



SAFETY DATA SHEET

in accordance with 29 CFR 1910.1200, WHMIS 2022 and Safe Work Australia

Revision date: 6 August 2024

Date of previous issue: 10 January 2019

SDS No. 173GB-14

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

1.1. Product identifier

715 Spraflex® Gold (Bulk)

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Petroleum base lubricant for chain drives, open gears and wire ropes.

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)

NSW Poisons Information Centre (Australia): 13 11 26

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

2.1.1. Classification according to 29 CFR 1910.1200 / WHMIS 2022 / Safe Work Australia / GHS

This product does not meet the criteria for classification in any hazard class according to 29 CFR 1910.1200, WHMIS 2022 and Safe Work Australia.

2.1.2. Additional information

None

2.2. Label elements

Labeling according to 29 CFR 1910.1200 / WHMIS 2022 / Safe Work Australia / GHS

Hazard pictograms: None

Signal word: None

Hazard statements: None

Precautionary statements: None

Supplemental information: None

2.3. Other hazards

None known

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.2. Mixtures**

| Hazardous Ingredients ¹ | % Wt. | CAS No. | GHS Classification |
|---|--------|------------|---|
| 4,4'-Methylene bis(dibutylthiocarbamate) | 1-5 | 10254-57-6 | Aquatic Chronic 4, H413 |
| Barium bis(dinonylnaphthalenesulphonate) | 1-5 | 25619-56-1 | Acute Tox. 4, H302/332 Skin Irrit. 2, H315 |
| 2-(2-Butoxyethoxy)ethanol | 0.1-<1 | 112-34-5 | Eye Irrit. 2, H319 STOT SE 3, H336 |
| Other ingredients: White mineral oil (petroleum) | 1-5 | 8042-47-5 | Not classified |

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

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, Safe Work Australia, GHS

SECTION 4: FIRST AID MEASURES**4.1. Description of first aid measures**

Inhalation: Not applicable

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: Avoid contact with the product while providing aid to the victim. See section 8.2.2 for recommendations on personal protective equipment.

4.2. Most important symptoms and effects, both acute and delayed

May cause mild eye irritation. Prolonged or repeated skin contact may defat the skin and cause skin irritation.

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: Chlorides, SO_x, Oxides of Carbon, Nitrogen, Sulfur and Barium and other toxic fumes.

Other hazards: None

5.3. Advice for firefighters

Cool exposed containers with water. Recommend Firefighters wear self-contained breathing apparatus.

Australian HAZCHEM Emergency Action Code: 2 Z

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**

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. 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**

Utilize exposure controls and personal protection as specified in Section 8. Remove contaminated clothing. Launder contaminated clothing before reuse. Wash thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, dry area. Keep container closed when not in 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 | | AUSTRALIA ES ³ | |
|--|-----------------------|-------------------|------------------------|-------------------|---------------------------|-------------------|
| | ppm | mg/m ³ | ppm | mg/m ³ | ppm | mg/m ³ |
| 4,4'-Methylene bis(dibutylthiocarbamate) | N/A | N/A | N/A | N/A | N/A | N/A |
| Barium bis(dinonylnaphthalenesulphonate) | N/A | N/A | N/A | N/A | N/A | N/A |
| 2-(2-Butoxyethoxy)ethanol | N/A | N/A | N/A | N/A | N/A | N/A |
| White mineral oil (petroleum) | (oil mist) | 5 | (oil mist) | 5 | (oil mist) | 5 |

¹ United States Occupational Health & Safety Administration permissible exposure limits

² American Conference of Governmental Industrial Hygienists threshold limit values

³ Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants

Biological limit values

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

8.2. Exposure controls**8.2.1. Engineering measures**

No special requirements. 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 an approved organic vapor respirator for mists (e.g., EN filter type A-P2).

Protective gloves: Chemical resistant gloves (e.g., nitrile rubber)

Eye and face protection: Safety 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 | amber | Kinematic viscosity | 9,600 cSt @ 40°C |
| Odour | solvent odor | Solubility in water | insoluble |
| Odour threshold | not determined | Partition coefficient n-octanol/water (log value) | not applicable |
| Boiling point or range | not determined | Vapour pressure @ 20°C | not determined |
| Melting point/freezing point | not determined | Density and/or relative density | 0.89 kg/l |
| % Volatile (by volume) | 37% | Weight per volume | 7.43 lbs/gal. |
| Flammability | not determined | Vapour density (air=1) | > 1 |
| Lower/upper flammability or explosion limits | not determined | Rate of evaporation (ether=1) | < 1 |
| Flash point | 133°C (271°F) | % Aromatics by weight | not determined |
| Method | ASTM D93 | Particle characteristics | not applicable |
| Autoignition temperature | not determined | Explosive properties | not determined |
| Decomposition temperature | not determined | Oxidising properties | not determined |

9.2. Other information

Dynamic viscosity: 30,000 cPs @ 25°C

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 and red hot surfaces.

10.5. Incompatible materials

Strong oxidizers like liquid Chlorine and concentrated Oxygen.

10.6. Hazardous decomposition productsChlorides, SO_x, Oxides of Carbon, Nitrogen, Sulfur and Barium and other toxic fumes.**SECTION 11: TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects**

Primary route of exposure under normal use: Skin and eye contact. Personnel with pre-existing dermatitis are generally aggravated by exposure.

Acute toxicity -**Oral:**

Based on available data on components, the classification criteria are not met. ATE-mix = 97,222 mg/kg.

| Substance | Test | Result |
|--|----------------|---------------------------|
| 4,4'-Methylene bis(dibutylthiocarbamate) | LD50, rat | 16,000 mg/kg |
| Barium bis(dinonylnaphthalenesulphonate) | LD50 oral, rat | 1,750 mg/kg (read-across) |
| 2-(2-Butoxyethoxy)ethanol | LD50, mouse | 2,410 mg/kg |
| White mineral oil (petroleum) | LD50, rat | > 5,000 mg/kg |

Dermal:

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

| Substance | Test | Result |
|--|--------------|------------------------|
| 4,4'-Methylene bis(dibutyldithiocarbamate) | LD50, rabbit | > 2,000 mg/kg |
| Barium bis(dinonylnaphthalenesulphonate) | LD50, rabbit | > 10,000 (read-across) |
| 2-(2-Butoxyethoxy)ethanol | LD50, rabbit | 2,764 mg/kg |
| White mineral oil (petroleum) | LD50, rabbit | > 2,000 mg/kg |

Inhalation:

ATE-mix = 583 mg/l (vapour).

| Substance | Test | Result |
|--|----------------|---------------------------------|
| Barium bis(dinonylnaphthalenesulphonate) | LC50, rat, 4 h | > 10 mg/l (vapour, read-across) |
| 2-(2-Butoxyethoxy)ethanol | LC0, rat, 4 h | > 2.1 mg/l |
| White mineral oil (petroleum) | LC50, rat, 4 h | > 5 mg/l (mist) |

Skin corrosion/irritation:

Prolonged or repeated skin contact may defat the skin and cause skin irritation.

| Substance | Test | Result |
|--|-------------------------|-------------------------------------|
| Barium bis(dinonylnaphthalenesulphonate) | Skin irritation, rabbit | Moderately irritating (read-across) |

Serious eye damage/irritation:

May cause mild eye irritation.

| Substance | Test | Result |
|--|-----------------------------------|--|
| Barium bis(dinonylnaphthalenesulphonate) | Eye irritation | Not irritating (read-across) |
| 2-(2-Butoxyethoxy)ethanol | Eye irritation, rabbit (OECD 405) | Irritating (Eye irritation score 2.33 - 2.78) ECETOC, 1998 |

Respiratory or skin sensitisation:

Not expected to cause sensitization.

| Substance | Test | Result |
|-------------------------------|--------------------------------|-----------------|
| White mineral oil (petroleum) | Skin sensitization, guinea pig | Not sensitizing |

Germ cell mutagenicity:

4,4'-Methylene bis(dibutyldithiocarbamate): Ames test, negative. Barium bis(dinonylnaphthalenesulphonate): In vitro test, bacteria, 3835negative. White mineral oil (petroleum) : based on available data, the classification criteria are not met.

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:

4,4'-Methylene bis(dibutyldithiocarbamate):in animal studies, did not interfere with reproduction. Barium bis(dinonylnaphthalenesulphonate): no known significant effects or critical hazards. White mineral oil (petroleum): based on available data, the classification criteria are not met.

STOT – single exposure:

White mineral oil (petroleum): based on available data, the classification criteria are not met.

STOT – repeated exposure:

4,4'-Methylene bis(dibutyldithiocarbamate), 2-(2-Butoxyethoxy)ethanol, White mineral oil (petroleum): based on available data, the classification criteria are not met.

Aspiration hazard:

Not expected to be an aspiration toxicant based on viscosity.

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

Semi-Synthetic Hydrocarbon Lubricant Base: 48 h EC50 (for daphnia) and 96 h LC50 (fish) > 1,000 mg/l, based on data from similar materials. 4,4'-Methylene bis(dibutyldithiocarbamate): chronic NOEC (Daphnia magna) 21 days > 0.247 mg/l.

12.2. Persistence and degradability

Semi-Synthetic Hydrocarbon Lubricant Base: not readily biodegradable. 4,4'-Methylene bis(dibutyldithiocarbamate): not readily biodegradable (OECD 301B, 28 days: 21%). 2-(2-Butoxyethoxy)ethanol: readily biodegradable (85%, 28 days).

12.3. Bioaccumulative potential

White mineral oil (petroleum): Octanol/water partition coefficient (log Kow) > 6. 4,4'-Methylene bis(dibutyldithiocarbamate): log Kow = 6.73, estimated. 2-(2-Butoxyethoxy)ethanol: not expected to bioaccumulate (BCF 1.4 - 3.2, QSAR).

12.4. Mobility in soil

Liquid. Insoluble in water. In determining environmental mobility, consider the product's physical and chemical properties (see Section 9). 2-(2-Butoxyethoxy)ethanol: expected to have very high mobility in soils.

12.5. Endocrine disrupting properties

None known

12.6. Other adverse effects

None known

SECTION 13: DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods**

Material can be stabilized/solidified or incinerated for disposal. Treatment standards for Barium may need to be met prior to land disposal. 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**

ADG/ADR/RID/ADN/IMDG/ICAO: NOT APPLICABLE

TDG: NOT APPLICABLE

US DOT: NOT APPLICABLE

14.2. UN proper shipping name

ADG/ADR/RID/ADN/IMDG/ICAO: NON-HAZARDOUS, NON REGULATED

TDG: NON-HAZARDOUS, NON REGULATED

US DOT: NON-HAZARDOUS, NON REGULATED

14.3. Transport hazard class(es)

ADG/ADR/RID/ADN/IMDG/ICAO: NOT APPLICABLE

TDG: NOT APPLICABLE

US DOT: NOT APPLICABLE

14.4. Packing group

ADG/ADR/RID/ADN/IMDG/ICAO: NOT APPLICABLE

TDG: NOT APPLICABLE

US DOT: NOT APPLICABLE

14.5. Environmental hazards

NOT APPLICABLE

14.6. Special precautions for user

NOT APPLICABLE

14.7. Maritime transport in bulk according to IMO instruments

NOT APPLICABLE

14.8. Other information

NOT APPLICABLE

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:**

None

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

Barium Compound 25619-56-1 1-5%

TSCA: All chemical components are listed in the TSCA inventory.

Other national regulations: None

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms: ADG: Australian Dangerous Goods Code
 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
 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 |
|----------------|--------------------------|
| None | Not applicable |

Relevant H-statements: H302/332: Harmful if swallowed or if inhaled.
 H315: Causes skin irritation.
 H319: Causes serious eye irritation.
 H336: May cause drowsiness or dizziness.
 H413: May cause long lasting harmful effects to aquatic life.

Hazard pictogram names: Not applicable

Further information: None

Date of last revision: 6 August 2024

Changes to the SDS in this revision: Sections 1.2, 1.3, 2.1, 2.2, 3, 5.2, 8.1, 9.1, 9.2, 11, 12.1, 12.2, 12.3, 12.5, 13, 15, 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.