SAFETY DATA SHEET

in accordance with 29 CFR 1910.1200 / WHMIS 2022

Revision date: 28 May 2024 **Date of previous issue:** 22 April 2022 **SDS No.** 480-1

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

1.1. Product identifier

638 EMG 46 # 2 Electric Motor Grease

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

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

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

Canada: A.W. Chesterton Company Ltd., 889 Fraser Drive,
Unit 105, Burlington, Ontario L7L 4X8 – Tel. 905-335-5055

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)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

2.1.1. Classification according to 29 CFR 1910.1200 / WHMIS 2022

Reproductive toxicity, Category 2, H361f

2.1.2. Additional information

For full text of H-statements: see SECTION 2.2.

2.2. Label elements

Labeling according to 29 CFR 1910.1200 / WHMIS 2022

Hazard pictograms:

Signal word: Warning

Hazard statements:	H361f	Suspected of damaging fertility.
Precautionary statements:	P201	Obtain special instructions before use.
	P202	Do not handle until all safety precautions have been read and understood.
	P280	Wear protective gloves and eye protection.
	P308/313	IF exposed or concerned: Get medical advice/attention.
	P405	Store locked up.
	P501	Dispose of contents/container to an approved waste disposal plant.

Supplemental information: None

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2.3. Other hazards

None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Hazardous Ingredients[1]	% Wt.	CAS No.
Dec-1-ene, oligomers, hydrogenated	50 - < 70	68037-01-4
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	1 - 5	68584-23-6
Calcium dodecylbenzenesulphonate	1 - < 3	26264-06-2
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	1 - 2	68411-46-1
Sulfonic acids, petroleum, calcium salts	1 - 2	61789-86-4
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	0.1 - <1	70024-69-0
Other ingredients:		
Calcium carbonate	10 - 20	471-34-1
Baseoil – unspecified*	10 - <20	64742-70-7 64742-65-0

*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)
• WHMIS 2022, GHS

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: Rinse cautiously with water. Remove contact lenses, if present and easy to do. Continue rinsing. Contact physician if irritation persists.

Ingestion: Do not induce vomiting. Contact physician.

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.

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

Suitable extinguishing media: Water spray, alcohol-resistant foam, dry chemical, or carbon dioxide

Unsuitable extinguishing media: High volume water jet

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products: Carbon Monoxide, Carbon Dioxide, oxides of Nitrogen and Sulfur and other toxic fumes.

Other hazards: Do not allow runoff from firefighting to enter drains or water courses.

5.3. Advice for firefighters

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

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

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. 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]	
	ppm	mg/m^3	ppm	mg/m^3
Dec-1-ene, oligomers, hydrogenated	N/A	N/A	N/A	N/A
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	N/A	N/A	N/A	N/A
Calcium dodecylbenzenesulphonate	N/A	N/A	N/A	N/A
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	N/A	N/A	N/A	N/A
Sulfonic acids, petroleum, calcium salts	N/A	N/A	N/A	N/A
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	N/A	N/A	N/A	N/A
Calcium carbonate	(total) (resp.)	15 5	(inhal.) (resp.)	10 * 3
Baseoil – unspecified	N/A	5	N/A	5

* 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

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.

Protective gloves: Chemical resistant gloves (e.g., neoprene)

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.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	semi-solid	**pH**	not applicable
Colour	cream	**Kinematic viscosity**	46 cSt @ 40°C (base oil)
Odour	mild	**Solubility in water**	insoluble
Odour threshold	not determined	**Partition coefficient n-octanol/water (log value)**	not applicable
Boiling point or range	not applicable	**Vapour pressure @ 20°C**	not determined
Melting point/freezing point	> 204°C (> 400°F)	**Density and/or relative density**	1.0 kg/l
% Volatile (by volume)	negligible	**Weight per volume**	8.3 lbs/gal.
Flammability	no data available	**Vapour density (air=1)**	> 1
Lower/upper flammability or explosion limits	not determined	**Rate of evaporation (ether=1)**	< 1
Flash point	> 180°C (> 356°F)	**% Aromatics by weight**	0
Method	Open Cup	**Particle characteristics**	not applicable
Autoignition temperature	not determined	**Explosive properties**	not determined
Decomposition temperature	no data available	**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

Open flames and red hot surfaces.

10.5. Incompatible materials

Strong oxidizers like liquid Chlorine and concentrated Oxygen.

10.6. Hazardous decomposition products

Oxides of Carbon, 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 > 5000 mg/kg

Substance	Test	Result
Dec-1-ene, oligomers, hydrogenated	LD50, rat, (OECD 423)	> 5000 mg/kg
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	LD50, rat, (OECD 401)	> 5000 mg/kg
Calcium dodecylbenzenesulphonate	LD50, rat	1300 mg/kg
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	LD50, rat, (OECD 401)	> 2000 mg/kg
Sulfonic acids, petroleum, calcium salts	LD50, rat	> 5000 mg/kg
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	LD50, rat, (OECD 401)	> 5000 mg/kg
Baseoil	LD50, rat, (OECD 401)	> 5000 mg/kg (similar material)

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Dermal: ATE-mix > 5000 mg/kg

Substance	Test	Result
Dec-1-ene, oligomers, hydrogenated	LD50, rat (OECD 402)	> 2000 mg/kg (similar material)
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	LD50, rabbit	> 5000 mg/kg
Calcium dodecylbenzenesulphonate	LD50, rat	> 5000 mg/kg (similar material)
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	LD50, rat	> 2000 mg/kg
Sulfonic acids, petroleum, calcium salts	LD50, rat (OECD 402)	> 5000 mg/kg
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	LD50, rat (OECD 402)	> 5000 mg/kg
Baseoil	LD50, rat, (OECD 402)	> 2000 mg/kg (similar material)

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

Substance	Test	Result
Dec-1-ene, oligomers, hydrogenated	LC50, rat, mist, 4 h (OECD 403)	> 5.2 mg/l
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	LC50, rat, mist, 4 h (OPP 81-3)	> 1.9 mg/l
Sulfonic acids, petroleum, calcium salts	LC50, rat, mist, 4 h (OPP 81-3)	> 1.9 mg/l
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	LC50, rat, mist, 4 h (OPP 81-3)	> 1.9 mg/l
Baseoil	LC50, rat, mist, 4 h (OECD 403)	> 5.53 mg/l (similar material)

Skin corrosion/irritation: Not classified, based on data from similar materials.

Substance	Test	Result
Dec-1-ene, oligomers, hydrogenated	Skin irritation, rabbit (OECD 404)	Not irritating
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	Skin irritation, rabbit (OECD 404)	Not irritating
Calcium dodecylbenzenesulphonate	Skin irritation, rabbit (OECD 404)	Irritating
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	Skin irritation, rabbit (OECD 404)	Not irritating
Sulfonic acids, petroleum, calcium salts	Skin irritation, rabbit (OECD 404)	Not irritating
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	Skin irritation, rabbit	Not irritating

Serious eye damage/ irritation: Not classified, based on data from similar materials. May cause mild eye irritation.

Substance	Test	Result
Dec-1-ene, oligomers, hydrogenated	Eye irritation, rabbit (OECD 405)	Not irritating
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	Eye irritation, rabbit (OECD 405)	Not irritating
Calcium dodecylbenzenesulphonate	Eye irritation, rabbit (OECD 405)	Severe irritation
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	Eye irritation, rabbit (OECD 405)	Not irritating
Sulfonic acids, petroleum, calcium salts	Eye irritation, rabbit	Not irritating
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	Eye irritation, rabbit	Not irritating

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Respiratory or skin sensitisation: Does not cause skin sensitisation, based on data from similar materials.

Substance	Test	Result
Dec-1-ene, oligomers, hydrogenated	Skin sensitization, guinea pig (OECD 406)	Not sensitizing
Baseoil	Skin sensitization, guinea pig (OECD 406)	Not sensitizing (similar material)
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	Skin sensitization, guinea pig	Sensitizing weak
Calcium dodecylbenzenesulphonate	Skin sensitization, guinea pig (OECD 406)	Not sensitizing
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	Skin sensitization, guinea pig (OECD 406)	Not sensitizing
Sulfonic acids, petroleum, calcium salts	Skin sensitization, guinea pig	Sensitizing weak
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	Skin sensitization, mouse (OECD 429)	Sensitizing weak

Germ cell mutagenicity: Not classified, based on available data. Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene Ames test: negative.

Substance	Test	Result
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	Ames test (OECD 471)	negative (similar material)
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	In vitro test, OECD 476	negative (similar material)
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	Micronucleus test, mouse, oral	negative
Calcium dodecylbenzenesulphonate	Ames test (QSAR)	negative
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	Ames test	negative
Sulfonic acids, petroleum, calcium salts	Ames test (OECD 471)	negative (similar material)
Sulfonic acids, petroleum, calcium salts	In vitro test, OECD 476	negative (similar material)
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	Ames test (OECD 471)	negative
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	In vitro test, OECD 476	negative
Baseoil	bacteria, OECD 471	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 the European Chemicals Agency (ECHA).

Reproductive toxicity: Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene has produced effects on fertility in an animal ingestion study. Calcium carbonate: in animal studies, did not interfere with reproduction.

Substance	Test	Result
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	415, rat, male/female, oral, 28 days	NOAEL >= 500 mg/kg (similar material)
Calcium dodecylbenzenesulphonate	rat, male/female, oral, 20 days	maternal NOAEL: 300 mg/kg developmental NOAEL: 300 mg/kg
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	rat, male/female, oral, 1 generation, OECD 443	Effects on fertility

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

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STOT – repeated exposure: Not classified, based on available data. Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts: based on available data, the classification criteria are not met.

Substance	Test	Result
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	28-day oral subchronic study (OECD 407) rat, male/female	NOAEL: 500 mg/kg (similar material)
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

Dec-1-ene, oligomers, hydrogenated: 96 h LC50 (fish) > 1000 mg/. 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: 48 h EC50 (for daphnia) = > 100 mg/l (OECD 203).

12.2. Persistence and degradability

Dec-1-ene, oligomers, hydrogenated, Mineral oil: not readily biodegradable. Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts: not readily biodegradable (read-across). Calcium dodecylbenzenesulphonate: readily biodegradable. Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene: not readily biodegradable (CO2 Evolution Test).

12.3. Bioaccumulative potential

Mineral oil: not expected to bioaccumulate. Calcium dodecylbenzenesulphonate: BCF = 104 (fish, 21 days).

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). Oil products, improperly released to the environment, can cause ground and water pollution.

12.5. Endocrine disrupting properties

None known

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.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number or ID number

RID/IMDG/ICAO: NOT APPLICABLE
TDG: NOT APPLICABLE
US DOT: NOT APPLICABLE

14.2. UN proper shipping name

RID/IMDG/ICAO: NON-HAZARDOUS, NON REGULATED
TDG: NON-HAZARDOUS, NON REGULATED
US DOT: NON-HAZARDOUS, NON REGULATED

14.3. Transport hazard class(es)

RID/IMDG/ICAO: NOT APPLICABLE
TDG: NOT APPLICABLE
US DOT: NOT APPLICABLE

14.4. Packing group

RID/IMDG/ICAO: NOT APPLICABLE
TDG: NOT APPLICABLE
US DOT: NOT APPLICABLE

14.5. Environmental hazards

NOT APPLICABLE

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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:**
Reproductive toxicity	None

TSCA: All components are listed or exempted.

Other national regulations: None

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms:
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
Repr. 2, H361f	Calculation method

Relevant H-statements: H361f: Suspected of damaging fertility.

Further information: None

Date of last revision: 28 May 2024

Changes to the SDS in this revision: Sections 2.1, 2.2, 3, 8.1, 11, 12.1, 12.2, 12.3, 15.1, 16.

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