SAFETY DATA SHEET

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

Revision date: 28 March 2023 **Date of previous issue:** 12 January 2022 **SDS No.** 452-5

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

1.1. Product identifier

615 HTG #2 460

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

Relevant identified uses: Petroleum base lubricant. Superior multi-purpose grease for heavy loads and high heat.

Uses advised against: None

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
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 2015 / Safe Work Australia / GHS

Acute toxicity, Category 5, H313
Eye irritation, Category 2A, H319

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: Warning

Hazard statements:
May be harmful in contact with skin.
Causes serious eye irritation.

Precautionary statements:

P264	Wash face, hands and any exposed skin thoroughly after handling.
P280	Wear eye/face protection.
P312	Call a POISON CENTER or doctor if you feel unwell.
P305/351/338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337/313	If eye irritation persists: Get medical advice/attention.

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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(dibutyldithiocarbamate)	2.5 - 5	10254-57-6	Aquatic Chronic 4, H413
Calcium dodecylbenzenesulphonate	2.5 - 5	68584-23-6	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 4, H413
Other ingredients:			
Calcium carbonate	2.5 - 5	471-34-1	Not classified*

For full text of H-statements: see SECTIONS 2.2 and 16.
*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), WHMIS 2015, Safe Work Australia, GHS

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation: Remove to fresh air.

Skin contact: Wash skin with soap and water. Consult physician if irritation develops.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Consult physician if irritation develops or persists.

Ingestion: Do not induce vomiting. If person is conscious, wash out mouth with water and give plenty of water to drink. Contact physician.

Protection of first-aiders: Avoid contact with skin, eyes or clothing. See section 8.2.2 for recommendations on personal protective equipment.

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

Causes serious eye irritation.

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

Treat symptoms. 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

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, dry chemical, dry sand

Unsuitable extinguishing media: Water jets

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products: Thermal decomposition may produce Carbon Monoxide, Carbon Dioxide, aldehydes and other toxic fumes.

Other hazards: None noted

5.3. Advice for firefighters

Cool exposed containers with water. Recommend Firefighters wear self-contained breathing apparatus and complete fire service protective equipment.

Australian 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.

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6.3. Methods and material for containment and cleaning up

Cover spill with non-combustible absorbent material (e.g., sand, clay, etc.) and scoop up and transfer to 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

Avoid contact with skin, eyes or clothing. Utilize exposure controls and personal protection as specified in Section 8. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, dry and well-ventilated 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/m³	ppm	mg/m³	ppm	mg/m³
4,4'-Methylene bis(dibutyldithiocarbamate)	N/A	N/A	N/A	N/A	N/A	N/A
Calcium dodecylbenzenesulphonate	N/A	N/A	N/A	N/A	N/A	N/A
Calcium carbonate	(total) (resp.)	15 5	(inhal.) (resp.)	10 * 3	N/A	10

* Particles Not Otherwise Specified (PNOS)
[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.

8.2.2. Individual protection measures

Respiratory protection: Not normally needed.

Protective gloves: Oil impervious gloves (e.g. nitrile).

Eye and face protection: Safety glasses with side-shields.

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.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	grease	**pH**	not applicable
Colour	tan	**Kinematic viscosity**	460 cSt @ 40°C
Odour	mild	**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**	1.04 kg/l
% Volatile (by volume)	not determined	**Weight per volume**	8.68 lbs/gal.
Flammability	not determined	**Vapour density (air=1)**	not determined
Lower/upper flammability or explosion limits	not determined	**Rate of evaporation (ether=1)**	not determined
Flash point	231°C (448°F)	**% Aromatics by weight**	0%
Method	ASTM D3828	**Particle characteristics**	not applicable
Autoignition temperature	not determined	**Explosive properties**	not determined
Decomposition temperature	not determined	**Oxidising 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

Temperatures above 204°C (400°F).

10.5. Incompatible materials

Strong oxidizers.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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
Calcium dodecylbenzenesulphonate	LD50, rat	1,300 mg/kg
Calcium carbonate	LD50, rat	6,450 mg/kg

Dermal: May be harmful in contact with skin. ATE-mix = 2,384 mg/kg.

Substance	Test	Result
4,4'-Methylene bis(dibutyldithiocarbamate)	LD50, rabbit	> 2,000 mg/kg
Calcium dodecylbenzenesulphonate	LD50, rat	> 5,000 mg/kg (read-across)

Inhalation: Not expected to cause toxicity.

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

Substance	Test	Result
Calcium dodecylbenzenesulphonate	Skin irritation, rabbit (OECD 404)	Irritating

Serious eye damage/ irritation: Causes serious eye irritation, based on component data.

Substance	Test	Result
Calcium dodecylbenzenesulphonate	Eye irritation, rabbit (OECD 405)	Severe irritation

Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.

Substance	Test	Result
Calcium dodecylbenzenesulphonate	Skin sensitization, guinea pig (OECD 406)	Not sensitizing

Germ cell mutagenicity: 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: Based on available data, the classification criteria are not met.

Substance	Test	Result
Calcium dodecylbenzenesulphonate	rat, male/female, oral, 20 days	maternal NOAEL: 300 mg/kg developmental NOAEL: 300 mg/kg

STOT – single exposure: Based on available data, the classification criteria are not met.

STOT – repeated exposure: Based on available data, the classification criteria are not met.

Substance	Test	Result
Calcium dodecylbenzenesulphonate	180-day oral subchronic study, rat, male/female	LOAEL: 115 mg/kg
Calcium dodecylbenzenesulphonate	rat, male/female, 30 days	LOAEL: 250 mg/kg

Aspiration hazard: Based on available data, the classification criteria are not met.

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

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).

12.2. Persistence and degradability

Oil products, improperly released to the environment, can cause ground and water pollution. 4,4'-Methylene bis(dibutyldithiocarbamate): not readily biodegradable (OECD 301B, 28 days: 21%). Calcium dodecylbenzenesulphonate: readily biodegradable (73%, 28 days).

12.3. Bioaccumulative potential

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. Expected to adsorb to soils and sediments.

12.5. Other adverse effects

None known

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SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Incinerate with a properly licensed 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

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:**
Eye irritation	None

TSCA: All components are listed or exempted.

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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
Acute Tox. 5, H313	Calculation method
Eye Irrit. 2A, H319	Calculation method

Relevant H-statements:
H302: Harmful if swallowed.
H315: Causes skin irritation.
H318: Causes serious eye damage.
H413: May cause long lasting harmful effects to aquatic life.

Hazard pictogram names: Exclamation mark

Further information: None

Date of last revision: 28 March 2023

Changes to the SDS in this revision: Sections 1.2, 2.1, 2.2, 3.2, 4.1, 4.2, 5.2, 5.3, 6.3, 7.1, 8.1, 8.2.2, 9.1, 10.4, 11, 12.1, 12.2, 12.3, 12.4, 13.1, 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.

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