

**SAFETY DATA SHEET**

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

**Revision date:** 9 October 2015      **Initial date of issue:** 9 October 2015      **SDS No.** 188-18

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

**1.1. Product identifier**

622 White Grease

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

Pure mineral oil grease with Polytetrafluoroethylene (PTFE) added. For processing and packaging machinery. A superior quality, clean, multi-purpose grease to lubricate slides, guides, moving parts of equipment in food, beverage, pharmaceutical, textile and other plants processing clean materials or packages.

**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): [ProductMSDSs@chesterton.com](mailto:ProductMSDSs@chesterton.com)  
E-mail: [customer.service@chesterton.com](mailto:customer.service@chesterton.com)

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

Aquatic Chronic 2, H411

**2.1.2. Classification according to WHMIS 1988**

Not controlled

**2.1.3. Australian statement of hazardous nature**

Hazardous according to criteria of Safe Work Australia.

**2.1.4. Additional information**

For full text of H-statements: see SECTIONS 2.2 and 16.

**2.2. Label elements**

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

**Hazard pictograms:**



**Signal word:**

None

**Hazard statements:**

H411

Toxic to aquatic life with long lasting effects.

**Precautionary statements:**

P273

Avoid release to the environment.

P391

Collect spillage.

P501

Dispose of contents/container to an approved waste disposal plant.

**Supplemental information:**

None

**2.3. Other hazards**

When heated to temperatures above 260°C (500°F), perfluorocarbon resins begin to give off vapors that may cause temporary flu-like symptoms if inhaled. Thermal decomposition leads to the formation of oxidized products containing carbon, fluorine and oxygen. The ACGIH states that no exposure limit is recommended pending determination of the toxicity of the products, but air concentration should be minimal. Likewise, when using this product avoid smoking for the same reason. Avoid contamination of tobacco products.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2. Mixtures**

Hazardous Ingredients <sup>1</sup>	% Wt.	CAS No./ EC No.	REACH Reg. No.	CLP/GHS Classification
Zinc oxide	1-5	1314-13-2 215-222-5	NA	Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Other ingredients:

White mineral oil (petroleum)	70-95	8042-47-5 232-455-8	NA	Not classified*
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\*Substance with a workplace exposure limit.  
For full text of H-statements: see SECTION 16.

<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), California Proposition 65  
\* 1272/2008/EC, REACH  
\* WHMIS 2015  
\* Safe Work Australia [NOHSC: 1008 (2004)]

**SECTION 4: FIRST AID MEASURES****4.1. Description of first aid measures**

**Inhalation:** Not applicable

**Skin contact:** Wash skin with soap and water. Contact physician if irritation persists.

**Eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

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

Mild transient skin and eye irritant. Prolonged or repeated skin contact may cause skin 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:** Carbon Dioxide, dry chemical, foam or water spray

**Unsuitable extinguishing media:** High volume water jet

**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 to protect against hazardous decomposition products.

**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**

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**

Remove contaminated clothing. Wash clothing before reuse. Wash thoroughly after handling. Avoid contamination of tobacco products. Do not smoke while using the product. 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 cool, dry area in closed containers.

**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>		UK WEL <sup>3</sup>		AUSTRALIA ES <sup>4</sup>	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Zinc oxide	–	15 (total) 5 (resp)	–	2 (resp) STEL: 10 (resp)	–	–	–	10
White mineral oil (petroleum)	(oil mist)	5	(oil mist)	5	–	–	–	5

<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> EH40 Workplace exposure limits, Health & Safety Executive

<sup>4</sup> 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 using under extreme heat, use local exhaust.

**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 (e.g., EN filter type A/P2).

**Protective gloves:** Chemical resistant gloves (e.g., butyl rubber or neoprene)

**Eye and face protection:** Safety glasses

**Other:** None

**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>	grease	<b>Odour</b>	mild
<b>Colour</b>	white	<b>Odour threshold</b>	not determined
<b>Initial boiling point</b>	not determined	<b>Vapour pressure @ 20°C</b>	not determined
<b>Melting point</b>	not determined	<b>% Aromatics by weight</b>	0%
<b>% Volatile (by volume)</b>	0%	<b>pH</b>	not applicable
<b>Flash point</b>	216°C (420°F)	<b>Relative density</b>	0.95 kg/l
<b>Method</b>	D92	<b>Weight per volume</b>	7.9 lbs/gal.
<b>Viscosity</b>	3.5 million cps @ 25°C	<b>Coefficient (water/oil)</b>	< 1
<b>Autoignition temperature</b>	not determined	<b>Vapour density (air=1)</b>	> 1
<b>Decomposition temperature</b>	no data available	<b>Rate of evaporation (ether=1)</b>	< 1
<b>Upper/lower flammability or explosive limits</b>	not determined	<b>Solubility in water</b>	insoluble
<b>Flammability (solid, gas)</b>	not applicable	<b>Oxidising properties</b>	not applicable
<b>Explosive properties</b>	not applicable		

**9.2. Other information**

EPA 24: 0.15 lbs/gal, 0.18 kg/l

**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**

Extreme heat above 260°C (500°F).

**10.5. Incompatible materials**

Strong oxidizers like liquid Chlorine and concentrated Oxygen.

**10.6. Hazardous decomposition products**

Carbon Monoxide, Carbon Dioxide and other toxic fumes and at temperatures above 260°C (500°F) perfluorocarbon resin 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 > 4000 mg/kg

Substance	Test	Result
Zinc oxide	LD50, rat (OECD 401)	> 5000 mg/kg
White mineral oil (petroleum)	LD50, rat	> 5000 mg/kg

**Dermal:** ATE-mix = 2565 mg/kg

Substance	Test	Result
White mineral oil (petroleum)	LD50, rat	> 2000 mg/kg

**Inhalation:**

Substance	Test	Result
Zinc oxide	LC50, rat, 4 h	> 5.7 mg/l
White mineral oil (petroleum)	LC50, rat, 4 h	> 5 mg/l (mist)

**Skin corrosion/irritation:** Mild transient skin and eye irritant. Prolonged or repeated skin contact may cause skin irritation.

Substance	Test	Result
Zinc oxide	Skin irritation, rabbit (OECD 404)	Not irritating
White mineral oil (petroleum)	Skin irritation, rabbit	Not irritating

**Serious eye damage/irritation:** Mild transient skin and eye irritant.

Substance	Test	Result
Zinc oxide	Eye irritation, rabbit (OECD 405)	Not irritating
White mineral oil (petroleum)	Eye irritation, rabbit	Not irritating

**Respiratory or skin sensitisation:**

Substance	Test	Result
Zinc oxide	Skin sensitization, guinea pig	Not sensitizing
White mineral oil (petroleum)	Skin sensitization, guinea pig	Not sensitizing

**Germ cell mutagenicity:** Zinc oxide, White mineral oil (petroleum): based on available data, the classification criteria are not met.

**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.

**Reproductive toxicity:** Zinc oxide, White mineral oil (petroleum): based on available data, the classification criteria are not met.

**STOT-single exposure:** Zinc oxide, White mineral oil (petroleum): based on available data, the classification criteria are not met.

**STOT-repeated exposure:** Zinc oxide, White mineral oil (petroleum): based on available data, the classification criteria are not met.

**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

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 12.2. Persistence and degradability

Mineral oil: not readily biodegradable (biodegradation, OECD 301B, 28 days: 0-24%). PTFE: nonbiodegradable. Zinc oxide: inorganic substance.

### 12.3. Bioaccumulative potential

The bioaccumulation of Zinc may be important in aquatic environments.

### 12.4. Mobility in soil

Insoluble in water. In determining environmental mobility, consider the product's physical and chemical properties (see Section 9). Mineral oil: 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**

Stabilized and solidified material may be buried in an approved area. 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:** UN3077  
**TDG:** UN3077  
**US DOT:** UN3077

**14.2. UN proper shipping name**

**ADR/RID/ADN/IMDG/ICAO:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC OXIDE)  
**TDG:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC OXIDE)  
**US DOT:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC OXIDE)

**14.3. Transport hazard class(es)**

**ADR/RID/ADN/IMDG/ICAO:** 9  
**TDG:** 9  
**US DOT:** 9

**14.4. Packing group**

**ADR/RID/ADN/IMDG/ICAO:** III  
**TDG:** III  
**US DOT:** III

**14.5. Environmental hazards**

MARINE POLLUTANT

**14.6. Special precautions for user**

NO SPECIAL PRECAUTIONS FOR USER

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

NOT APPLICABLE

**14.8. Other information**

**US DOT:** ERG NO.171,

May be shipped as NON-RESTRICTED in non-bulk packagings (882 lbs. or less) by motor vehicle, rail car or aircraft.  
 (49 CFR 171.4(c))

**IMDG:** EmS. F-A, S-F

May be shipped as NON-RESTRICTED in single or combination packagings containing a net mass per single or inner packaging of 5 kg or less.(IMDG CODE Amendment 37-14, 2.10.2.7)

**ICAO/IATA:** May be shipped as NON-RESTRICTED in single or combination packagings containing a net mass per single or inner packaging of 5 kg or less. (IATA Dangerous Goods Regulation 56<sup>th</sup> edition, 4.4 Special Provisions A197)

**ADR:** Classification code M6 Tunnel restriction code (E)

May be shipped as NON-RESTRICTED in single or combination packagings containing a net mass per single or inner packaging of 5 kg or less. (ADR 2015 Volume 1, Chapter 3.3 Special Provisions 375)

**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:**

Zinc Compound 1-5%

**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  
 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 RE: Specific Target Organ Toxicity, Repeated Exposure  
 STOT SE: Specific Target Organ Toxicity, Single Exposure  
 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](http://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 [CLP] / GHS:**

Classification	Classification procedure
Aquatic Chronic 2, H411	Calculation method

**Relevant H-statements:** H400: Very toxic to aquatic life.  
 H410: Very toxic to aquatic life with long lasting effects.  
 H411: Toxic to aquatic life with long lasting effects.

**Hazard pictogram names:** Environment

**Changes to the SDS in this revision:** Sections 2.1, 3, 4.1, 10.2, 11, 12.3, 15.1.2, 16.

**Revision date:** 9 October 2015

**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.