

SAFETY DATA SHEET

in accordance with 29 CFR 1910.1200 / WHMIS 2022

Revision date: 5 June 2024 **Date of previous issue:** 29 December 2020 **SDS No.** 164A-19

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

Relevant identified uses: 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.

Uses advised against: No information available

Reason why uses advised against: Not applicable

1.3. Details of the supplier of the safety data sheet

Company:

A.W. CHESTERTON COMPANY
860 Salem Street
Groveland, MA 01834-1507, USA
Tel. +1 978-469-6446
(Mon. - Fri. 8:30 - 5:00 PM EST)
SDS requests: www.chesterton.com
E-mail (SDS questions): ProductSDSs@chesterton.com
E-mail: customer.service@chesterton.com

Supplier:

Canada: A.W. Chesterton Company Ltd., 889 Fraser Drive,
Unit 105, Burlington, Ontario L7L 4X8 – Tel. 905-335-5055

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)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

2.1.1. Classification according to 29 CFR 1910.1200 / WHMIS 2022

Aerosol, Category 1, H222, H229
Aspiration hazard, Category 1, H304
Reproductive toxicity, Category 2, H361f
Hazardous to the aquatic environment, Chronic, Category 2, H411

2.1.2. Additional information

For full text of H-statements: see SECTIONS 2.2 and 16.

2.2. Label elements

Labeling according to 29 CFR 1910.1200 / WHMIS 2022

Hazard pictograms:



Signal word: Danger

Hazard statements:	H222	Extremely flammable aerosol.
	H229	Pressurized container: May burst if heated.
	H304	May be fatal if swallowed and enters airways.
	H361f	Suspected of damaging fertility.
	H411	Toxic to aquatic life with long lasting effects.

Precautionary statements:	P201	Obtain special instructions before use.
	P202	Do not handle until all safety precautions have been read and understood.
	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.
	P273	Avoid release to the environment.
	P280	Wear protective gloves and eye protection.
	P301/310	IF SWALLOWED: Immediately call a POISON CENTER or doctor.
	P331	Do NOT induce vomiting.
	P308/313	IF exposed or concerned: Get medical advice/attention.
	P405	Store locked up.
	P410/412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
	P501	Dispose of contents/container to an approved waste disposal plant.

Supplemental information: None

2.3. Other hazards

None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Hazardous Ingredients ¹	% Wt.	CAS No.
White mineral oil (petroleum)	85-95	8042-47-5
Propane	5-10	74-98-6
O,O,O-triphenyl phosphorothioate	0.1-0.9	597-82-0
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	0.1-0.3	68411-46-1

¹ Classified according to: • 29 CFR 1910.1200, 1915, 1916, 1917, Mass. Right-to-Know Law (ch. 40, M.G.L..O. 111F)
• WHMIS 2022, GHS

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.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. See section 8.2.2 for recommendations on personal protective equipment. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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: FIRE-FIGHTING 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

Hazardous combustion products: Carbon Monoxide, Carbon Dioxide and other toxic fumes.

Other hazards: 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.

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**

Ingredients	OSHA PEL ¹		ACGIH TLV ²	
	ppm	mg/m ³	ppm	mg/m ³
Oil mist, mineral	N/A	5	N/A	5
Propane	1000	1800	*	N/A
O,O,O-triphenyl phosphorothioate	N/A	N/A	N/A	N/A
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	N/A	N/A	N/A	N/A

*Simple asphyxiant.

¹ United States Occupational Health & Safety Administration permissible exposure limits

² American Conference of Governmental Industrial Hygienists threshold limit values

Biological limit values

No biological exposure limits noted for the ingredient(s).

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.

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**

Physical state	liquid	pH	not applicable
Colour	colorless	Kinematic viscosity	17.93 cst @ 40°C (product only)
Odour	odorless	Solubility in water	negligible
Odour threshold	not determined	Partition coefficient n-octanol/water (log value)	not applicable
Boiling point or range	299°C (570°F), product only	Vapour pressure @ 20°C	not determined
Melting point/freezing point	not determined	Density and/or relative density	0.88 kg/l, product only
% Volatile (by volume)	0%, product only	Weight per volume	7.32 lbs/gal., product only
Flammability	ignitable	Vapour density (air=1)	> 1
Lower/upper flammability or explosion limits	not determined	Rate of evaporation (ether=1)	< 1
Flash point	171°C (340°F)	% Aromatics by weight	0%
Method	Open Cup, product only	Particle characteristics	not applicable
Autoignition temperature	not determined	Explosive properties	not applicable
Decomposition temperature	no data available	Oxidising properties	not applicable

9.2. Other information

None

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 -****Oral:** Based on available data on components, the classification criteria are not met.

Substance	Test	Result
White mineral oil (petroleum)	LD50, rat	> 5000 mg/kg

Dermal: Based on available data on components, the classification criteria are not met.

Substance	Test	Result
White mineral oil (petroleum)	LD50, rabbit	> 2000 mg/kg

Inhalation: Based on available data on components, the classification criteria are not met.

Substance	Test	Result
White mineral oil (petroleum)	LC50, rat, 4 hours	> 5 mg/l
Propane	LC50, rat, 4 hours	658 mg/l

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

Serious eye damage/irritation:

White mineral oil (petroleum): Not irritating.

Respiratory or skin sensitisation:

Based on available data on components, the classification criteria are not met.

Substance	Test	Result
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	Skin sensitization, guinea pig (OECD 406)	Not sensitizing

Germ cell mutagenicity:

Mutagenicity not suspected for humans.

Substance	Test	Result
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	Ames test	negative

Carcinogenicity:

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 the European Chemicals Agency (ECHA).

Reproductive toxicity:

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene has produced effects on fertility in an animal ingestion study.

Substance	Test	Result
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	rat, male/female, oral, 1 generation, OECD 443	Effects on fertility

STOT – single exposure:

Not expected to cause toxicity.

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

Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

The product is not readily biodegradable to OECD criteria but is inherently biodegradable.

12.3. Bioaccumulative potential

O,O,O-triphenyl phosphorothioate: has the potential to bioaccumulate.

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. Endocrine disrupting properties

None known

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.

SECTION 14: TRANSPORT INFORMATION**14.1. UN number or ID number**

RID/IMDG/ICAO:	UN1950
TDG:	UN1950
US DOT:	UN1950

14.2. UN proper shipping name

ICAO:	AEROSOLS, FLAMMABLE
IMDG:	AEROSOLS

RID: AEROSOLS, *FLAMMABLE*
TDG: AEROSOLS, *FLAMMABLE*
US DOT: AEROSOLS, *FLAMMABLE*

14.3. Transport hazard class(es)

RID/IMDG/ICAO: 2.1
TDG: 2.1
US DOT: 2.1

14.4. Packing group

RID/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. Maritime transport in bulk according to IMO instruments

NOT APPLICABLE

14.8. Other information

US DOT: SHIPPED AS LIMITED QUANTITY IN PACKAGING HAVING A RATED CAPACITY GROSS WEIGHT OF 66 LB. OR LESS (49 CFR 173.306(A),(3),(I)).

ERG NO. 126

IMDG: EMS. F-D, S-U, 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. National regulations****US EPA SARA TITLE III****312 Hazards:**

Flammable aerosol
 Aspiration hazard
 Reproductive toxicity

Chemicals subject to reporting requirements of Section 313 of EPCRA and of 40 CFR 372:

None

TSCA: All components are listed or exempted.

Other national regulations: None

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms: ATE: Acute Toxicity Estimate
 BCF: Bioconcentration Factor
 cATpE: Converted Acute Toxicity point Estimate
 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
 (Q)SAR: Quantitative Structure-Activity Relationship
 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
 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 Chemical Information System (HCIS)
 National Institute of Technology and Evaluation (NITE)
 U.S. National Library of Medicine Toxicology Data Network (TOXNET)

Procedure used to derive the classification for mixtures according to GHS:

Classification	Classification procedure
Aerosol 1, H222, H229	On basis of components
Asp. Tox, H304	On basis of components and test data
Repr. 2, H361f	Calculation method
Aquatic Chronic 2, H411	Calculation method

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.
 H361f: Suspected of damaging fertility.
 H410: Very toxic to aquatic life with long lasting effects.
 H412: Harmful to aquatic life with long lasting effects.

Further information: None

Date of last revision: 5 June 2024

Changes to the SDS in this revision: Sections 1.2, 1.3, 2.1, 2.2, 3, 4.1, 5.3, 8.1, 9.1, 9.2, 11, 12.1, 12.3, 12.5, 13, 15.1, 16.

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.