SAFETY DATA SHEET
Mineral Seal Oil

Section 1. Identification

GHS product identifier : Mineral Seal Oil
Chemical name : Distillates (petroleum), hydrotreated middle
Synonyms : Gasoil - unspecified; Distillates, petroleum, hydrotreated middle; Distillates, petroleum, straight run middle, hydrotreated; Distillates (petroleum), hydro-treated middle; Paraffin oil
Code : 19540
MSDS # : 19540

Supplier's details : CITGO Petroleum Corporation
Lemont Refinery
135th Street & New Avenue
Lemont, IL  60439
custsol@citgo.com

Emergency telephone number (with hours of operation) : Technical Contact: (630) 257-4112
(800) 967-7601
(8am - 4pm CT M-F)
Medical Emergency: (832) 486-4700
CHEMTREC Emergency: (800) 424-9300
(United States Only)

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture : ASPIRATION HAZARD - Category 1

GHS label elements
Hazard pictograms : 

Signal word : Danger
Hazard statements : May be fatal if swallowed and enters airways.
Precautionary statements
Prevention : Not applicable.
Response : IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.
Storage : Store locked up.
Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazard not otherwise classified : Prolonged or repeated contact may dry skin and cause irritation.

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Date of previous issue : 1/18/2018
Version : 3.01
Section 3. Composition/information on ingredients

Substance/mixture: Substance
Chemical name: Distillates (petroleum), hydrotreated middle
Other means of identification: Gasoil - unspecified; Distillates, petroleum, hydrotreated middle; Distillates, petroleum, straight run middle, hydrotreated; Distillates (petroleum), hydro-treated middle; Paraffin oil

CAS number/other identifiers
- CAS number: 64742-46-7

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>%</th>
<th>CAS number</th>
</tr>
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<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated middle</td>
<td>&gt;99</td>
<td>64742-46-7</td>
</tr>
</tbody>
</table>

* = Various, ** = Mixture, *** = Proprietary

Any concentration shown as a range is to protect confidentiality or is due to process variation.

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.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact: Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact: No known significant effects or critical hazards.
Inhalation: No known significant effects or critical hazards.
Skin contact: Defatting to the skin. May cause skin dryness and irritation.
Ingestion: May be fatal if swallowed and enters airways.

Over-exposure signs/symptoms

Eye contact: No specific data.
Inhalation: No specific data.
Section 4. First aid measures

Skin contact: Adverse symptoms may include the following:
- irritation
- dryness
- cracking

Ingestion: Adverse symptoms may include the following:
- nausea or vomiting

Notes to physician:
If ingested, this material presents a significant aspiration and chemical pneumonitis hazard. Induction of emesis is not recommended. Consider activated charcoal and/or gastric lavage. If patient is obtunded, protect the airway by cuffed endotracheal intubation or by placement of the body in a Trendelenburg and left lateral decubitus position.

Specific treatments:
Treat symptomatically and supportively.

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.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media
Suitable extinguishing media:
Use caution when applying carbon dioxide in confined spaces.
- SMALL FIRE: Steam, CO₂, dry chemical or inert gas (e.g., nitrogen).
- LARGE FIRE: Use foam, water fog or water spray. Water fog and spray are effective in cooling containers and adjacent structures. However, water can cause frothing and/or may not extinguish the fire. Water can be used to cool the external walls of vessels to prevent excessive pressure, ignition or explosion.

Unsuitable extinguishing media:
Do not use water jet.

Specific hazards arising from the chemical:
In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products:
Decomposition products may include the following materials:
- carbon dioxide
- carbon monoxide

Special protective actions for fire-fighters:
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.

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.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:
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.

For emergency responders:
If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

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).
Section 6. Accidental release measures

Methods and materials for containment and cleaning up

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 spillage 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. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures: Put on appropriate personal protective equipment (see Section 8). Do not swallow. 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.

Advice on general occupational hygiene: 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. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities: 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 (see Section 10) and food and drink. Store locked up. 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. See Section 10 for incompatible materials before handling or use.

Bulk Storage Conditions: Maintain all storage tanks in accordance with applicable regulations. Use necessary controls to monitor tank inventories. Inspect all storage tanks on a periodic basis. Test tanks and associated piping for tightness. Maintain the automatic leak detection devices to assure proper working condition.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated middle</td>
<td>NIOSH REL (United States, 10/2013). TWA: 5 mg/m³ 10 hours. Form: Mist STEL: 10 mg/m³ 15 minutes. Form: Mist ACGIH TLV (United States). TWA: 5 mg/m³ 8 hours. Form: Oil mist, mineral TWA: 5 mg/m³, (Mineral oil) 8 hours. STEL: 10 mg/m³ 15 minutes. Form: Oil mist, mineral OSHA PEL (United States). TWA: 5 mg/m³ 8 hours. Form: Oil mist, mineral TWA: 5 mg/m³, (Mineral oil) 8 hours.</td>
</tr>
</tbody>
</table>

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Section 8. Exposure controls/personal protection

Appropriate engineering controls: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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, vapor controls, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

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. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety glasses equipped with side shields are recommended as minimum protection in industrial settings. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. 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, gases or dusts. If inhalation hazards exist, a full-face respirator may be required instead.

Skin protection

Hand protection: Avoid skin contact with liquid. Chemical-resistant gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. Leather gloves are not protective for liquid contact.

Body 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.

Other skin protection: Avoid skin contact with liquid. Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Leather boots are not protective for liquid contact.

Respiratory protection: Avoid inhalation of gases, vapors, mists or dusts. Use a properly fitted, air-purifying or supplied-air 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.

Section 9. Physical and chemical properties

Appearance

Physical state: Liquid.
Color: Clear and bright.
Odor: No odor or slight petroleum oil like.
PH: Not available.
Melting point: -40 to 6°C (-40 to 42.8°F)
Boiling point: 172 to 379°C (341.6 to 714.2°F)
Flash point: Closed cup: 121.11°C (250°F) [Pensky-Martens.]
Lower and upper explosive (flammable) limits: Not available.
Vapor pressure: Not available.
Vapor density: Not available.
Relative density: 0.85
Section 9. Physical and chemical properties

- **Density lbs/gal**: 7.07 lbs/gal
- **Density gm/cm³**: Not available.
- **Gravity, °API**: Estimated 35 @ 60 F
- **Solubility**: Insoluble in the following materials: cold water.
- **Flow time (ISO 2431)**: Not available.
- **Viscosity**: Kinematic (40°C (104°F)): 0.015 cm²/s (1.5 cSt)
  - Estimated 7 SUS @104 F

Section 10. Stability and reactivity

**Reactivity**: Not expected to be Explosive, Self-Reactive, Self-Heating, or an Organic Peroxide under US GHS Definition(s).

**Chemical stability**: The product is stable.

**Possibility of hazardous reactions**: Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid**: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not store with strong oxidizing agents.

**Incompatible materials**: Reactive or incompatible with the following materials: oxidizing materials

**Hazardous decomposition products**: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

**Acute toxicity**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
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<tr>
<td>Distillates (petroleum), hydrotreated middle</td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>&gt;2000 mg/kg</td>
<td>-</td>
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<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>&gt;5000 mg/kg</td>
<td>-</td>
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</table>

**Conclusion/Summary**: No additional information.

**Irritation/Corrosion**

- **Skin**: No additional information.
- **Eyes**: No additional information.
- **Respiratory**: No additional information.

**Sensitization**

Not available.

- **Skin**: No additional information.
- **Respiratory**: No additional information.

**Mutagenicity**

Not available.

**Conclusion/Summary**: No additional information.

**Carcinogenicity**

Not available.
Section 11. Toxicological information

**Conclusion/Summary**
No additional information.

**Reproductive toxicity**
Not available.

**Teratogenicity**
Not available.

**Conclusion/Summary**
No additional information.

**Specific target organ toxicity (single exposure)**
Not available.

**Specific target organ toxicity (repeated exposure)**
Not available.

**Aspiration hazard**

<table>
<thead>
<tr>
<th>Name</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated middle</td>
<td>ASPIRATION HAZARD - Category 1</td>
</tr>
</tbody>
</table>

**Information on the likely routes of exposure**
Routes of entry anticipated: Oral, Dermal, Inhalation.

**Potential acute health effects**

**Eye contact**
No known significant effects or critical hazards.

**Inhalation**
No known significant effects or critical hazards.

**Skin contact**
Defatting to the skin. May cause skin dryness and irritation.

**Ingestion**
May be fatal if swallowed and enters airways.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Eye contact**
No specific data.

**Inhalation**
No specific data.

**Skin contact**
Adverse symptoms may include the following:
irritation
dryness
cracking

**Ingestion**
Adverse symptoms may include the following:
nausea or vomiting

**Delayed and immediate effects and also chronic effects from short and long term exposure**

**Short term exposure**

**Potential immediate effects**
Not available.

**Potential delayed effects**
Not available.

**Long term exposure**

**Potential immediate effects**
Not available.

**Potential delayed effects**
Not available.

**Potential chronic health effects**
Not available.

**General**
No known significant effects or critical hazards.

**Carcinogenicity**
No known significant effects or critical hazards.

**Mutagenicity**
No known significant effects or critical hazards.

**Teratogenicity**
No known significant effects or critical hazards.
Section 11. Toxicological information

**Developmental effects**: No known significant effects or critical hazards.

**Fertility effects**: No known significant effects or critical hazards.

Section 12. Ecological information

**Toxicity**
Not available.

**Conclusion/Summary**: Not available.

**Persistence and degradability**

**Conclusion/Summary**: Not available.

**Bioaccumulative potential**

Not available.

**Mobility in soil**

**Soil/water partition coefficient ($K_{OC}$)**: Not available.

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

Section 13. Disposal considerations

**Disposal methods**: The generation of waste should be avoided or minimized wherever possible. 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

<table>
<thead>
<tr>
<th></th>
<th>DOT Classification</th>
<th>IMDG</th>
<th>IATA</th>
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<td><strong>UN number</strong></td>
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<td><strong>Transport hazard class(es)</strong></td>
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<td><strong>Packing group</strong></td>
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<tr>
<td><strong>Environmental hazards</strong></td>
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<td>No.</td>
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</tr>
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</table>

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Section 14. Transport information

**Additional information**

**TDG Classification**: Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.43-2.45 (Class 9), 2.7 (Marine pollutant mark). Non-bulk packages of this product are not regulated as dangerous goods when transported by road or rail.

**Mexico Classification**: The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

**ADR/RID**: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

**IATA**: The environmentally hazardous substance mark may appear if required by other transportation regulations.

**Special precautions for user**: **Transport within user’s premises**: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to Annex II of MARPOL and the IBC Code**: Not available.

Section 15. Regulatory information

**U.S. Federal regulations**

**United States inventory (TSCA 8b)**: All components are listed or exempted. This material is classified as an oil under Section 311 of the Clean Water Act (CWA) and the Oil Pollution Act of 1990 (OPA). Discharges or spills which produce a visible sheen on waters of the United States, their adjoining shorelines, or into conduits leading to surface waters must be reported to the EPA's National Response Center at (800) 424-8802.

**SARA 302/304**

**Composition/information on ingredients**

**SARA 304 RQ**: Not applicable.

**SARA 311/312**

**Classification**: ASPIRATION HAZARD - Category 1

**Composition/information on ingredients**

<table>
<thead>
<tr>
<th>Name</th>
<th>%</th>
<th>Classification</th>
</tr>
</thead>
</table>
| Distillates (petroleum), hydrotreated middle | >99 | FLAMMABLE LIQUIDS - Category 4
| | | ASPIRATION HAZARD - Category 1 |

**State regulations**

**Massachusetts**: The following components are listed: OIL MIST, MINERAL HYDROTREATED LEAF.

**New York**: None of the components are listed.

**New Jersey**: The following components are listed: MINERAL OIL.

**Pennsylvania**: None of the components are listed.

**International regulations**

**WHMIS (Canada)**: Not controlled under WHMIS (Canada).

**Inventory list**

**United States**: All components are listed or exempted.

**Australia**: All components are listed or exempted.

**Canada**: All components are listed or exempted.

**China**: All components are listed or exempted.

**Europe**: All components are listed or exempted.
Section 15. Regulatory information

Japan:
  - Japan inventory (ENCS): Not determined.
  - Japan inventory (ISHL): Not determined.

Malaysia:
  - All components are listed or exempted.

New Zealand:
  - All components are listed or exempted.

Philippines:
  - All components are listed or exempted.

Republic of Korea:
  - All components are listed or exempted.

Taiwan:
  - All components are listed or exempted.

Thailand:
  - Not determined.

Viet Nam:
  - Not determined.

Section 16. Other information

National Fire Protection Association (U.S.A.)

Flammability 1
Health 3
Instability/Reactivity 0
Special

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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
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<tbody>
<tr>
<td>ASPIRATION HAZARD - Category 1</td>
<td>Expert judgment</td>
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History

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<th>1/18/2018</th>
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<tr>
<td>Date of issue/Date of revision</td>
<td>1/18/2018</td>
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<td>1/18/2018</td>
</tr>
<tr>
<td>Version</td>
<td>3.01</td>
</tr>
</tbody>
</table>

Key to abbreviations

- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- UN = United Nations

References

Not available.

 Indicates information that has changed from previously issued version.

Notice to reader

Date of issue/Date of revision : 1/18/2018  Date of previous issue : 1/18/2018  Version : 3.01
Section 16. Other information

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