SAFETY DATA SHEET

| Revision date: 26 April 2018 | Initial date of issue: 21 March 2007 | SDS No. 164A-18a |

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier
690 FG Lubricant (Aerosol)

1.2. Relevant identified uses of the substance or mixture and uses advised against
Penetrates and loosens rust, scale, corrosion, dirt, graphite, etc., without injury to the basic metal, wood, paint or plastic. For equipment in food, beverage and pharmaceutical plants.

1.3. Details of the supplier of the safety data sheet

<table>
<thead>
<tr>
<th>Company: A.W. CHESTERTON COMPANY</th>
</tr>
</thead>
<tbody>
<tr>
<td>860 Salem Street</td>
</tr>
<tr>
<td>Groveland, MA 01834-1507, USA</td>
</tr>
<tr>
<td>Tel.  +1 978-469-6446 Fax: +1 978-469-6785</td>
</tr>
<tr>
<td>(Mon. - Fri. 8:30 - 5:00 PM EST)</td>
</tr>
<tr>
<td>SDS requests: <a href="http://www.chesterton.com">www.chesterton.com</a></td>
</tr>
<tr>
<td>E-mail (SDS questions): <a href="mailto:ProductMSDSs@chesterton.com">ProductMSDSs@chesterton.com</a></td>
</tr>
<tr>
<td>E-mail: <a href="mailto:customer.service@chesterton.com">customer.service@chesterton.com</a></td>
</tr>
</tbody>
</table>

Canada: A.W. Chesterton Company Ltd., 889 Fraser Drive, Unit 105, Burlington, Ontario L7L 4X8 - Tel. 905-335-5055
EU: Chesterton International GmbH, Am Lenzenfleck 23, D85737 Ismaning, Germany – Tel. +49-89-996-5460

1.4. Emergency telephone number
24 hours per day, 7 days per week
Call Infotrac: 1-800-535-5053
Outside N. America: +1 352-323-3500 (collect)
NSW Poisons Information Centre (Australia): 13 11 26

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

<table>
<thead>
<tr>
<th>Aerosol 1, H222, H229</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asp. Tox. 1, H304*</td>
</tr>
</tbody>
</table>

2.1.1. Classification according to Regulation (EC) No 1272/2008 [CLP]

2.1.2. Classification according to 29 CFR 1910.1200 / WHMIS 2015
Flam. Aerosol 1, H222
Compressed gas, H280
Asp. Tox. 1, H304

2.1.3. Classification according to WHMIS 1988
B5: Flammable aerosols; A: Compressed gases

2.1.4. Australian statement of hazardous nature
Hazardous according to criteria of Safe Work Australia.

2.1.5. Additional information
For full text of H-statements: see SECTIONS 2.2 and 16.
*Labelling not required for aerosols containing substances or mixtures classified as presenting an aspiration hazard, under Article 23 of the CLP.
2.2. Label elements

2.2.1. Labelling according to Regulation (EC) No 1272/2008 [CLP]

Hazard pictograms:

Signal word: Danger

Hazard statements:
- H222 Extremely flammable aerosol.
- H229 Pressurized container: May burst if heated.

Precautionary statements:
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P211 Do not spray on an open flame or other ignition source.
- P251 Do not pierce or burn, even after use.
- P301/310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P331 Do NOT induce vomiting.
- P403 Store in a well-ventilated place.
- P410/412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

Supplemental information: None

2.2.2. Labelling according to 29 CFR 1910.1200 / WHMIS 2015

Hazard pictograms:

Signal word: Danger

Hazard statements:
- H222 Extremely flammable aerosol.
- H280 Contains gas under pressure; may explode if heated.
- H304 May be fatal if swallowed and enters airways.

Precautionary statements:
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P211 Do not spray on an open flame or other ignition source.
- P251 Do not pierce or burn, even after use.
- P301/310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P331 Do NOT induce vomiting.
- P403 Store in a well-ventilated place.
- P410/412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

Supplemental information: None

2.3. Other hazards

None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Hazardous Ingredients¹  | % Wt.  | CAS No./EC No.  | REACH Reg. No.  | CLP/GHS Classification
----------------------|--------|-----------------|----------------|----------------------
White mineral oil (petroleum) | 85-95  | 8042-47-5, 232-455-8 | NA | Asp. Tox. 1, H304
Propane                | 5-10   | 74-98-6, 200-827-9  | NA | Flam. Gas 1, H220

For full text of H-statements: see SECTION 16.

* 1272/2008/EC, REACH
* WHMIS 2015
* Safe Work Australia
SECTION 4: FIRST AID MEASURES
4.1. Description of first aid measures
Inhalation: Remove to fresh air. If not breathing, administer artificial respiration. Contact physician.
Skin contact: Wash skin with soap and water. Contact physician if irritation persists.
Eye contact: Flush eyes for at least 15 minutes with large amounts of water. Contact physician if irritation persists.
Ingestion: Do not induce vomiting. Contact physician immediately.
4.2. Most important symptoms and effects, both acute and delayed
Aspiration into the lungs may cause chemical pneumonitis or pulmonary oedema.
4.3. Indication of any immediate medical attention and special treatment needed
Treat symptoms.

SECTION 5: FIREFIGHTING MEASURES
5.1. Extinguishing media
Suitable extinguishing media: Carbon dioxide, dry chemical, foam or water fog
Unsuitable extinguishing media: High volume water jet
5.2. Special hazards arising from the substance or mixture
Pressurized containers, when heated, are a potential explosive hazard. Water may cause frothing.
5.3. Advice for firefighters
Cool containers with water. Recommend Firefighters wear self-contained breathing apparatus.

Flammability Classification: not determined
HAZCHEM Emergency Action Code: 2 Y

SECTION 6: ACCIDENTAL RELEASE MEASURES
6.1. Personal precautions, protective equipment and emergency procedures
Evacuate area. Provide adequate ventilation. Utilize exposure controls and personal protection as specified in Section 8.
6.2. Environmental Precautions
Keep out of sewers, streams and waterways.
6.3. Methods and material for containment and cleaning up
Contain spill to a small area. Keep away from sources of ignition - No smoking. If removal of ignition sources is not possible, then flush material away with water. Pick up with absorbent material (sand, sawdust, clay, etc.) and place in a suitable container for disposal.
6.4. Reference to other sections
Refer to section 13 for disposal advice.

SECTION 7: HANDLING AND STORAGE
7.1. Precautions for safe handling
Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No Smoking. Observe good work practice - avoid eating, drinking and smoking in the work area while using any hydrocarbons. Utilize exposure controls and personal protection as specified in Section 8.
7.2. Conditions for safe storage, including any incompatibilities
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C (120°F). Do not pierce or burn, even after use.
7.3. Specific end use(s)
No special precautions.
SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

**Occupational exposure limit values**

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>OSHA PEL¹ ppm</th>
<th>mg/m³</th>
<th>ACGIH TLV² ppm</th>
<th>mg/m³</th>
<th>UK WEL³ ppm</th>
<th>mg/m³</th>
<th>AUSTRALIA ES⁴ ppm</th>
<th>mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil mist, mineral</td>
<td>-</td>
<td>5</td>
<td>-</td>
<td>5</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>5</td>
</tr>
<tr>
<td>Propane</td>
<td>1000</td>
<td>1800</td>
<td>*</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

*Simple asphyxiant.

¹ United States Occupational Health & Safety Administration permissible exposure limits.
² American Conference of Governmental Industrial Hygienists threshold limit values.
³ EH40 Workplace exposure limits, Health & Safety Executive
⁴ Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003].

8.2. Exposure controls

8.2.1. Engineering measures

Use only in well-ventilated areas. If exposure limits are exceeded, provide adequate ventilation.

8.2.2. Individual protection measures

Respiratory protection: Not normally needed. If exposure limits are exceeded, use approved organic vapor respirator (e.g., EN filter type A/P2).

Protective gloves: Not normally needed.

Eye and face protection: Safety goggles or glasses.

Other: None

8.2.3. Environmental exposure controls

Refer to sections 6 and 12.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state</th>
<th>liquid</th>
<th>Odour</th>
<th>odorless</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>colorless</td>
<td>Odour threshold</td>
<td>not determined</td>
</tr>
<tr>
<td>Initial boiling point</td>
<td>299°C (570°F), product only</td>
<td>Vapour pressure @ 20°C</td>
<td>not determined</td>
</tr>
<tr>
<td>Melting point</td>
<td>not determined</td>
<td>% Aromatics by weight</td>
<td>0%</td>
</tr>
<tr>
<td>% Volatile (by volume)</td>
<td>0%, product only</td>
<td>pH</td>
<td>not applicable</td>
</tr>
<tr>
<td>Flash point</td>
<td>171°C (340°F)</td>
<td>Relative density</td>
<td>0.88 kg/l, product only</td>
</tr>
<tr>
<td>Method</td>
<td>Open Cup, product only</td>
<td>Weight per volume</td>
<td>7.32 lbs/gal., product only</td>
</tr>
<tr>
<td>Viscosity</td>
<td>&lt; 100 cps</td>
<td>Coefficient (water/oil)</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>not determined</td>
<td>Vapour density (air=1)</td>
<td>&gt; 1</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>no data available</td>
<td>Rate of evaporation (ether=1)</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>not determined</td>
<td>Solubility in water</td>
<td>negligible</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>not applicable</td>
<td>Oxidising properties</td>
<td>not applicable</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>not applicable</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

9.2. Other information

Kinematic viscosity at 40°C: 17.93 cst (product only).

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Refer to sections 10.3 and 10.5.

10.2. Chemical stability

Stable

10.3. Possibility of hazardous reactions

No dangerous reactions known under conditions of normal use.
10.4. Conditions to avoid
Open flames, heat, sparks and red hot surfaces.

10.5. Incompatible materials
Strong oxidizers like liquid Chlorine and concentrated Oxygen.

10.6. Hazardous decomposition products
Carbon Monoxide, Carbon Dioxide and other toxic fumes.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects
Primary route of exposure under normal use: Inhalation, skin and eye contact.

Acute toxicity -

<table>
<thead>
<tr>
<th>Substance</th>
<th>Test</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>White mineral oil (petroleum)</td>
<td>LD50, rat</td>
<td>&gt; 5000 mg/kg</td>
</tr>
</tbody>
</table>

Dermal:

<table>
<thead>
<tr>
<th>Substance</th>
<th>Test</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>White mineral oil (petroleum)</td>
<td>LD50, rabbit</td>
<td>&gt; 2000 mg/kg</td>
</tr>
</tbody>
</table>

Inhalation:

<table>
<thead>
<tr>
<th>Substance</th>
<th>Test</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>White mineral oil (petroleum)</td>
<td>LC50, rat, 4 hours</td>
<td>&gt; 5 mg/l</td>
</tr>
<tr>
<td>Propane</td>
<td>LC50, rat, 4 hours</td>
<td>658 mg/l</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation: White mineral oil (petroleum): Not irritating.

Serious eye damage/irritation: White mineral oil (petroleum): Not irritating.

Respiratory or skin sensitisation: No information available

Germ cell mutagenicity: No information available

Carcinogenicity: As per 29 CFR 1910.1200 (Hazard Communication), this product contains no carcinogens as listed by the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC), the Occupational Safety and Health Administration (OSHA) or Regulation (EC) No 1272/2008.

Reproductive toxicity: No information available

STOT-single exposure: No information available

STOT-repeated exposure: No information available

Aspiration hazard: Aspiration into the lungs may cause chemical pneumonitis or pulmonary oedema.

Other information: None known

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicological data have not been determined specifically for this product. The information given below is based on a knowledge of the components and the ecotoxicology of similar substances.

12.1. Toxicity
Oil products, improperly released to the environment, can cause ground and water pollution.

12.2. Persistence and degradability
The product is not readily biodegradable to OECD criteria but is inherently biodegradable.

12.3. Bioaccumulative potential
No information available

12.4. Mobility in soil
Liquid. Solubility in water: negligible. In determining environmental mobility, consider the product's physical and chemical properties (see Section 9). White mineral oil (petroleum): expected to exhibit low mobility in soil.
12.5. Results of PBT and vPvB assessment
Not available

12.6. Other adverse effects
None known

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
Incinerate absorbed material with a properly licensed facility. Incinerate or fuel blend spent or unused product. Incinerate pressurized containers at an approved facility. Check local, state and national/federal regulations and comply with the most stringent requirement. This product is classified as a hazardous waste according to 2008/98/EC.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number
- ADR/RID/ADN/IMDG/ICAO: UN1950
- TDG: UN1950
- US DOT: UN1950

14.2. UN proper shipping name
- ICAO: Aerosols, Flammable
- IMDG: Aerosols
- ADR/RID/ADN: Aerosols, flammable
- TDG: Aerosols, flammable
- US DOT: Aerosols, flammable

14.3. Transport hazard class(es)
- ADR/RID/ADN/IMDG/ICAO: 2.1
- TDG: 2.1
- US DOT: 2.1

14.4. Packing group
- ADR/RID/ADN/IMDG/ICAO: NOT APPLICABLE
- TDG: NOT APPLICABLE
- US DOT: NOT APPLICABLE

14.5. Environmental hazards
No environmental hazards

14.6. Special precautions for user
No special precautions for user

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable

14.8. Other information
- US DOT: Shipped as Consumer Commodity ORM-D in packaging having a rated capacity gross weight of 66 lb. or less (49 CFR 173.306(i)). ERG NO. 126
- IMDG: EmS. F-D, S-U, Shipped as Limited Quantity
- ADR: Classification code 5F, Tunnel restriction code (E), Shipped as Limited Quantity

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU regulations
- Authorisations under Title VII: Not applicable
- Restrictions under Title VIII: None

15.1.2. National regulations

US EPA SARA TITLE III

312 Hazards: 313 Chemicals:
- Immediate None
- Fire
- Pressure Release

Other national regulations: National implementation of the EC Directive referred to in section 15.1.1.

15.2. Chemical safety assessment
No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.
### SECTION 16: OTHER INFORMATION

#### Abbreviations and acronyms:
- ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- ATE: Acute Toxicity Estimate
- BCF: Bioconcentration Factor
- cATpE: Converted Acute Toxicity point Estimate
- CLP: Classification Labelling Packaging Regulation (1272/2008/EC)
- ES: Exposure Standard
- GHS: Globally Harmonized System
- ICAO: International Civil Aviation Organization
- IMDG: International Maritime Dangerous Goods
- LC50: Lethal Concentration to 50% of a test population
- LD50: Lethal Dose to 50% of a test population
- LOEL: Lowest Observed Effect Level
- N/A: Not Applicable
- NA: Not Available
- NOEC: No Observed Effect Concentration
- NOEL: No Observed Effect Level
- OECD: Organization for Economic Co-operation and Development
- PBT: Persistent, Bioaccumulative and Toxic substance
- (Q)SAR: Quantitative Structure-Activity Relationship
- REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (1907/2006/EC)
- REL: Recommended Exposure Limit
- RID: Regulations concerning the International Carriage of Dangerous Goods by Rail
- SDS: Safety Data Sheet
- STEL: Short Term Exposure Limit
- STOT RE: Specific Target Organ Toxicity, Repeated Exposure
- STOT SE: Specific Target Organ Toxicity, Single Exposure
- TDG: Transportation of Dangerous Goods (Canada)
- TWA: Time Weighted Average
- US DOT: United States Department of Transportation
- vPvB: very Persistent and very Bioaccumulative substance
- WEL: Workplace Exposure Limit
- WHMIS: Workplace Hazardous Materials Information System
- Other abbreviations and acronyms can be looked up at www.wikipedia.org.

#### Key literature references and sources for data:
- Commission des normes, de l'équité, de la santé et de la sécurité du travail (CNESST)
- Chemical Classification and Information Database (CCID)
- European Chemicals Agency (ECHA) - Information on Chemicals
- Hazardous Substances Information System (HSIS)
- National Institute of Technology and Evaluation (NITE)
- Swedish Chemicals Agency (KEMI)
- U.S. National Library of Medicine Toxicology Data Network (TOXNET)

#### Procedure used to derive the classification for mixtures according to Regulation (EC) No 1272/2008 [CLP]:

<table>
<thead>
<tr>
<th>Classification</th>
<th>Classification procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aerosol 1, H222, H229</td>
<td>On basis of components</td>
</tr>
<tr>
<td>Asp. Tox, H304</td>
<td>On basis of test data</td>
</tr>
</tbody>
</table>

#### Relevant H-statements:
- H220: Extremely flammable gas.
- H222: Extremely flammable aerosol.
- H229: Pressurized container: May burst if heated.
- H280: Contains gas under pressure; may explode if heated.
- H304: May be fatal if swallowed and enters airways.

#### Hazard pictogram names:
- Flame, gas cylinder, health hazard

#### Changes to the SDS in this revision:
- Section 1.3.

#### Revision date:
- 26 April 2018

#### Further information:
- None

This information is based solely on data provided by suppliers of the materials used, not on the mixture itself. No warranty is expressed or implied regarding the suitability of the product for the user's particular purpose. The user must make their own determination as to suitability.