MSDS

Material Safety Data Sheet

Petra Universal Synthetic CVT Fluid

1. Product and Company Identification

Product Name Universal Synthetic CVT Fluid	**MSDS Code Number** 53003 and 53032
Trade Name & Synonyms Automatic Transmission Fluid, CVT Fluid	**Date of Last Revision** 07/16/2013
Chemical Name Petroleum hydrocarbon	**Company Identification** Petra Oil Company
C.A.S. Number Mixture	**Address** 6100 West by Northwest Blvd #190 Houston, Texas 77040
Grades or Minor Variant Identities	**Information Telephone Number** 713-856-5700
	Help Desk Telephone Number (888) petra61 8 AM – 4:30 PM
Product Use (for Canada) Automotive Transmission Fluid - CVT	**Emergency Telephone Number** CHEMTREC: (800) 424-9300

2. Composition/Information on Ingredients

Ingredients	C.A.S. Number	%
Lubricant Base Oil(Petroleum)	Mixture	>80
Proprietary Ingredients	Mixture	<20

The base oil for this product can be a mixture of any of the following highly refined petroleum streams:

64741-88-4,64742-01-4,64742-54-7,64742-65-0,64742-47-8,8042-47-5,64742-46-7,64742-52-5,64742-54-7,72623-84-8,72623-85-9,72623-86-0,72623-87-1,8042-47-5,178603-63-9,178603-64-0,178603-65-1,178603-66-2, 68037-01-4, 151006-63-2, 445411-73-4

OSHA Regulatory Status

This product is **NOT HAZARDOUS** according to OSHA 29 CFR 1910.1200

3. Hazards Identification

Emergency Overview

Highly refined mineral oils and additives. May be dyed, liquid at room temperature, slight hydrocarbon. Not expected to be a health hazard when used under normal conditions.

Routes of Exposure	Signs and Symptoms	Severity (Mild, Moderate, Severe)	Potential Health Effects	Target Organ(s)

Eye	redness, stinging	Mild	slight irritation	No Data
Skin	redness, dryness, black pustules and spots	Mild	Prolonged contact without proper cleaning can clog the pores resulting in disorders such as oil acne / folliculitis.	No Data
Inhalation	not expected under normal conditions			No Data
Ingestion	nausea, vomiting, diarrhea	Mild	Low toxicity if swallowed	No Data
Other				

Medical Conditions Aggravated by Exposure

Pre-existing skin conditions may be aggravated by exposure

Carcinogenicity (OSHA, IARC, NTP)

Product contains no materials currently classified as carcinogenic per the Annual Report of the National Toxicology Program (NTP), OSHA Hazard Communication Standard, or the International Agency for Research on Cancer (IARC, Groups 1,2A, or 2B)

Potential Environmental Effects

Not classified as dangerous for the environment

4. First Aid Measures

Routes of Exposure	First Aid Instructions	Immediate Medical Attention	Delayed Effects
Eye	Flush with clear water for at least 15 minutes or until any irritation subsides.	If irritation occurs, get medical assistance.	none identified
Skin	Remove contaminated clothing and wash before reuse. Wash exposed areas with soap and water.	If irritation occurs, get medical assistance.	none identified
Inhalation	Move the person to fresh air if necessary.	Seek medical assistance if discomfort occurs.	none identified
Ingestion	Do NOT induce vomiting unless directed by medical personnel.	Seek immediate medical attention if irritation, nausea, dizziness, or unconsciousness occurs.	none identified
Other			

Note to Physicians (Treatment, Testing, and Monitoring)

In general, emesis induction is unnecessary in high viscosity, low volatility products such as oils and greases.

5. Fire Fighting Measures

Flashpoint >340°F **Method** COC	**Flammable (Explosive) Limits in Air** **LEL** ND **UEL** ND	**Autoignition Temperature** °F ND	**Other**

Flame Propagation or Burning Rate (for solids)	**Properties Contributing to Fire Intensity**	**Flammability Classification** Non-flammable

Extinguishing Media Water fog, 'alcohol foam', dry chemical, carbon dioxide (CO2)	**Extinguishing Media to Avoid** Direct water streams	**Reactions to Extinguishing Media** Material will float and can be re-ignited on surface of water.

Protection and Procedures for Firefighters

Evacuate area. Firefighters should use standard protective equipment and self-contained breathing apparatus (SCBA). Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

Unusual Fire and Explosion Hazards

Material may ignite when preheated.

6. Accidental Release Measures

Spill/Leak Clean-up Procedures and Equipment

Immediately contact emergency personnel. Wear proper protective equipment. Stop source of leak or spill if at all possible. For small spills, use absorbent (such as clay sand, or other suitable material), scoop up and store in a closed container, dispose of properly. For large spills, dike spilled material and contain to prevent runoff from reaching waterways. Place spilled material in an appropriate closed container to be disposed of properly.

Special Instructions

Reporting Requirements

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. The National Response Center (NRC) can be reached at (800) 424-8802.

7. Handling and Storage

Handling Practices and Warnings

Avoid contact with skin and clothing. Avoid contact with eyes. Use only with adequate ventilation. Avoid breathing vapors or mist. Wash thoroughly after handling.

Storage Practices and Warnings

Keep container tightly closed, in a cool, well ventilated area. Empty containers may contain harmful, flammable / combustible or explosive residue or vapors. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards.

8. Exposure Control/Personal Protection

Ventilation	**Other Engineering Controls**	
Routes of Entry:	**Personal Protective Equipment (PPE) for Normal Use:**	**PPE for Emergencies:**
Eye/Face	No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.	
Skin	No special protective clothing is normally required. Precautions should be taken to avoid skin contact as a good safety practice.	
Inhalation	No respiratory protection is normally required.	

General Hygiene Considerations and Work Practices

Always observe good safety practices and good personal hygiene measures, such as washing after handling the material and before eating, drinking, and / or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

Other Protective Measures and Equipment

No other special requirements under ordinary conditions of use and with adequate ventilation.

9. Physical and Chemical Properties

Appearance	**Odor**
Clear, green liquid	Slight Hydrocarbon odor

Normal Physical State:				
■ **Liquid**	□ **Gas**	**Boiling Point**	ND	°F
□ **Solid**	□ _____ **(Other)**	**Melting Point**	ND	°F
		Freezing Point	ND	°F

Specific Gravity or Density (H2O = 1)	**Solubility in Water**	**pH**
0.855	Negligible	N/A
Vapor Pressure (mm Hg.)	**Vapor Density (AIR = 1)**	**Evaporation Rate (Butyl Acetate = 1)**
ND	ND	ND

Other

10. Stability and Reactivity

Incompatibility (Materials to Avoid)

Avoid contact with strong oxidizing agents.

Hazardous Products Produced During Decomposition

Carbon Monoxide, Carbon Dioxide, and other unidentified organic compounds may be formed.

Hazardous Polymerization?	❑ May Occur ■ Will Not Occur	**Conditions to Avoid**	Excessive heat, high energy sources of ignition, open flames.
Stability?	■ Stable ❑ Unstable	**Conditions to Avoid**	

11. Toxicological Information

Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic Effects, Reproductive Effects, or Structure Activity Data

This product contains petroleum base oils which may be severely refined. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1900.1200). 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).

ACUTE EXPOSURE

Eye Irritation	Practically non-irritating, based on data from components or similar materials.
Respiratory Irritation	No data available to indicate product or components may be respiratory sensitizers.
Skin Irritation	Practically non-irritating, based on data from components or similar materials. Prolonged or repeated contact as from clothing wet with material may cause dermatitis.
Dermal Toxicity (rabbits)	LD50 >5 g/kg; Practically non-toxic.
Inhalation Toxicity (rats)	Not applicable. Harmful concentrations of mists and/or vapors are unlikely to be encountered through any customary or reasonably foreseeable handling, use, or misuse of this product.
Oral Toxicity (rats)	LD50 >5 g/kg; Practically non-toxic.
Dermal Sensitization	No data available to indicate product or components may cause skin sensitization.
Inhalation Sensitization	No data available to indicate product or components may be respiratory sensitizers.

CHRONIC EXPOSURE

Although there is no specific test data on all the material components, the mineral base oil would not be expected to exhibit carcinogenic potential based on what is known of the toxicity of mineral base oils in general. The base oil in this product is severely hydro-treated by all hydro-processing route. By this refining history would be showed no evidence of carcinogenic potential.

12. Ecological Information

Toxicity, Environmental Fate, Physical/Chemical Data, or Other Data Supporting Environmental Hazard Statements

The information provided is based on data available for the components of the material and similar materials.

This material may cause long-term adverse effects in the aquatic environment.

The base oil component has a low solubility and floats, and is expected to migrate from water to land.

13. Disposal Considerations

Regulations

If discarded as supplied, material does not meet RCRA characteristic definition of ignitability, corrosivity, or reactivity and is not listed in 40 CFR 261.23. Under RCRA, the applicable hazardous waste classification must be evaluated prior to disposal of this material.

Properties (Physical/Chemical) Affecting Disposal

NOTE: State or local requirements may differ from federal regulations. Processing or using this product may make the information here inappropriate. Waste generators are responsible for waste classification, transport, and disposal.

14. Transport Information

Not classified as hazardous for transport (DOT, TDG, IMO/IMDG, IATA/ICAO)

15. Regulatory Information

Federal Regulations (OSHA, TSCA, CERCLA, FIFRA, EPCRA, CAA, CWA, SDWA, CPSA, DEA, FDA/USDA, etc.)

TSCA (Toxic Substance Control Act) Status

TSCA (United States) The intentional ingredients of this product are listed.

CERCLA RQ - 40 CFR 302.4

None

SARA 302 Components - 40 CFR 355 Appendix A

None

Section 311/312 hazard Class - 40 CFR 370.2

Immediate ( ) Delayed ( ) Fire ( ) Reactive ( ) Sudden release of Pressure ( )

SARA 313 Components - 40 CFR 372.65

None

State Regulations

California Proposition 65

This product may contain the following chemical(s) known to the state of California to cause cancer and/or birth defects based on maximum impurity levels of components: <0.001 ppm Benzene, CAS no. 71-43-2; <0.001 ppm Toluene, CAS no. 108-88-3; <0.005 ppm Ethyl Benzene, CAS no. 100-41-4; <0.005 ppm Naphthalene, CAS no. 91-20-3; <0.05 ppm Cadmium; <0.05 ppm Lead; <0.1 ppm Arsenic; <0.1 ppm 2-Naphthlyamine, CAS no. 91-59-8; <0.0003% Trimethyl phosphate, CAS no. 512-56-1

New Jersey RTK Label Information

None

Pennsylvania RTK Label Information

None

International Regulations

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

Other

16. Other Information

Label Text, Hazard Rating Systems, Key Legend, or Other

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

(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protective 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).

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 subsequent to the date hereof may suggest modifications 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 his own determination of the suitability of the material for his particular purpose.