



MATERIAL SAFETY DATA SHEET

TOYOTA ATF TYPE T-IV

MSDS No.:TCI-10227

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MSDS Revision Date (dd/mm/yyyy): 22/02/2012

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product identifier : TOYOTA ATF TYPE T-IV

Trade Name : Toyota ATF Type T-IV

Chemical Name : See ingredients listed in section 2.

Product Use : Automotive - Lubricant

Part No : 08886-81015, C0BBA-T4ATF-0D, C0BBB-T4ATF-0D, C0BBC-T4ATF-0D, C0BBD-T4ATF-0D, C0BBA-4ATF-0B, C0BBB-T4ATF-0B, C0BBC-T4ATF-0B, C0BBD-T4ATF-0B, C0009-000T4-12, C0BBA-000T4-L, C0BBB-000T4-0L, C0BBC-000T4-0L, C0BBD-000T4-0L

Chemical response card (CRC) number			N3	
RESPONSE TEAM PPE				
WHMIS				
TDG				

Manufacturer's name and address:

Imperial Oil
111 St. Clair Ave West
Toronto, ON, Canada
M5W 1K3
Phone: (416) 968 4441

Supplier's / Distributor's name and Address:

TOYOTA CANADA INC.
1 Toyota Place
Toronto, ON, Canada
M1H 1H9
Phone: (416) 438 6320

Emergency Tel : CANUTEC 1-613-996-8666

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS #	% (weight)	OSHA PEL		ACGIH TLV	
			PEL	STEL	TWA	STEL
Base oils	Propriet-ary	90.0 - 100.0	5 mg/m3	N/Av	5 mg/m3	N/Av

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Red coloured oily liquid. Petroleum odour. May cause temporary irritation. Harmful if swallowed.

Routes of Entry: *Inhalation:* YES *Skin Absorption:* NO *Skin & Eyes:* YES *Ingestion:* YES

Signs and symptoms of short-term (acute) exposure

Inhalation: Negligible hazard at normal temperatures (up to 38 degrees C). May cause mild respiratory irritation at higher temperatures.

Skin: May cause mild skin irritation on prolonged contact.

Eyes: Slightly irritating, but will not injure eye tissue.

Ingestion: Laxative effects. May cause gastrointestinal discomfort.

Potential acute health effects

Eyes: Low degree of toxicity. Mild eye irritation.

Skin: Low degree of toxicity. Prolonged or repeated contact with skin may cause irritation in some cases.

Inhalation: Low degree of toxicity. Elevated temperatures, or spray from mechanical action, may form vapours, mists or fumes which may be irritating to the eyes, nose, throat and lungs.

Ingestion: Low degree of toxicity. May cause abdominal discomfort, nausea or diarrhea.

Potential chronic health effects

: Overexposure to sprays or mists may cause chemical pneumonitis. Possible irritation, defatting or dermatitis (rash).

Target organs : Eyes. Skin.

Toxicological data : See Section 11.

Medical conditions aggravated by overexposure

: None reported by the manufacturer.

Other important hazards : Refer to Section 11 for carcinogenic status. Refer to Section 12 for environmental hazards.



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SECTION 4 - FIRST AID MEASURES

- Inhalation** : Move to fresh air. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing has stopped, give artificial respiration. Seek immediate medical attention/advice. Provide supportive treatment, keeping victim warm and quiet.
- Skin** : Remove contaminated clothing. Wash affected areas with soap and water. If irritation persists, seek prompt medical attention. Launder clothing before reuse.
- Eyes** : Flush eyes thoroughly with running water for at least 20 minutes, holding eyelids open to ensure complete flushing. Seek immediate medical attention/advice.
- Ingestion** : Do NOT induce vomiting. Call a physician or Poison Control Centre immediately. Seek immediate medical attention/advice. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.
- First aid notes to physician** : Treat symptomatically.

SECTION 5 - FIRE FIGHTING MEASURES

- Flash point** : 185 °C **Flash point (Method)** : COC ASTM D92
- Auto-ignition Temperature** : Not available.
- Upper flammable limit (% by vol.)** : Not available. **Lower flammable limit (% by vol.)** : Not available.
- Unusual fire and explosion hazards** : Not flammable under normal conditions of use. Toxic fumes, gases or vapours may evolve on burning.
- Means of extinction** : Dry chemical, alcohol foam, and indirect water spray or fog.
- Special fire-fighting procedures/equipment** : Keep containers cool until after the fire is out. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply or any natural waterway. Firefighters should wear full-face, self-contained breathing apparatus (MSHA / NIOSH approved or the equivalent) and impervious clothing. For small outdoor fires, which may easily be extinguished with a portable fire extinguisher, use of self-contained breathing apparatus may not be required.
- Conditions of flammability** : This product may be combustible at high temperatures. Not flammable under normal conditions of use.
- Sensitivity to mechanical impact/static discharge** : Not sensitive to static discharge or mechanical impact under normal conditions of use and handling.
- Hazardous combustion products** : Smoke, carbon monoxide, carbon dioxide and oxides of sulphur and phosphorus.
- Oxidizing properties** : None.
- OSHA Classification** : Combustible Liquid Class III B
- NFPA** : *Health:* 1 *Fire:* 1 *Instability:* 0 *Other Hazards:* None

SECTION 6 - ACCIDENTAL RELEASE MEASURES

- Spill response/cleanup** : Secure spill area, remove or minimize all sources of ignition, and maximize ventilation. Stop the spill at source if it is safe to do so. Deny entry to all unprotected individuals. Recover free liquid or cover with inert absorbent material and place into appropriate container for disposal.
- Personal precautions** : Wear suitable protective clothing (see Section 8).
- Environmental precautions** : If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.
- Prohibited materials** : Use non-flammable absorbent only.
- Special spill response procedures** : Contact appropriate local and provincial environmental authorities for assistance and/or reporting requirements.

SECTION 7 - HANDLING AND STORAGE

- General Hygiene Procedures** : Use normal hygiene practices. Wash hands thoroughly after using this product, and before eating, drinking or smoking.



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- Storage requirements** : Store in a cool, dry, well-ventilated area. Keep away from excessive heat, open flames, sparks and other possible sources of ignition. Do not store in unmarked containers or storage devices.
- Handling procedures** : Use with adequate ventilation. Avoid direct skin contact. Avoid contact with skin. Use proper bonding and grounding techniques when transferring liquid.
- Special provisions** : Readily available emergency fire, first aid and spill response equipment and/or measures are highly recommended. Containers of this material may still retain hazardous residues even when emptied. Do not cut, weld, drill or grind on or near this container.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ventilation and engineering measures

: General mechanical ventilation is sufficient for use with this product. Local ventilation is recommended if the product is misted or used in a confined space, or if the TLV is exceeded.

Physical protection

- Respiratory:** A respiratory protection program that meets CSA Z94.4-02 requirements must be followed whenever workplace conditions warrant use of a respirator.
- Eye:** Safety glasses with side shields should be used with this product. If splashing is anticipated, splash goggles and a faceshield are recommended.
- Hand:** Where contact is likely, impervious gloves are recommended. Do not wear rings, watches or jewelry that could entrap the material against the skin.
- Other:** Emergency showers and eyewash facilities should be nearby.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

- | | |
|---|---|
| Physical state : Liquid. | Odour : Petroleum hydrocarbon odour. |
| Odour threshold : Not available. | Appearance : clear red |
| Specific gravity : 0.85 @ 15 °C | Solubility in water : Negligible |
| Vapour pressure (mmHg @ 20 C / 68 F)
: <1.0 kPa @ 38 °C | Vapour density (Air = 1)
: Not available. |
| Boiling point : Not available. | Melting/Freezing point : Not available. |
| Evaporation rate (n-Butyl acetate = 1)
: < 1 (1=n-butylacetate) | pH : Not available. |
| Coefficient of water/oil distribution
: Not available. | Volatiles (% by weight) : Not available. |
| Molecular Weight : Not applicable. | Viscosity : Not available. |

SECTION 10 - REACTIVITY AND STABILITY DATA

- Stability and reactivity** : Stable under normal conditions.
- Hazardous polymerization** : Will not occur.
- Conditions to avoid** : Open flames, sparks, high heat and close proximity to incompatible substances.
- Hazardous decomposition products** : Similar to hazardous combustion products.
- Materials To Avoid And Incompatibility** : Strong oxidizing agents

SECTION 11 - TOXICOLOGICAL INFORMATION

<u>Ingredients</u>	LC50	LD50	
	<u>inh, rat</u>	<u>dermal, rabbit</u>	<u>oral, rat</u>
Base oils	N/Av	N/Av	N/Av

- Carcinogenic status** : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.
- Reproductive effects** : Not expected to have other reproductive effects.
- Teratogenicity** : Not expected to be a teratogen.
- Mutagenicity** : Not expected to be mutagenic in humans.
- Sensitization to material** : Not expected to be a sensitizer.
- Synergistic materials** : None known.
- Embryotoxicity** : Not expected to be embryotoxic.



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Irritancy of product : May be mildly irritating to eyes and skin.

Biological exposure indices : Not available.

Medical recommendations : Treat symptomatically.

Special remark other toxic effects : None.

SECTION 12 - ECOLOGICAL INFORMATION

Persistence : The manufacturer has not reported detailed studies on the environmental fate of the material. However, it is recommended not to allow the material to enter the environment.

Plant animal effects : The manufacturer has not reported any plant or animal effects.

Aquatic toxicity : The manufacturer has not reported any aquatic life effects.

Other Adverse Environmental Effects : None known.

SECTION 13 - DISPOSAL CONSIDERATIONS

Handling for Disposal : See Section 7 (Handling and Storage) for further details.

Methods of Disposal : Dispose of in accordance with federal, provincial and local hazardous waste laws.

Special consideration : If the material is unsuitable for recycling or reclamation, enclosed-controlled incineration is recommended unless otherwise prohibited.

SECTION 14 - TRANSPORTATION INFORMATION

Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label	Additional information
TDG	None	Not regulated.	Not regulated	-None-		None.
49CFR/DOT	None	Not regulated.	Not regulated	-None-		None.
ICAO/IATA	None	Not regulated.	Not regulated	-None-		None.
IMDG	None	Not regulated.	Not regulated	-None-		None.

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

SARA Section 313: This material is not subject to SARA notification requirements, since it does not contain any Toxic Chemical Constituents above de minimus concentrations.

US State Right to Know Laws:

California Proposition 65: To the best of our knowledge, this product does not contain any chemicals known to the State of California to cause cancer or reproductive harm.

Canadian Information:

Canadian WHMIS Classification: Not regulated.

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and this MSDS contains all the information required by the CPR.

SECTION 16 - OTHER INFORMATION

Terms & Definitions:

Please see the concluding page of the Material Safety Data Sheet.



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Disclaimer:

This Material Safety Data Sheet complies with Health Canada's Workplace Hazardous Materials Information System (WHMIS) and U.S. OSHA Hazard Communication Standard, 29 CFR §1910.1200. To the best of ICC or Toyota Canada's knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either expressed or implied are provided. The information contained herein relates only to the specific product. Contact the manufacturer for additional information.

Preparation Date (dd/mm/yyyy)

: 09/12/2005

MSDS Reviewed Date (dd/mm/yyyy)



: 22/02/2012

Revision No.

: 4

Revision Information

: (M)SDS sections updated
1. Product and Company Identification

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DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a MSDS. Some of these that are commonly used include the following:

GENERAL INFORMATION: CAS No. Chemical Abstract Service Number	FLAMMABILITY LIMITS IN AIR: Autoignition Temperature Minimum temperature required to initiate combustion in air with no other source of ignition LEL Lower Explosive Limit- lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source UEL Upper Explosive Limit - highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source TCC Tagliabue Closed Cup COC Cleveland Open Cup												
EXPOSURE LIMITS IN AIR: ACGIH American Conference on Governmental Industrial Hygienists TLV Threshold Limit Value OSHA U.S. Occupational Safety and Health Administration PEL Permissible Exposure Limit IDLH Immediately Dangerous to Life and Health	NFPA HAZARD RATINGS: <table border="0"> <tr> <td>0</td><td>Minimal Hazard</td> <td rowspan="4"> </td> </tr> <tr> <td>1</td><td>Slight Hazard</td> </tr> <tr> <td>2</td><td>Moderate Hazard</td> </tr> <tr> <td>3</td><td>Severe Hazard</td> </tr> <tr> <td>4</td><td>Extreme Hazard</td> <td></td> </tr> </table> W Water Reactive OX Oxidizer	0	Minimal Hazard		1	Slight Hazard	2	Moderate Hazard	3	Severe Hazard	4	Extreme Hazard	
0	Minimal Hazard												
1	Slight Hazard												
2	Moderate Hazard												
3	Severe Hazard												
4	Extreme Hazard												
FIRST AID MEASURES: CPR Cardiopulmonary resuscitation - method in which a person whose heart has stopped receives manual chest compressions and breathing to circulate blood and provide oxygen to the body.	TOXICOLOGICAL INFORMATION: LD50 Lethal Dose (solids & liquids) which kills 50% of the exposed animals LC50 Lethal concentration (gases) which kills 50% of the exposed animals ppm Concentration expressed in parts of material per million parts TDLo Lowest dose to cause a symptom TCLo Lowest concentration to cause a symptom LDlo, LClo Lowest dose (or concentration) to cause lethal or toxic effects IARC International Agency for Research on Cancer MSHA Mine Safety and Health Administration NIOSH National Institute for Occupational Safety and Health NTP National Toxicology Program RTECS Registry of Toxic Effects of Chemical Substances BCF Bioconcentration Factor TLm Median threshold limit log KOW or log KOC Coefficient of Oil/Water Distribution												
PERSONAL PROTECTION SYMBOLS: Safety Glasses Splash Goggles Face Shield & Eye Protection Gloves Boots Synthetic Apron Full Suit Dust Respirator Vapor Respirator Dust & Vapor Respirator Full Face Respirator Airline Hood/Mask <p>Note: the dotted circle indicates that this respiratory protective equipment is required for high concentrations or for large volume spills or releases of product.</p>	OTHER STANDARD ABBREVIATIONS: N/Av Not Available N/Ap Not Applicable NR No Results NE Not Established ND Not Determined ML Maximum Limit SCBA Self-Contained Breathing Apparatus REGULATORY INFORMATION: WHMIS Canadian Workplace Hazardous Material Information System DOT U.S. Department of Transportation TC Transport Canada EPA U.S. Environmental Protection Agency DSL Canadian Domestic Substance List NDSL Canadian Non-Domestic Substance List TSCA U.S. Toxic Substance Control Act TDG Transportation of Dangerous Goods Regulations 49 CFR Title 49 of US Code of Federal Regulations ICAO International Civil Aviation Organization IATA International Air Transport Association IMDG International Maritime Dangerous Goods Code												
NATIONAL FIRE PROTECTION ASSOCIATION: NFPA													