

Prod.Name: AC DELCO AUTO-TRAK II FLUID
Manufacturer: Petro-Canada Lubricants Inc.
HMCS ID: 343326
SUC: 04 - Metal Working Fluids and Lubricants

MATERIAL SAFETY DATA SHEET

Revision: 30.Sep.2010
Effective: 30.Sep.2010
Print Date: 05.Apr.2013
Page: 1 of 7

1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT INFORMATION

Product Name: AC DELCO AUTO-TRAK II FLUID

Recommended Use:

Automatic Transmission Fluid developed primarily for transfer cases on GM four wheel drive vehicles but suitable also for other vehicle makes and as a hydraulic and power steering fluid for mobil equipment.

External Keys:

10-4017 Distributable Material (Part #)
12378508 Distributable Material (Part #)
773494 Distributable Material (Part #)
88900402 Distributable Material (Part #)
AUTO-TRAK II Primary Tradename - Distributable Material

MANUFACTURER INFORMATION

Manufacturer: Petro-Canada Lubricants Inc.

Address:

2310 Lakeshore Road West CAN Ontario L5J 1K2 Mississauga Mailing

Communication Lines:

Phone 403-296-3000 Information (Suncor Energy)
Phone 613-996-6666 Emergency (Canutec)
Internet www.online.petro-canada.ca/ MSDS available

2 INGREDIENT INFORMATION

Synonyms:

RDL3239B, GM12378508, GM10953626, 88900402

FORMULATION

Ingredients:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Prefix</u>	<u>Value</u>	<u>Unit</u>	<u>Exposure Limits</u>
SEVERELY HYDROTREATED AND HYDROCRACKED BASE OIL (PETROLEUM)	989987-94-6	<	100	%Wt	No

Comment:

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

The base oil may be a mixture of the following CAS#s: 8042-47-5, 64742-46-7 64742-55-8, 72623-84-8, 72623-85-9, 72623-86-0, 72623-87-1, 178603-64-0, 64742-47-8 178603-65-1, 64742-53-6, 178603-66-2, 64742-54-7, 445411-73-4

3 HAZARDS IDENTIFICATION

Hazards Overview:

Emergency overview: No specific hazard.

Specific Hazards:

Routes of entry: Dermal contact. Eye contact. Inhalation. Ingestion.

Specific Hazards (Routes Of Exposure):

<u>Exposure Routes</u>	<u>Exposure Duration</u>	<u>Observation</u>
Inhalation	Acute	No known significant effects or critical hazards.
Ingestion	Acute	No known significant effects or critical hazards.
Skin Contact	Acute	Slightly irritating to the skin.
Eye Contact	Acute	Slightly irritating to the eyes.

Medical Conditions Aggravated By Exposure:

Repeated or prolonged contact with spray or mist may produce chronic eye irritation and severe skin irritation. Repeated skin exposure

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Revision: 30.Sep.2010
Effective: 30.Sep.2010
Print Date: 05.Apr.2013
Page: 2 of 7

3 HAZARDS IDENTIFICATION

Medical Conditions Aggravated By Exposure:

can produce local skin destruction or dermatitis.

Additional Health Hazard Data:

Chronic effects: No known significant effects or critical hazards.

Chronic toxicity

Conclusion/Summary: Not available.

4 FIRST AID MEASURES

First Aid Procedures:

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

First Aid By::

Inhalation	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
Eye Contact	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
Ingestion	Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Notes To Physician:

No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5 FIRE FIGHTING MEASURES

Product Flammability:

FLAMMABILITY: May be combustible at high temperature.

Flash Point:

=	212	°C	Cleveland Open Cup
=	413.6	°F	Cleveland Open Cup

Explosive Limits:

Upper Explosive Limit (UEL)	Not Available
Lower Explosive Limit (LEL)	Not Available

Autoignition Temperature:

=	228	°C
=	442.4	°F

Extinguishing Media:

Suitable: Use an extinguishing agent suitable for the surrounding fire.

Non Suitable Extinguishing Media:

Not suitable: None known

Fire and Explosion Hazards:

Products of combustion: Carbon oxides (CO, CO₂), nitrogen oxides (NO_x), sulphur oxides (SO_x), aldehydes, smoke and irritating vapours as products of incomplete combustion.

Special remarks on fire hazards: Low fire hazard. This material must be heated before ignition will occur.

Special remarks on explosion hazards: Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of

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Revision: 30.Sep.2010
Effective: 30.Sep.2010
Print Date: 05.Apr.2013
Page: 3 of 7

5 FIRE FIGHTING MEASURES

Fire and Explosion Hazards:

ignition.

Special Fire Fighting Procedures:

Special exposure hazards: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Comment:

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6 ACCIDENTAL RELEASE MEASURES

PRECAUTIONS IN CASE OF ACCIDENTAL RELEASE

Personal Precautions:

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Environmental Precautions:

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

SPILL OR LEAK PROCEDURES

Recovery:

Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

Disposal:

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal should be in accordance with applicable regional, national and local laws and regulations.

7 HANDLING AND STORAGE

HANDLING

Safe Handling Procedures:

Put on appropriate personal protective equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

STORAGE

Storage Conditions:

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

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Revision: 30.Sep.2010
Effective: 30.Sep.2010
Print Date: 05.Apr.2013
Page: 4 of 7

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures:

Engineering measures: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits. Ensure that eyewash stations and safety showers are close to the workstation location.

EXPOSURE LIMITS

Comment:

OTHER EXPOSURE LIMITS: Consult local, state, provincial or territory authorities for acceptable exposure limits.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment (PPE):

Respiratory Protection	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: organic vapor filter
Hand Protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Recommended: neoprene, nitrile, polyvinyl alcohol (PVA), Viton.
Eye Protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
Skin Protection	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Hygiene Measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

Special Precautions:

Recommended monitoring procedures: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Color: Blue

Odor: No odour or slight petroleum oil like.

Comment:

Physical State: Liquid

APPEARANCE: Viscous liquid.

PHYSICAL PROPERTIES

pH Value:

Concentrate Not Available

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Revision: 30.Sep.2010
Effective: 30.Sep.2010
Print Date: 05.Apr.2013
Page: 5 of 7

9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL PROPERTIES

Changes of State:

Boiling Point Not Available
Pourpoint = - 48 °C
Pourpoint = -54 °F
Melting/Freezing Point Not Available

Vapor Pressure:

Not Available

Vapor Density:

Not Available

Evaporation Rate:

Not Available

Density:

Density = 0.8508 kg/l = 15 °C 59 °F

Specific Gravity:

= 0.8508 = 15 °C 59 °F

Solubility:

In Water Insoluble

Viscosity:

Viscosity = 34.41 = 40 °C cSt @ 104 °F
Viscosity = 7.33 = 100 °C cSt @ 212 °FC, VI=187

Total Amount Of:

Volatile Not Available

Additional Chemical and Physical Data:

ODOR THRESHOLD Not Available

10 STABILITY AND REACTIVITY

STABILITY INFORMATION

Stability Under Normal Conditions: Stable

Incompatible Materials:

Reactive with oxidizing agents, reducing agents and acids.

Hazardous Polymerization:

Under normal conditions of storage and use, hazardous polymerization will not occur.

Comment:

STABILITY: The product is stable .

HAZARDOUS DECOMPOSITION

Reactions:

<u>Type of Reaction</u>	<u>Reaction Products</u>
Decomposition	Hazardous decomposition products: May release CO _x , NO _x , SO _x , methacrylate monomers, aldehydes, smoke and irritating vapours when heated to decomposition.

11 TOXICOLOGICAL INFORMATION

SCIENTIFIC OBSERVATIONS

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Revision: 30.Sep.2010
Effective: 30.Sep.2010
Print Date: 05.Apr.2013
Page: 6 of 7

11 TOXICOLOGICAL INFORMATION

SCIENTIFIC OBSERVATIONS

TOXICOLOGICAL EFFECTS

Product Data:

<u>Investigated Effect</u>	<u>Route of Administration</u>	<u>Comment Observed</u>
Sensitization	Skin Contact	This product is not expected to be a skin sensitizer, based on the available data and the known hazards of the components.
Sensitization	Inhalation	This product is not expected to be a respiratory tract sensitizer, based on the available data and the known hazards of the components.

LETHAL LIMIT VALUES

Product Data:

<u>Exposure Routes</u>	<u>Type</u>	<u>Prefix</u>	<u>Value</u>	<u>Unit</u>	<u>Species</u>	<u>Comment</u>
oral	LD50	>	5000	mg/kg	Rat	
dermal	LD50	>	2000	mg/kg	Rabbit	
Inhalation	LC50	>	5.2	mg/l	Rat	4 hours

CLASSIFICATION OF INGREDIENTS

Carcinogenicity:

Not listed as carcinogenic by OSHA, NTP or IARC.

Conclusion/Summary: Not available.

Mixture of severely hydrotreated and hydrocracked base oil (petroleum). : ACGIH: A4; IARC: --; EPA: ---; NIOSH: ---; NTP: ---; OSHA: ---

U.S. Federal regulations/ State regulations: California Prop. 65: This product contains an ingredient(s) for which the State of California has found to cause cancer.

Mutagenicity:

No known significant effects or critical hazards.

Conclusion/Summary: Not available.

Reproductive Effects:

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

Conclusion/Summary: Not available.

U.S. Federal regulations/ State regulations: California Prop. 65: This product contains an ingredient(s) for which the State of California has found to cause birth defects or other reproductive harm.

Allergen Or Sensitivity:

Sensitizer

Conclusion/Summary: Not available.

12 ECOLOGICAL INFORMATION

ENVIRONMENTAL IMPACT

Comment:

No known significant effects or critical hazards.

Biodegradability Conclusion/Summary: Not available.

Other adverse effects: No known significant effects or critical hazards.

ECOTOXICITY

Comment:

Aquatic ecotoxicity Conclusion/Summary: Not available.

13 DISPOSAL CONSIDERATIONS

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MATERIAL SAFETY DATA SHEET

Revision: 30.Sep.2010
Effective: 30.Sep.2010
Print Date: 05.Apr.2013
Page: 7 of 7

13 DISPOSAL CONSIDERATIONS

Waste Disposal Information:

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal should be in accordance with applicable regional, national and local laws and regulations.

14 TRANSPORT INFORMATION

DOT UN Code:

Not regulated

Comment:

SPECIAL PROVISIONS FOR TRANSPORT: Not applicable.

15 REGULATORY INFORMATION

LABELLING

Hazard Codes:

HMIS Reactivity	0
HMIS Health	1
HMIS Flammability	1
NFPA Flammability	1
NFPA Health	1
NFPA Reactivity	0
HMIS PPE	B

NATIONAL REGULATIONS

SARA 311/312: No

SARA 313: No

Immediate Health: No

Delayed Health: No

Fire: No

Sudden Pressure Release: No

Reactive: No

Other Regulation:

OSHA/HCS status

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

All components are listed or exempted.

United States inventory (TSCA 8b)

STATE/LOCAL REGULATIONS

Comment:

U.S. Federal regulations/ State regulations: California Prop. 65: This product contains an ingredient(s) for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute.

16 OTHER INFORMATION

Comments:

ADDITIONAL EXPOSURE LIMITS: GM Occupational Exposure Guidelines (OEG) and State-TWA's were provided by General Motors.