# SAFETY DATA SHEET

in accordance with REACH (1907/2006/EC, as amended by 2015/830/EU) 29 CFR 1910.1200 and WHMIS 2015

**Revision date:** 12 June 2018 **Initial date of issue:** 5 July 2007 **SDS No.** 418-5

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

### 1.1. Product identifier

635 SXC Synthetic, Extreme Pressure, Corrosion Resistant Grease

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

Synthetic base oil lubricating grease. Superior multi-purpose grease for heavy loads, high heat and corrosive environments.

### 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 Fax: +1 978-469-6785
(Mon. - Fri. 8:30 - 5:00 PM EST)
SDS requests: www.chesterton.com
E-mail (SDS questions): ProductMSDSs@chesterton.com
E-mail: customer.service@chesterton.com

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

**Supplier:**

### 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 Regulation (EC) No 1272/2008 [CLP] / 29 CFR 1910.1200 / WHMIS 2015 / GHS

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, 29 CFR 1910.1200, WHMIS 2015 and GHS. However, a safety data sheet is being supplied for it on request as it contains at least one substance posing human health or environmental hazards.

#### 2.1.2. Australian statement of hazardous nature

Not classified as hazardous according to criteria of Safe Work Australia.

#### 2.1.3. Additional information

None

### 2.2. Label elements

**Labelling according to Regulation (EC) No 1272/2008 [CLP] / 29 CFR 1910.1200 / WHMIS 2015 / GHS**

| | | |
|---|---|---|
| **Hazard pictograms:** | None | |
| **Signal word:** | None | |
| **Hazard statements:** | None | |
| **Precautionary statements:** | None | |
| **Supplemental information:** | EUH208 | Contains Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts, Sulfonic acids, petroleum, calcium salts and Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts. May produce an allergic reaction. |

**2.3. Other hazards**

None

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

**3.2. Mixtures**

| Hazardous Ingredients[1] | % Wt. | CAS No./ EC No. | REACH Reg. No. | CLP/GHS Classification |
|---|---|---|---|---|
| 4,4'-Methylene bis(dibutyldithiocarbamate) | 5-10 | 10254-57-6<br>233-593-1 | NA | Aquatic Chronic 4, H413 |
| Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts | 1-5 | 68584-23-6<br>271-529-4 | NA | Skin Sens. 1B, H317 |
| Sulfonic acids, petroleum, calcium salts | 1-5 | 61789-86-4<br>263-093-4 | NA | Skin Sens. 1B, H317 |
| Bis(nonylphenyl)amine | 1-5 | 36878-20-3<br>253-249-4 | NA | Aquatic Chronic 4, H413 |
| Calcium dodecylbenzenesulphonate | 1-3 | 26264-06-2<br>247-557-8 | NA | Acute Tox. 4, H302<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Aquatic Chronic 4, H413 |
| Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts | 1-5 | 70024-69-0<br>274-263-7 | NA | Skin Sens. 1B, H317 |
| Other ingredients: | | | | |
| Calcium carbonate | 10-20 | 471-34-1<br>207-439-9 | NA | Not classified** |
| Baseoil – unspecified* | 10-20 | 64741-88-4<br>265-090-8 | NA | Not classified** |

For full text of H-statements: see SECTION 16.
*Contains less than 3 % DMSO extract as measured by IP 346.
**Substance with a workplace exposure limit.

[1] Classified according to:
- 29 CFR 1910.1200, 1915, 1916, 1917, Mass. Right-to-Know Law (ch. 40, M.G.L..O. 111F)
- 1272/2008/EC, GHS, 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 immediately.

**Ingestion:** Do not induce vomiting. Contact physician.

**Protection of first-aiders:** No action shall be taken involving any personal risk or without suitable training. Avoid contact with the product while providing aid to the victim. See section 8 for recommendations on personal protective equipment.

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

May cause mild eye irritation.

**4.3. Indication of any immediate medical attention and special treatment needed**

High velocity injection under the skin may leave a bloodless puncture wound subject to infection, disfigurement, lack of blood and may require amputation. Immediate treatment by a surgical specialist is recommended.

## 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**

Dense smoke.

**5.3. Advice for firefighters**

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

**Flammability Classification:** –

**HAZCHEM Emergency Action Code:** 3 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. Wash before eating, drinking or smoking. Injection into the body without immediate medical treatment may cause loss of affected part of the body.

**7.2. Conditions for safe storage, including any incompatibilities**

Store in a cool, dry area.

**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] | | UK WEL[3] | | AUSTRALIA ES | |
|---|---|---|---|---|---|---|---|---|
| | ppm | mg/m$^3$ | ppm | mg/m$^3$ | ppm | mg/m$^3$ | ppm | mg/m$^3$ |
| 4,4'-Methylene bis(dibutyldithiocarbamate) | – | – | – | – | – | – | – | – |
| Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts | – | – | – | – | – | – | – | – |
| Sulfonic acids, petroleum, calcium salts | – | – | – | – | – | – | – | – |
| Bis(nonylphenyl)amine | – | – | – | – | – | – | – | – |
| Calcium dodecylbenzenesulphonate | – | – | – | – | – | – | – | – |
| Calcium carbonate | (total)<br>(resp.) | 15<br>5 | (inhal.)<br>(resp.) | 10<br>3 | (inhal.)<br>(resp.) | 10<br>4 | – | 10 |
| Oil mist, mineral | – | 5 | – | 5 | – | – | – | 5 |
| Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts | – | – | – | – | – | – | – | – |

[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]

**Derived No Effect Level (DNEL) according to Regulation (EC) No 1907/2006:**

**Workers**

| Substance | Route of exposure | Potential health effects | DNEL |
|---|---|---|---|
| Bis(nonylphenyl)amine | Inhalation | Chronic effects, systemic | 4.37 mg/m$^3$ |
| | Dermal | Chronic effects, systemic | 0.62 mg/kg |

**Predicted No Effect Concentration (PNEC) according to Regulation (EC) No 1907/2006:**

| Substance | Environmental protection target | PNEC |
|---|---|---|
| Bis(nonylphenyl)amine | Fresh water | 0.1 mg/l |
| | Freshwater sediments | 132,000 mg/kg |
| | Marine water | 0.01 mg/l |
| | Marine sediments | 13,200 mg/kg |

**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.

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

**Eye and face protection:** Safety goggles or glasses.

**Other:** Long sleeves, long pants and good personal hygiene to minimize skin contact.

**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** | semi-solid | **Odour** | mild |
| **Colour** | green | **Odour threshold** | not determined |
| **Initial boiling point** | not applicable | **Vapour pressure @ 20°C** | < 0.0008 hPa (0.00 mm Hg) |
| **Melting point** | 204°C (> 400°F) | **% Aromatics by weight** | 0 |
| **% Volatile (by volume)** | negligible | **pH** | not applicable |
| **Flash point** | > 180°C (> 356°F) | **Relative density** | 1.0 kg/l |
| **Method** | PM Closed Cup | **Weight per volume** | 8.3 lbs/gal. |
| **Viscosity** | not determined | **Coefficient (water/oil)** | < 1 |
| **Autoignition temperature** | not determined | **Vapour density (air=1)** | > 1 |
| **Decomposition temperature** | no data available | **Rate of evaporation (ether=1)** | < 1 |
| **Upper/lower flammability or explosive limits** | not determined | **Solubility in water** | insoluble |
| **Flammability (solid, gas)** | not applicable | **Oxidising properties** | not determined |
| **Explosive properties** | not determined | | |

**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 under normal conditions.

**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 acids/bases and strong oxidizers like liquid Chlorine and concentrated Oxygen.

**10.6. Hazardous decomposition products**

Carbon Monoxide, Carbon Dioxide, Oxides of Sulfur 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.

**Acute toxicity -**

**Oral:** ATE-mix > 5,000 mg/kg

| Substance | Test | Result |
|---|---|---|
| 4,4'-Methylene bis(dibutyldithiocarbamate) | LD50, rat | 16,000 mg/kg |
| Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts | LD50, rat, (OECD 401) | > 2,000 mg/kg |
| Sulfonic acids, petroleum, calcium salts | LD50, rat, (OECD 401) | > 5,000 mg/kg |
| Calcium dodecylbenzenesulphonate | LD50, rat | 1,300 mg/kg |
| Bis(nonylphenyl)amine | LD50, rat | > 5,000 mg/kg |
| Calcium carbonate | LD50, rat | 6,450 mg/kg |

**Dermal:** ATE-mix > 5,000 mg/kg

| Substance | Test | Result |
|---|---|---|
| 4,4'-Methylene bis(dibutyldithiocarbamate) | LD50, rabbit | > 2,000 mg/kg |
| Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts | LD50, rabbit | > 2,000 mg/kg (read-across) |
| Calcium dodecylbenzenesulphonate | LD50, rabbit | > 4,199 mg/kg (read-across) |
| Sulfonic acids, petroleum, calcium salts | LD50, rabbit | > 4,000 mg/kg |

**Inhalation:** Not classified due to lack of data.

| Substance | Test | Result |
|---|---|---|
| Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts | LD50, rat, aerosol | > 1.9 mg/l (read-across) |

**Skin corrosion/irritation:**

| Substance | Test | Result |
|---|---|---|
| Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts | Skin irritation, rabbit | Not irritating (read-across) |
| Calcium dodecylbenzenesulphonate | Skin irritation, rabbit | Irritating |
| Bis(nonylphenyl)amine | Skin irritation, rabbit | Not irritating |

**Serious eye damage/ irritation:** May cause mild eye irritation.

| Substance | Test | Result |
|---|---|---|
| Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts | Eye irritation, rabbit | Irritating (read-across) |
| Calcium dodecylbenzenesulphonate | Eye irritation, rabbit | Severe irritation (read-across) |
| Sulfonic acids, petroleum, calcium salts | Eye irritation, rabbit (OECD 405) | Irritating |
| Bis(nonylphenyl)amine | Eye irritation, rabbit | Not irritating |

**Respiratory or skin sensitisation:** Does not cause skin sensitisation, based on data from similar materials. Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts, Sulfonic acids, petroleum, calcium salts, Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts: probability or evidence of low to moderate skin sensitisation rate in humans.

| Substance | Test | Result |
|---|---|---|
| Bis(nonylphenyl)amine | Skin sensitization, guinea pig | Not sensitizing |

**Germ cell mutagenicity:** Not classified due to lack of data. Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts: based on available data, the classification criteria are not met. 4,4'-Methylene bis(dibutyldithiocarbamate), 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 Regulation (EC) No 1272/2008.

**Reproductive toxicity:** Not classified due to lack of data.

**STOT – single exposure:** Not classified due to lack of data. Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts: based on available data, the classification criteria are not met.

**STOT – repeated exposure:** Not classified due to lack of data. Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts, 4,4'-Methylene bis(dibutyldithiocarbamate): based on available data, the classification criteria are not met.

**Aspiration hazard:** Not classified as an aspiration toxicant.

**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

Not determined. 4,4'-Methylene bis(dibutyldithiocarbamate): chronic NOEC (Daphnia magna) 21 days > 0.247 mg/l. Calcium dodecylbenzenesulphonate: 96 h LC50 (fish) = 22 mg/l (OECD 203, read-across). Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene: 96 h LC50 (fish) > 71 mg/l (OECD 203). Sulfonic acids, petroleum, calcium salts: 96 h LC50 (fish) > 10000 mg/l. Oil: practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/ErC50 > 100 mg/l.) Bis(nonylphenyl)amine: 96 h LC50 (fish) < 1000 mg/l.

### 12.2. Persistence and degradability

Oil: not readily biodegradable. 4,4'-Methylene bis(dibutyldithiocarbamate): not readily biodegradable (OECD 301B, 28 days: 21%). Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts: not readily biodegradable (read-across). Calcium dodecylbenzenesulphonate: readily biodegradable (73%, 28 days). Sulfonic acids, petroleum, calcium salts: not readily biodegradable (8.6%, 28 days).

### 12.3. Bioaccumulative potential

Oil: not expected to bioaccumulate. 4,4'-Methylene bis(dibutyldithiocarbamate): log Kow = 6.73, estimated. Calcium dodecylbenzenesulphonate: BCF = 104 (fish, 21 days); log Kow 3.9 – 6; has the potential to bioaccumulate, however metabolism or physical properties may reduce the bioconcentration or limit bioavailability.

### 12.4. Mobility in soil

Insoluble in water. In determining environmental mobility, consider the product's physical and chemical properties (see Section 9). Oil: expected to exhibit low mobility in soil.

### 12.5. Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

### 12.6. Other adverse effects

None known

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

Incinerate absorbed material with a properly licensed 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:** NOT APPLICABLE

**TDG:** NOT APPLICABLE
**US DOT:** NOT APPLICABLE

**14.2. UN proper shipping name**

**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)**

**ADR/RID/ADN/IMDG/ICAO:** NOT APPLICABLE
**TDG:** NOT APPLICABLE
**US DOT:** NOT APPLICABLE

**14.4. Packing group**

**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. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

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. EU regulations**

**Authorisations under Title VII:** Not applicable

**Restrictions under Title VIII:** None

**Other EU regulations:** None

**15.1.2. National regulations**

**US EPA SARA TITLE III**

| 312 Hazards: | 313 Chemicals: |
|---|---|
| None | None |

**Other national regulations:** None

**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 Chemical Information System (HCIS)
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] / GHS:**

| Classification | Classification procedure |
|---|---|
| Not applicable | Not applicable |

**Relevant H-statements:**

H302: Harmful if swallowed.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H413: May cause long lasting harmful effects to aquatic life.

**Hazard pictogram names:** Not applicable

**Changes to the SDS in this revision:** Sections 1.4, 2.1, 2.2, 3, 4.1, 4.2, 5.3, 8.1, 11, 12.1, 12.2, 12.3, 12.4, 15.1.2, 16.

**Date of last revision:** 12 June 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.