# SAFETY DATA SHEET


<table>
<thead>
<tr>
<th>Revision date:</th>
<th>26 April 2018</th>
<th>Initial date of issue:</th>
<th>5 July 2007</th>
<th>SDS No.</th>
<th>417-5a</th>
</tr>
</thead>
</table>

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

### 1.1. Product identifier
633 SXCM Synthetic, Extreme Pressure, Corrosion Resistant Grease with Moly

### 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

### 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


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.

**2.1.2. Classification according to Directives 1999/45/EC and 1975/324/EEC**

This product does not meet the criteria for classification in any danger category according to Directive 1999/45/EC on classification, packaging and labelling of dangerous preparations.

**2.1.3. Classification according to WHMIS 1988**

Not controlled

**2.1.4. Australian statement of hazardous nature**

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

**2.1.5. Additional information**

None

### 2.2. Label elements


- Hazard pictograms: N/A
- Signal word: None
- Hazard statements: None
- Precautionary statements: None
Supplemental information: None

2.3. Other hazards
Direct contact may cause mild eye and skin irritation.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

<table>
<thead>
<tr>
<th>Hazardous Ingredients¹</th>
<th>% Wt.</th>
<th>CAS No./EC No.</th>
<th>REACH Reg. No.</th>
<th>Classification (CLP/GHS)</th>
<th>Classification (67/548/EEC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Molybdenum Disulfide</td>
<td>3-7</td>
<td>1317-33-5, 215-263-9</td>
<td>NA</td>
<td>Not classified</td>
<td>Not classified</td>
</tr>
<tr>
<td>Other ingredients¹:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Baseoil – unspecified*</td>
<td>40-60</td>
<td>** 1317-65-3, 215-279-6</td>
<td>NA</td>
<td>Not classified</td>
<td>Not classified</td>
</tr>
<tr>
<td>Calcium carbonate</td>
<td>10-20</td>
<td>** 1317-65-3, 215-279-6</td>
<td>NA</td>
<td>Not classified***</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

Indications of danger acc. to 67/548/EEC: Not applicable
For full text of H-statements and R-phrases: see SECTION 16.
¹ Contains less than 3 % DMSO extract as measured by IP 346.
² The base oil for this product can be a mixture of any of the following highly refined petroleum streams: CAS No. 64741-88-4, 64741-89-5, 64741-96-4, 64741-97-5, 64742-01-4, 64742-52-5, 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-57-0, 64742-62-7, 64742-63-8, 64742-65-0, 72623-83-7, 72623-85-9, 72623-86-0, 72623-87-1
³ Substance with a workplace exposure limit.

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

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: FIRE-FIGHTING MEASURES

5.1. Extinguishing media
Carbon Dioxide, dry chemical or water spray

5.2. Special hazards arising from the substance or mixture
None

5.3. Advice for firefighters
Cool exposed containers with water. Recommend Firefighters wear self-contained breathing apparatus.

Flammability Classification: –
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. 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

<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>Molybdenum Disulfide</td>
<td>–</td>
<td>10</td>
<td>(inhal) 10</td>
<td>3</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>10</td>
</tr>
<tr>
<td>Oil mist, mineral</td>
<td>–</td>
<td>5</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>5</td>
</tr>
<tr>
<td>Calcium carbonate (total)</td>
<td>–</td>
<td>15</td>
<td>(inhal) 10</td>
<td>3</td>
<td>10</td>
<td>–</td>
<td>–</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>(resp)</td>
<td>5</td>
<td>(resp) 10</td>
<td>(resp) 3</td>
<td>4</td>
<td>–</td>
<td>–</td>
<td>4</td>
</tr>
</tbody>
</table>

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
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: Impervious gloves and clothing as necessary for repetitive, prolonged contact with liquid.

8.2.3. Environmental exposure controls
Refer to sections 6 and 12.
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>semi-solid</td>
</tr>
<tr>
<td>Colour</td>
<td>silver-gray</td>
</tr>
<tr>
<td>Initial boiling point</td>
<td>not applicable</td>
</tr>
<tr>
<td>Melting point</td>
<td>288°C (550°F)</td>
</tr>
<tr>
<td>% Volatile (by volume)</td>
<td>negligible</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 149°C (&gt; 300°F)</td>
</tr>
<tr>
<td>Method</td>
<td>PM Closed Cup</td>
</tr>
<tr>
<td>Viscosity</td>
<td>not determined</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>not determined</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>no data available</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>not determined</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>not applicable</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>not applicable</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>mild</td>
</tr>
<tr>
<td>Vapour pressure @ 20°C</td>
<td>&lt; 0.01 mm Hg</td>
</tr>
<tr>
<td>% Aromatics by weight</td>
<td>0%</td>
</tr>
<tr>
<td>pH</td>
<td>not applicable</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.89 kg/l</td>
</tr>
<tr>
<td>Weight per volume</td>
<td>7.4 lbs/gal.</td>
</tr>
<tr>
<td>Coefficient (water/oil)</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>Vapour density (air=1)</td>
<td>&gt; 1</td>
</tr>
<tr>
<td>Rate of evaporation (ether=1)</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>insoluble</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>not determined</td>
</tr>
</tbody>
</table>

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 and red hot surfaces.

10.5. Incompatible materials
Acids 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 effects: Direct contact may cause mild eye and skin irritation. LD50 oral > 5000 mg/kg, estimated. LD50 dermal > 2000 mg/kg, estimated. LC50 inhalation > 5 mg/l (mist, estimated).

Chronic effects: Prolonged or repeated skin contact may defat the skin and cause dermatitis.

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.

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
Baseoil: practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/ErC50 > 100 mg/l).

12.2. Persistence and degradability
Baseoil: inherently biodegradable, not readily biodegradable.
12.3. Bioaccumulative potential
Baseoil: log Kow > 5.3; has the potential to bioaccumulate, however metabolism or physical properties may reduce the bioconcentration or limit bioavailability.

12.4. Mobility in soil
Semi-solid. Insoluble in water. In determining environmental mobility, consider the product's physical and chemical properties (see Section 9). Baseoil: 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. Check local, state and national/federal regulations and comply with the most stringent requirement. Unused product is not 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: Immediate
313 Chemicals: None

Hazardous Materials Identification System (HMIS)

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>PHYSICAL HAZARD</th>
<th>PERSONAL PROTECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>1</td>
<td>*</td>
</tr>
</tbody>
</table>

4 = Severe Hazard
3 = Serious Hazard
2 = Moderate Hazard
1 = Slight Hazard
0 = Minimal Hazard

* = See Section 8

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
- 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
- NOAEL: No Observed Adverse Effect Level
- 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)
- RID: Regulations concerning the International Carriage of Dangerous Goods by Rail
- SDS: Safety Data Sheet
- STEL: Short Term Exposure Limit
- STOT: Specific Target Organ Toxicity
- TDG: Transportation of Dangerous Goods (Canada)
- 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 de la santé et de la sécurité du travail (CSST)
- 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:

<table>
<thead>
<tr>
<th>Classification</th>
<th>Classification procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

Relevant H-statements: None

Relevant R-phrases: None

Hazard pictogram names: None

Changes to the SDS in this revision: Section 1.3, 16.

Date of last revision: 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.