum Storage Temperature : Not determined.

Section 8. Exposure Controls/Personal Protection

8.1. Control Parameters: Occupational Exposure Limits

Chemical Name	Type	Exposure Limit Values	Source
Mineral oil - Inhalable fraction	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (02 2012)
Mineral oil - Mist	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
Mineral oil - Mist.	STEL	10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
Mineral oil - Mist.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Mineral oil - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (03 2014)
Mineral oil - Mist.	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
Mineral oil - Mist.	STEL	10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
Mineral oil - Mist.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Mineral oil - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (03 2014)
Mineral oil - Mist.	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
Mineral oil - Mist.	STEL	10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
Mineral oil	Ceil_Time	1,800 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
Mineral oil	REL	350 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
Mineral oil - Mist.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Diphenylamine	TWA	10 mg/m3	US. ACGIH Threshold Limit Values (02 2012)
Diphenylamine	REL	10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)

8.1. Control Parameters: (Cont.)

Appropriate engineering controls : Material should be handled in enclosed vessels and equipment, in which case general (mechanical) room ventilation should be sufficient. Local exhaust ventilation should be used at points where dust, mist, vapors or gases can escape into the room air. No special requirements under ordinary conditions of use and with adequate ventilation.

Individual protection measures, such as personal protective equipment

General information : Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory and eye protection may be needed in special circumstances, such as poorly ventilated spaces, heating, evaporation of liquids from large surfaces, spraying of mists, mechanical generation of dusts, drying of solids, etc.

Eye/face protection : If contact is likely, safety glasses with side shields are recommended

Skin Protection

Hand Protection : Use nitrile or neoprene gloves. Use good industrial hygiene practices. In case of skin contact, wash hands and arms with soap and water. Chemical resistant gloves Gloves should always be inspected before each use and discarded if they show tears, pinholes, or signs of wear.

Other : No data available.

Respiratory Protection : Use respirator with an organic vapor cartridge if exposure limit is exceeded. A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator. Under normal use conditions, respirator is not usually required. Use appropriate respiratory protection if exposure to dust particles, mist or vapors is likely. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites.

Hygiene measures : Observe good industrial hygiene practices.

Section 9. Physical And Chemical Properties

Appearance

Physical state : liquid

Form : Liquid

Color : Dark Brown

Odor : Characteristic

Odor threshold : No data available.

pH : No data available.

Freezing point : No data available.

Boiling Point : No data available.

Flash Point : 200 °C (Pensky-Martens Closed Cup)

Evaporation rate : No data available.

Flammability (solid, gas) : No data available.

Section 9. Physical And Chemical Properties (Cont.)

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%)	: No data available
Flammability limit - lower (%)	: No data available
Explosive limit - upper (%)	: No data available
Explosive limit - lower (%)	: No data available
Vapor pressure	: No data available
Vapor density	: No data available
Relative density	: 0.8860 (15.6 °C)
Solubility(ies)	
Solubility in water	: Slightly Soluble
Solubility (other)	: No data available.
Partition coefficient (n-octanol/water)	: No data available.
Auto-ignition temperature	: No data available.
Decomposition temperature	: No data available.
Viscosity	: 13 mm2/s (100 °C)

Section 10. Stability and reactivity

Reactivity	: No data available.
Chemical Stability	: Material is stable under normal conditions.
Possibility of hazardous reactions	: Will not occur.
Conditions to avoid	: Excessive heat.
Incompatible Materials	: Contact with acids. Strong oxidizing agents.
Hazardous Decomposition Products	: Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. Hydrogen sulfide and alkyl mercaptans and sulfides may also be released. Thermal decomposition or combustion may generate smoke, carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides, mercaptans, sulfides, including hydrogen sulfide and other products of incomplete combustion. Thermal decompositon may generate phosphorus oxides and other phosphorus containing compounds. Thermal decompositon may generate zinc oxides and other zinc containing compounds.

Section 11. Toxicological Information

11.1. ACUTE EXPOSURE

Oral Toxicity	: The LD50 in rats is > 5000mg/kg based on data from components or similar materials.
Eye Irritation	: This product can cause mild eye irritation with short term contact.
Skin Irritation	: Not expected to be a primary skin irritant based on data from components or similar materials. Prolonged exposure or repeated skin contact as from clothing with material may cause dermatitis. Symptoms may include redness, edema, drying, and cracking of the skin.
Inhalation Sensitization	: No data available to indicate product or components may be respiratory sensitizers. Oil mist may be respiratory irritant.

Section 11. Toxicological Information (Cont.)

11.2. CHRONIC EXPOSURE

Chronic Toxicity : No data available to indicate product or components present at greater than 1% are chronic health hazards.

Carcinogenicity : This material is formulated with mineral oils which are considered to be severely refined and not considered to be carcinogenic under IARC.

Mutagenicity : No data available to indicate product or components present at greater than 0.1% are mutagenic or genotoxic.

Reproductive Toxicity : No data available to indicate product or components present at greater than 0.1% that may cause reproductive toxicity.

Teratogenicity : No data available to indicate product or components present at greater than 0.1% may cause birth defects.

Other : No other health hazards known.

Exposure Limits : Mineral Oil: OSHA PEL of 5 mg/m^3 (mist), ACGIH STEL of 10 mg/m^3 (mist). Zinc dialkyl dithiophosphate: Oral LD50 (rat) 1830 mg/kg; Dermal LD50 (rabbit) >3160 mg/kg

Section 12. Ecological information

Ecotoxicological data have not been determined specifically for this product. Information given is based on knowledge of the components and similar products.

Ecotoxicity : Poorly soluble mixture. Not expected to be harmful to aquatic life. May cause physical fouling of aquatic organisms. Consequently, this material should be kept out of sewage and drainage systems and all bodies of water.

Environmental Fate : This material is not expected to be readily biodegradable.

Section 13. Disposal Considerations

Disposal instructions : Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Dispose of packaging or containers in accordance with local, regional, national and international regulations. Empty container contains product residue which may exhibit hazards of product.

Contaminated Packaging : Container packaging may exhibit hazards.

Section 14. Transport Information

US Department of Transportation Classification : This material is not subject to DOT regulations under 49 CFR Parts 171-180

Oil : This material is an "Oil" under 49 CFR part 130 when transported in a container of 3500 gallon capacity or greater.

Section 15. Regulatory Information

15.1. US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Chemical Identity	Reportable quantity
Diphenylamine	De minimis concentration: 0.1%

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

15.1. US Federal Regulations (Cont.)

Immediate (Acute) Health Hazards

SARA 302 Extremely Hazardous Substance

SARA 304 Emergency Release Notification

SARA 311/312 Hazardous Chemical

SARA 313 (TRI Reporting)

This product may contain chemical(s) regulated under the Superfund Amendments and Reauthorization Act (SARA). Additional information can be received upon request.

15.2. US State Regulations

US. California Proposition 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

Ethyl acrylate 3.00 ppm

Section 16. Other information, including date of preparation or last revision

HMIS Hazard ID:

Health	1
Flammability	1
Physical Hazards	0

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

NFPA Hazard ID:

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

Issue Date : 10/10/16

Version # : 1.0

Source of information : Internal company data and other publically available resources.

Further Information : Contact supplier (see Section 1)

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