

## SAFETY DATA SHEET

in accordance with 29 CFR 1910.1200, WHMIS 2015 and Safe Work Australia

**Revision date:** 3 May 2023

**Date of previous issue:** 2 May 2018

**SDS No.** 116B-22

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

**1.1. Product identifier**

651 Detergent Lubricating Oil (Bulk)

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

**Relevant identified uses:** Petroleum base lubricant.

**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 Fax: +1 978-469-6785  
 (Mon. - Fri. 8:30 - 5:00 PM EST)  
 SDS requests: [www.chesterton.com](http://www.chesterton.com)  
 E-mail (SDS questions): [ProductSDSs@chesterton.com](mailto:ProductSDSs@chesterton.com)  
 E-mail: [customer.service@chesterton.com](mailto: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 2015 / Safe Work Australia / GHS**

Aspiration hazard, Category 1, H304

**2.1.2. Additional information**

None

**2.2. Label elements**

**Labeling according to 29 CFR 1910.1200 / WHMIS 2015 / Safe Work Australia / GHS**

**Hazard pictograms:**



**Signal word:** Danger

**Hazard statements:** H304 May be fatal if swallowed and enters airways.

**Precautionary statements:** P301/310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.  
 P331 Do NOT induce vomiting.  
 P405 Store locked up.  
 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			
<b>3.2. Mixtures</b>			
<b>Hazardous Ingredients<sup>1</sup></b>	<b>% Wt.</b>	<b>CAS No.</b>	<b>GHS Classification</b>
Distillates (petroleum), hydrotreated heavy naphthenic*	70-80	64742-52-5	Asp. Tox. 1, H304
Other ingredients:			
Acetic acid, C11-14-isoalkyl esters, C13-rich	5-10	108419-35-8	Not classified
For full text of H-statements: see SECTION 16. *Contains less than 3 % DMSO extract as measured by IP 346. <sup>1</sup> Classified according to: 29 CFR 1910.1200, 1915, 1916, 1917, Mass. Right-to-Know Law (ch. 40, M.G.L..O. 111F), WHMIS 2015, Safe Work Australia, GHS			
SECTION 4: FIRST AID MEASURES			
<b>4.1. Description of first aid measures</b>			
<b>Inhalation:</b>	Remove to fresh air. If not breathing, administer artificial respiration. Contact physician.		
<b>Skin contact:</b>	Wash skin with soap and water. Contact physician if irritation persists.		
<b>Eye contact:</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
<b>Ingestion:</b>	Do not induce vomiting. Contact physician immediately.		
<b>Protection of first-aiders:</b>	No action shall be taken involving any personal risk or without suitable training. Do not ingest. See section 8.2.2 for recommendations on personal protective equipment.		
<b>4.2. Most important symptoms and effects, both acute and delayed</b>			
Aspiration into the lungs may cause chemical pneumonitis or pulmonary oedema. Direct eye contact may cause eye irritation. High vapor concentration can cause eye and respiratory irritation, headache and dizziness. Prolonged or repeated skin contact may defat the skin and cause skin irritation.			
<b>4.3. Indication of any immediate medical attention and special treatment needed</b>			
Treat symptoms.			
SECTION 5: FIRE-FIGHTING MEASURES			
<b>5.1. Extinguishing media</b>			
<b>Suitable extinguishing media:</b>	Carbon dioxide, dry chemical or foam		
<b>Unsuitable extinguishing media:</b>	High volume water jet		
<b>5.2. Special hazards arising from the substance or mixture</b>			
<b>Hazardous combustion products:</b>	Carbon Monoxide, Carbon Dioxide and other toxic fumes.		
<b>Other hazards:</b>	None		
<b>5.3. Advice for firefighters</b>			
Cool exposed containers with water. Recommend Firefighters wear self-contained breathing apparatus.			
<b>Australian HAZCHEM Emergency Action Code:</b>	3 Z		
SECTION 6: ACCIDENTAL RELEASE MEASURES			
<b>6.1. Personal precautions, protective equipment and emergency procedures</b>			
Cordon off spill area. Surfaces can be slippery. Provide adequate ventilation. Utilize exposure controls and personal protection as specified in Section 8.			
<b>6.2. Environmental Precautions</b>			
Keep out of sewers, streams and waterways.			
<b>6.3. Methods and material for containment and cleaning up</b>			
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.

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

Keep container closed when not in use. 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 <sup>1</sup>		ACGIH TLV <sup>2</sup>		AUSTRALIA ES <sup>3</sup>	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Oil mist, mineral	N/A	5	N/A	5	N/A	5
Oxo-Alcohol Acetic Acid Ester*	N/A	N/A	N/A	N/A	N/A	N/A

\*Chesterton recommended limit, 8-hr TWA: 50 ppm, 10 mg/m<sup>3</sup>.

<sup>1</sup> United States Occupational Health & Safety Administration permissible exposure limits

<sup>2</sup> American Conference of Governmental Industrial Hygienists threshold limit values

<sup>3</sup> 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 a half or full-face respirator with combined dust/organic vapour filter (EN filter type A/P).

**Protective gloves:** Chemical resistant gloves (e.g. Viton\*, neoprene, nitrile). \*DuPont's registered trademark.

**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****9.1. Information on basic physical and chemical properties**

<b>Physical state</b>	low viscosity liquid	<b>pH</b>	not applicable
<b>Colour</b>	amber	<b>Kinematic viscosity</b>	16.8 mm <sup>2</sup> /s @ 40°C
<b>Odour</b>	mild petroleum odor	<b>Solubility in water</b>	slightly soluble
<b>Odour threshold</b>	not determined	<b>Partition coefficient n-octanol/water (log value)</b>	not applicable
<b>Boiling point or range</b>	220°C (428°F)	<b>Vapour pressure @ 20°C</b>	not determined
<b>Melting point/freezing point</b>	not determined	<b>Density and/or relative density</b>	0.9 kg/l
<b>% Volatile (by volume)</b>	9%	<b>Weight per volume</b>	7.5 lbs/gal.
<b>Flammability</b>	not determined	<b>Vapour density (air=1)</b>	> 1
<b>Lower/upper flammability or explosion limits</b>	not determined	<b>Rate of evaporation (ether=1)</b>	< 1
<b>Flash point</b>	144°C (290°F)	<b>% Aromatics by weight</b>	< 1%
<b>Method</b>	PM Closed Cup	<b>Particle characteristics</b>	not applicable
<b>Autoignition temperature</b>	not determined	<b>Explosive properties</b>	not determined
<b>Decomposition temperature</b>	not determined	<b>Oxidising properties</b>	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**

Caustics, 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
Distillates (petroleum), hydrotreated heavy naphthenic	LD50, rat	> 5000 mg/kg, estimated
Acetic acid, C11-14-isoalkyl esters, C13-rich	LD50, rat	> 5000 mg/kg

**Dermal:**

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

Substance	Test	Result
Distillates (petroleum), hydrotreated heavy naphthenic	LD50, rat	> 2000 mg/kg, estimated
Acetic acid, C11-14-isoalkyl esters, C13-rich	LD50, rabbit	> 3160 mg/kg

**Inhalation:** High vapor concentration can cause eye and respiratory irritation, headache and dizziness.

Substance	Test	Result
Distillates (petroleum), hydrotreated heavy naphthenic	LC50, rat, 4 hours	> 5 mg/l (mist) estimated

**Skin corrosion/irritation:** Prolonged or repeated skin contact may defat the skin and cause skin irritation.

Substance	Test	Result
Distillates (petroleum), hydrotreated heavy naphthenic	Skin irritation, rabbit	< 0.5 / 8.0, estimated
Acetic acid, C11-14-isoalkyl esters, C13-rich	Skin irritation, rabbit	Slightly irritating

**Serious eye damage/irritation:** Direct eye contact may cause eye irritation.

Substance	Test	Result
Distillates (petroleum), hydrotreated heavy naphthenic	Eye irritation, rabbit	< 15 / 110, estimated
Acetic acid, C11-14-isoalkyl esters, C13-rich	Eye irritation	Slightly irritating

**Respiratory or skin sensitisation:** Distillates (petroleum), hydrotreated heavy naphthenic: Skin sensitization is indicated as non-sensitizing based on data from similar products. Acetic acid, C11-14-isoalkyl esters, C13-rich: did not produce any evidence of skin irritation or skin sensitization response in a repeated insult patch test in human volunteers.

**Germ cell mutagenicity:** Distillates (petroleum), hydrotreated heavy naphthenic: this substance is considered non-mutagenic and has a negative potential for tumor development based on results from the Modified Ames Assay, with a Mutagenic Index of less than 1.0. Acetic acid, C11-14-isoalkyl esters, C13-rich: expected to be non-mutagenic based on data from similar materials.

**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:** Distillates (petroleum), hydrotreated heavy naphthenic: based on available data, the classification criteria are not met. Acetic acid, C11-14-isoalkyl esters, C13-rich, maternal NOAEL, rat: 500 mg/kg/day; developmental NOAEL, rat: 2500 mg/kg/day.

**STOT – single exposure:** Distillates (petroleum), hydrotreated heavy naphthenic: no data available.

**STOT – repeated exposure:** Distillates (petroleum), hydrotreated heavy naphthenic: based on available data, the classification criteria are not met. Acetic acid, C11-14-isoalkyl esters, C13-rich, NOAEL, 90-day oral subchronic study, rat: 500 mg/kg/day.

**Aspiration hazard:** May be fatal if swallowed and enters airways.

**Other information:** None

## 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

Distillates (petroleum), hydrotreated heavy naphthenic: available data indicate this product is not acutely toxic. Polyoxyethylene oleyl ether phosphate: Harmful to aquatic life with long lasting effects (algae, based on data from similar materials).

### 12.2. Persistence and degradability

Distillates (petroleum), hydrotreated heavy naphthenic: 31% biodegradation (OECD 301F, 28 days). Acetic acid, C11-14-isoalkyl esters, C13-rich: expected to biodegrade slowly in soil and water.

### 12.3. Bioaccumulative potential

Distillates (petroleum), hydrotreated heavy naphthenic: not expected to bioaccumulate. Acetic acid, C11-14-isoalkyl esters, C13-rich: expected to bioaccumulate.

### 12.4. Mobility in soil

Low viscosity liquid. Slightly soluble in water. In determining environmental mobility, consider the product's physical and chemical properties (see Section 9). Distillates (petroleum), hydrotreated heavy naphthenic: large volumes may penetrate soil and contaminate groundwater. Acetic acid, C11-14-isoalkyl esters, C13-rich: expected to have high affinity for adsorption to soil and sediments

**12.5. Other adverse effects**

None known

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

Incinerate absorbed material with a properly licensed facility. Free product should be incinerated or may be amenable to fuels blending. 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:**

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

Aspiration hazard

None

TSCA: All components are listed or exempted.

**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](http://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
Asp. Tox. 1, H304	On basis of components and test data

**Relevant H-statements:** H304: May be fatal if swallowed and enters airways.

**Hazard pictogram names:** Health hazard

**Further information:** None

**Date of last revision:** 3 May 2023

**Changes to the SDS in this revision:** Sections 1.2, 1.3, 2.1, 3.2, 5.2, 5.3, 8.1, 9.1, 9.2, 11, 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.