

November 3, 2020

To Whom It May Concern:

On October 9, 2020, Imperial Oil became aware of significant new data (SND), as defined by the Hazardous Products Regulations (HPR) in Section 5.12(1), which affects the WHMIS classification and/or changes the ways to protect against the hazards in the following list of products:

- BULLDOG ALL-WEATHER HYDRAULIC OIL 32
- DETROIT GENUINE PARTS TRANSMISSION FLUID SYNTHETIC SAE 75W-90
- MACK HYDRAULIC OIL PREMIUM MULTIGRADE ISO 32
- MACK HYDRAULIC OIL PREMIUM MULTIGRADE ISO 32
- MOBIL DELVAC 1 TRANSMISSION FLUID MBT 75W-90
- MOBIL DELVAC 1 TRANSMISSION FLUID MBT 75W-90
- MOBIL DTE 10 EXCEL 100
- MOBIL DTE 10 EXCEL 15
- MOBIL DTE 10 EXCEL 150
- MOBIL DTE 10 EXCEL 22
- MOBIL DTE 10 EXCEL 32
- MOBIL DTE 10 EXCEL 46
- MOBIL DTE 10 EXCEL 68

The Hazardous Products Regulations allow suppliers to provide a Safety Data Sheet (SDS) and Label that includes all information available at time of sale, with the exception of the significant new data, as long as the customer is provided, in writing, with the significant new data as required in Sections 5.12(2) & (4) of the HPR.

Listed below is the significant new data information:

**What is the change?**

The listed products are now classified for Reproductive Toxicity (fertility and developmental) Category 2.

**What is the basis for the change?**

As the result of new information for the ingredient identified with Accession #108464, HMIRA RN#11189 Filing Date 04-05-2017 the above products are now classified for Reproductive Toxicity (fertility and developmental).

**What is changed on the safety data sheet?**

Section 2 now states the product has a hazard classification for Reproductive Toxicity Category 2 and provides the corresponding hazard statement, and the HMIS Hazard ID includes the asterisk for a chronic effect. Section 3 adds the above hazard for the substance. Section 4 First Aid for inhalation and skin contact are updated to reflect the complete hazard. Section 7 Handling adds a warning to avoid all personal contact. Section 8 is updated to recommend use of chemical resistant gloves and clothing at all times when handling. Section 11 table states product contains a substance that may be a reproductive toxicant.

**What is changed on the label?**

Label now states that the above product is considered to be hazardous under HPR with additional classification for Reproductive Toxicity Category 2 (fertility and developmental).

Sincerely,

Brian Scammell  
Lubricants Manager



# SAFETY DATA SHEET

## SECTION 1 IDENTIFICATION

### PRODUCT

**Product Name:** MOBIL DELVAC 1 TRANSMISSION FLUID MBT 75W-90  
**Product Description:** Synthetic Base Stocks and Additives  
**SDS Number:** 22640  
**Product Code:** 201520508580  
**Intended Use:** Manual transmission fluid

### COMPANY IDENTIFICATION

**Supplier:** Imperial Oil Downstream  
P.O. Box 2480, Station M  
Calgary, ALBERTA T2P 3M9 Canada

|  |                |
|--|----------------|
| <b>24 Hour Emergency Telephone</b>           | 1-866-232-9563 |
| <b>Transportation Emergency Phone Number</b> | 1-866-232-9563 |
| <b>Product Technical Information</b>         | 1-800-268-3183 |
| <b>Supplier General Contact</b>              | 1-800-567-3776 |

## SECTION 2 HAZARD IDENTIFICATION

This material is considered to be NON-HAZARDOUS according to regulatory guidelines.

This product has been classified in accordance with hazard criteria of the Hazardous Products Regulations (HPR) SOR/2015-17 and the SDS contains all the information required by the HPR SOR/2015-17.

### Other hazard information:

**Health Hazards Not Otherwise Classified:** None as defined under HPR SOR/2015-17.

**Physical Hazards Not Otherwise Classified:** None as defined under HPR SOR/2015-17.

### PHYSICAL / CHEMICAL HAZARDS

No significant hazards.

### HEALTH HAZARDS

High-pressure injection under skin may cause serious damage. Excessive exposure may result in eye, skin, or respiratory irritation.



## ENVIRONMENTAL HAZARDS

Expected to be harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

**NFPA Hazard ID:** Health: 0 Flammability: 1 Reactivity: 0  
**HMIS Hazard ID:** Health: 0 Flammability: 1 Reactivity: 0

**NOTE:** This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

This material is defined as a mixture.

### Substance(s) or Complex Substance(s)

| Name  | CAS#         | Concentration* | GHS Hazard Codes  |
|---|--------------|----------------|---|
| 1,3,4-THIADIAZOLE-2(3H)-THIONE, 5-(TERT-DODECYLDITHIO)- | 73984-93-7   | 0.1 - < 1%     | H317, H402, H412  |
| ALKYL DITHIOPHOSPHATE                                   | Confidential | 0.1 - < 1%     | H361(D), H361(F), H400(M factor 1), H410(M factor 10)                   |
| AMINES, C12-14-TERT-ALKYL                               | 68955-53-3   | 0.1 - < 1%     | H302, H311, H317, H330(2), H314(1B), H400(M factor 1), H410(M factor 1) |
| DIISOTRIDECYL ADIPATE                                   | 26401-35-4   | 10 - < 20%     | None  |
| NAPHTHALENESULFONIC ACID, DINONYL-, CALCIUM SALT        | 57855-77-3   | 0.1 - < 1%     | H315, H319(2A), H317  |
| PHOSPHORIC ACID, 2-ETHYLHEXYL ESTER                     | 12645-31-7   | 0.1 - < 1%     | H314(1B)  |

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## SECTION 4 FIRST-AID MEASURES

### INHALATION

Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

### SKIN CONTACT

Wash contact areas with soap and water. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

### EYE CONTACT

Flush thoroughly with water. If irritation occurs, get medical assistance.

## INGESTION

First aid is normally not required. Seek medical attention if discomfort occurs.

## SECTION 5 FIRE-FIGHTING MEASURES

### EXTINGUISHING MEDIA

**Appropriate Extinguishing Media:** Use water fog, foam, dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish flames.

**Inappropriate Extinguishing Media:** Straight streams of water

### FIRE FIGHTING

**Fire Fighting Instructions:** Evacuate area. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

**Hazardous Combustion Products:** Aldehydes, Incomplete combustion products, Oxides of carbon, Smoke, Fume, Sulphur oxides

### FLAMMABILITY PROPERTIES

**Flash Point [Method]:** 223°C (433°F) [ASTM D-92]

**Flammable Limits (Approximate volume % in air):** LEL: N/D UEL: N/D

**Autoignition Temperature:** N/D

## SECTION 6 ACCIDENTAL RELEASE MEASURES

### NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

### PROTECTIVE MEASURES

Avoid contact with spilled material. See Section 5 for fire fighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.

### SPILL MANAGEMENT

**Land Spill:** Stop leak if you can do so without risk. Recover by pumping or with suitable absorbent.

**Water Spill:** Stop leak if you can do so without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction



and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

## ENVIRONMENTAL PRECAUTIONS

Large Spills: Dyke far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

## SECTION 7 HANDLING AND STORAGE

### HANDLING

Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electrical spark (ignition source). When the material is handled in bulk, an electrical spark could ignite any flammable vapors from liquids or residues that may be present (e.g., during switch-loading operations). Use proper bonding and/or earthing procedures. However, bonding and earthing may not eliminate the hazard from static accumulation. Consult local applicable standards for guidance. Additional references include American Petroleum Institute 2003 (Protection Against Ignitions Arising out of Static, Lightning and Stray Currents) or National Fire Protection Agency 77 (Recommended Practice on Static Electricity) or CENELEC CLC/TR 50404 (Electrostatics - Code of practice for the avoidance of hazards due to static electricity).

**Static Accumulator:** This material is a static accumulator.

### STORAGE

The type of container used to store the material may affect static accumulation and dissipation. Do not store in open or unlabelled containers. Keep away from incompatible materials.

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE LIMIT VALUES

| Substance Name        | Form | Limit/Standard             | Note | Source   |
|-----------------------|------|----------------------------|------|----------|
| DIISOTRIDECYL ADIPATE |      | TWA<br>5 mg/m <sup>3</sup> |      | Supplier |

**Exposure limits/standards for materials that can be formed when handling this product:** When mists/aerosols can occur the following is recommended: 5 mg/m<sup>3</sup> - ACGIH TLV (inhalable fraction).

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

### ENGINEERING CONTROLS

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:  
No special requirements under ordinary conditions of use and with adequate ventilation.

### PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use

with this material, as provided below, is based upon intended, normal usage.

**Respiratory Protection:** If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

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

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapour warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

**Hand Protection:** Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

No protection is ordinarily required under normal conditions of use.

**Eye Protection:** If contact is likely, safety glasses with side shields are recommended.

**Skin and Body Protection:** Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:

No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

**Specific Hygiene Measures:** Always observe 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. Practise good housekeeping.

## ENVIRONMENTAL CONTROLS

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.

|                  |   |
|------------------|---|
| <b>SECTION 9</b> | <b>PHYSICAL AND CHEMICAL PROPERTIES</b> |
|------------------|---|

**Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.**

## GENERAL INFORMATION

**Physical State:** Liquid  
**Colour:** Yellow  
**Odour:** Characteristic  
**Odour Threshold:** N/D

## IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

**Relative Density (at 15 °C):** 0.84  
**Flammability (Solid, Gas):** N/A

**Flash Point [Method]:** 223°C (433°F) [ASTM D-92]  
**Flammable Limits (Approximate volume % in air):** LEL: N/D UEL: N/D  
**Autoignition Temperature:** N/D  
**Boiling Point / Range:** N/D  
**Decomposition Temperature:** N/D  
**Vapour Density (Air = 1):** N/D  
**Vapour Pressure:** [N/D at 20°C]  
**Evaporation Rate (n-butyl acetate = 1):** N/D  
**pH:** N/A  
**Log Pow (n-Octanol/Water Partition Coefficient):** N/D  
**Solubility in Water:** Negligible  
**Viscosity:** 96.5 cSt (96.5 mm<sup>2</sup>/sec) at 40°C [DIN 51562]  
**Oxidizing Properties:** See Hazards Identification Section.

**OTHER INFORMATION**

**Freezing Point:** N/D  
**Melting Point:** N/A

|                   |                                 |
|-------------------|---------------------------------|
| <b>SECTION 10</b> | <b>STABILITY AND REACTIVITY</b> |
|-------------------|---------------------------------|

**STABILITY:** Material is stable under normal conditions.

**CONDITIONS TO AVOID:** Excessive heat. High energy sources of ignition.

**MATERIALS TO AVOID:** Strong Acids, Strong Bases, Strong oxidizers

**HAZARDOUS DECOMPOSITION PRODUCTS:** Material does not decompose at ambient temperatures.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Hazardous polymerization will not occur.

|                   |                                  |
|-------------------|----------------------------------|
| <b>SECTION 11</b> | <b>TOXICOLOGICAL INFORMATION</b> |
|-------------------|----------------------------------|

**INFORMATION ON TOXICOLOGICAL EFFECTS**

| <b>Hazard Class</b>  | <b>Conclusion / Remarks</b>   |
|--|---|
| <b>Inhalation</b>  |   |
| Acute Toxicity: No end point data for material.                | Minimally Toxic. Based on assessment of the components.                                       |
| Irritation: No end point data for material.                    | Negligible hazard at ambient/normal handling temperatures.                                    |
| <b>Ingestion</b>   |   |
| Acute Toxicity: No end point data for material.                | Minimally Toxic. Based on assessment of the components.                                       |
| <b>Skin</b>  |   |
| Acute Toxicity: No end point data for material.                | Minimally Toxic. Based on assessment of the components.                                       |
| Skin Corrosion/Irritation: No end point data for material.     | Negligible irritation to skin at ambient temperatures. Based on assessment of the components. |
| <b>Eye</b>   |   |
| Serious Eye Damage/Irritation: No end point data for material. | May cause mild, short-lasting discomfort to eyes. Based on assessment of the components.      |

|  |  |
|--|--|
| <b>Sensitisation</b>   |  |
| Respiratory Sensitization: No end point data for material.     | Not expected to be a respiratory sensitizer.   |
| Skin Sensitization: No end point data for material.            | Not expected to be a skin sensitizer. Based on assessment of the components.                                   |
| <b>Aspiration:</b> Data available.                             | Not expected to be an aspiration hazard. Based on physico-chemical properties of the material.                 |
| <b>Germ Cell Mutagenicity:</b> No end point data for material. | Not expected to be a germ cell mutagen. Based on assessment of the components.                                 |
| <b>Carcinogenicity:</b> No end point data for material.        | Not expected to cause cancer. Based on assessment of the components.   |
| <b>Reproductive Toxicity:</b> No end point data for material.  | Not expected to be a reproductive toxicant. Based on assessment of the components.                             |
| <b>Lactation:</b> No end point data for material.              | Not expected to cause harm to breast-fed children.   |
| <b>Specific Target Organ Toxicity (STOT)</b>                   |  |
| Single Exposure: No end point data for material.               | Not expected to cause organ damage from a single exposure.   |
| Repeated Exposure: No end point data for material.             | Not expected to cause organ damage from prolonged or repeated exposure. Based on assessment of the components. |

## TOXICITY FOR SUBSTANCES

| NAME                      | ACUTE TOXICITY  |
|---------------------------|---|
| AMINES, C12-14-TERT-ALKYL | Dermal Lethality: LD 50 251 mg/kg (Rat); Inhalation Lethality: 4 hour(s) LC50 1.19 mg/l (Vapour) (Rat); Oral Lethality: LD 50 612 mg/kg (Rat) |

## OTHER INFORMATION

### For the product itself:

Repeated and/or prolonged exposure may cause irritation to the skin, eyes, or respiratory tract. Component concentrations in this formulation would not be expected to cause skin sensitization, based on tests of the components, this formulation, or similar formulations.

### Contains:

Synthetic base oils: Not expected to cause significant health effects under conditions of normal use, based on laboratory studies with the same or similar materials. Not mutagenic or genotoxic. Not sensitising in test animals and humans.

**CMR Status:** None.

### --REGULATORY LISTS SEARCHED--

1 = IARC 1  
 2 = IARC 2A

3 = IARC 2B  
 4 = ACGIH ALL

5 = ACGIH A1  
 6 = ACGIH A2

|                   |                               |
|-------------------|-------------------------------|
| <b>SECTION 12</b> | <b>ECOLOGICAL INFORMATION</b> |
|-------------------|-------------------------------|

The information given is based on data for the material, components of the material, or for similar materials, through the application of bridging principals.



### ECOTOXICITY

Material -- Expected to be harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

### MOBILITY

Base oil component -- Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.

## SECTION 13 DISPOSAL CONSIDERATIONS

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

### DISPOSAL RECOMMENDATIONS

Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products.

### REGULATORY DISPOSAL INFORMATION

**Empty Container Warning** Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. **DO NOT PRESSURISE, 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.**

## SECTION 14 TRANSPORT INFORMATION

**LAND (TDG):** Not Regulated for Land Transport

**LAND (DOT):** Not Regulated for Land Transport

**SEA (IMDG):** Not Regulated for Sea Transport according to IMDG-Code

**Marine Pollutant:** No

**AIR (IATA):** Not Regulated for Air Transport

## SECTION 15 REGULATORY INFORMATION

**CEPA:** Contains one or more components that are on the NDSL and have been notified under CEPA.

**Listed or exempt from listing/notification on the following chemical inventories (May contain substance(s))**



Product Name: MOBIL DELVAC 1 TRANSMISSION FLUID MBT 75W-90  
Revision Date: 22 Oct 2020  
Page 10 of 11

**subject to notification to the EPA Active TSCA inventory prior to import to USA):** AIIC, IECSC, KECI, PICCS, TCSI, TSCA

**Special Cases:**

| Inventory | Status             |
|-----------|--------------------|
| ISHL      | Not determined     |
| NDSL      | Restrictions Apply |

**The Following Ingredients are Cited on the Lists Below:** None.

--REGULATORY LISTS SEARCHED--

1 = TSCA 4                      3 = TSCA 5e                      5 = TSCA 12b  
2 = TSCA 5a2                    4 = TSCA 6                        6 = NPRI

|                   |                          |
|-------------------|--------------------------|
| <b>SECTION 16</b> | <b>OTHER INFORMATION</b> |
|-------------------|--------------------------|

N/D = Not determined, N/A = Not applicable

**KEY TO THE H-CODES CONTAINED IN SECTION 3 OF THIS DOCUMENT (for information only):**

- H302: Harmful if swallowed; Acute Tox Oral, Cat 4
- H311: Toxic in contact with skin; Acute Tox Dermal, Cat 3
- H314(1B): Causes severe skin burns and eye damage; Skin Corr/Irritation, Cat 1B
- H315: Causes skin irritation; Skin Corr/Irritation, Cat 2
- H317: May cause allergic skin reaction; Skin Sensitisation, Cat 1
- H319(2A): Causes serious eye irritation; Serious Eye Damage/Irr, Cat 2A
- H330(2): Fatal if inhaled; Acute Tox Inh, Cat 2
- H400: Very toxic to aquatic life; Acute Env Tox, Cat 1
- H402: Harmful to aquatic life; Acute Env Tox, Cat 3
- H410: Very toxic to aquatic life with long lasting effects; Chronic Env Tox, Cat 1
- H412: Harmful to aquatic life with long lasting effects; Chronic Env Tox, Cat 3

**THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:**

- Composition: Component table information was modified.
- GHS Health Classification information was deleted.
- GHS Health Hazards information was deleted.
- GHS Health Symbol information was deleted.
- GHS Precautionary Statements - Disposal information was deleted.
- GHS Precautionary Statements - Prevention information was deleted.
- GHS Precautionary Statements - Response information was deleted.
- GHS Signal Word information was deleted.
- Hazard Identification: CA - Hazards Statement - GHS information was added.
- Hazard Identification: CA - Hazards Statement - GHS information was deleted.
- Hazard Identification: HMIS Health information was modified.
- Hazard Identification: NFPA Health information was modified.
- Section 02: GHS Contains for LABEL\_GHS codes information was deleted.
- Section 04: First Aid Skin information was modified.
- Section 07: Handling and Storage-Handling information was modified.



Product Name: MOBIL DELVAC 1 TRANSMISSION FLUID MBT 75W-90  
Revision Date: 22 Oct 2020  
Page 11 of 11

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Section 08: Exposure Limits Table information was added.  
Section 08: Hand Protection information was modified.  
Section 08: Skin and Body Protection information was modified.  
Section 09: Boiling Point C(F) information was modified.  
Section 09: Colour information was modified.  
Section 09: Flammable Limits - LEL information was modified.  
Section 09: Flammable Limits -UEL information was modified.  
Section 09: Flash Point C(F) information was modified.  
Section 09: n-Octanol/Water Partition Coefficient information was modified.  
Section 09: Pour Point C(F) information was deleted.  
Section 09: Relative Density information was modified.  
Section 09: Vapour Pressure information was modified.  
Section 09 Viscosity information was deleted.  
Section 09 Viscosity information was modified.  
Section 10: Materials to Avoid information was modified.  
Section 11: Other Health Effects information was modified.  
Section 11: Skin Sensitization Conclusion information was modified.  
Section 13: Disposal Considerations - Disposal Recommendations information was modified.  
Section 15: CEPA information was modified.  
Section 15: National Chemical Inventory Listing information was modified.  
Section 15: Special Cases Table information was modified.  
Section 16: Copyright - Imperial Oil information was modified.  
Section 16: Disclaimer - IOL information was modified.  
Section 16: HCode Key information was modified.  
Section 16: MSN,MAT ID information was modified.

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