



**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

Printing date 09.12.2020

Version number 4

Revision: 08.12.2020

\* **SECTION 1: Identification of the substance/mixture and of the company/  
undertaking**

· **1.1 Product identifier**

· **Trade name:** TRW Never Seize Grease

· **Article number:** 32960136.Z, 32960136, 32960177.Z, 32960177

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

No further relevant information available.

· **Application of the substance / the mixture** Lubricant

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

ZF Aftermarket UK Ltd.

Abbeyfield Road

Lenton

Nottingham, NG7 2SX

Tel +44 333 240 1123

Fax +44 115 986 92 61

<https://www.zf.com>

· **Informing department:**

Phone: +49 (0) 7541 77 0

E-Mail adress of the competent person for the safety data sheet:

[reach@dekra.com](mailto:reach@dekra.com)

· **1.4 Emergency telephone number:**

Poison Information Center Munich

Phone: +49 (0) 89 - 19 240

Information in German and English

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**SECTION 2: Hazards identification**

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**



GHS09

· **Signal word** Void

· **Hazard statements**

H411 Toxic to aquatic life with long lasting effects.

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· **Precautionary statements**

P273 Avoid release to the environment.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Labelling of packages where the contents do not exceed 125 ml**

· **Hazard pictograms**



GHS09

· **Signal word** Void

· **Hazard statements** Void

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

**SECTION 3: Composition/information on ingredients**

· **3.2 Mixtures**

· **Description:** Mixture of the substances listed below including additives not requiring identification.

· **Dangerous components:**

CAS: 1314-13-2 EINECS: 215-222-5 Reg.nr.: 01-2119463881-32-X	zinc oxide ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	2.5 - 10%
CAS: 7429-90-5 EINECS: 231-072-3 Reg.nr.: 01-2119529243-45-X	aluminium powder (stabilised) ⚠ Flam. Sol. 1, H228; Water-react. 2, H261	2.5 - 10%
CAS: 7440-50-8 EINECS: 231-159-6 Reg.nr.: 01-2119480154-42-X	copper powder ⚠ Aquatic Acute 1, H400; Aquatic Chronic 3, H412	2.5 - 10%

· **Additional information** For the wording of the listed hazard phrases refer to section 16.

**SECTION 4: First aid measures**

· **4.1 Description of first aid measures**

· **After inhalation** Supply fresh air.

· **After skin contact**

The product is not skin irritating.

Wash with water and soap.

· **After eye contact**

Rinse opened eye for several minutes under running water.

In case of permanent aches and pains please go and see the doctor.

· **After swallowing**

Rinse out mouth and then drink plenty of water.

In case of persistent symptoms consult doctor.

Do not induce vomiting.

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- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
  - **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.
- 

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
  - **Suitable extinguishing agents**  
Extinguishing powder, foam or water jet. Fight larger fires with water jet or alcohol-resistant foam. Use fire fighting measures that suit the environment.
  - **For safety reasons unsuitable extinguishing agents** Water.
  - **5.2 Special hazards arising from the substance or mixture**  
Do not inhale smoke and combustion products.
  - **5.3 Advice for firefighters**
  - **Protective equipment:** Wear self-contained breathing apparatus.
  - **Additional information**  
Collect contaminated fire fighting water separately. It must not enter drains. Provide sufficient fire fighting water retention.  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
- 

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation  
Particular danger of slipping on leaked/spilled product.
  - **6.2 Environmental precautions:**  
Do not allow to enter drainage system, surface or ground water.  
Keep dirty washing water for appropriate disposal.
  - **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, universal binders) and disposal in suitable containers.  
Dispose of the material collected according to regulations.
  - **6.4 Reference to other sections**  
See Section 7 for information on safe handling  
See Section 8 for information on personal protection equipment.  
See Section 13 for information on disposal.
- 

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Don't eat, drink or smoke while working.
  - **Information about protection against explosions and fires:** No special measures required.
  - **7.2 Conditions for safe storage, including any incompatibilities**
  - **Storage**
  - **Requirements to be met by storerooms and containers:** Keep container tightly closed.
  - **Information about storage in one common storage facility:**  
Keep away from food, drink and animal feeding stuffs.
  - **Further information about storage conditions:**  
Store in cool, dry conditions in well sealed containers.
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Storage temperature &lt; 50°C.

Storage stability at least 5 years.

- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**

- **Components with limit values that require monitoring at the workplace:**

WEL: workplace exposure limit

OEL: Occupational Exposure Limit

#### 7429-90-5 aluminium powder (stabilised)

WEL (Great Britain)	Long-term value: 10* 4** mg/m <sup>3</sup> *inhalable dust **respirable dust
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#### 7440-50-8 copper powder

WEL (Great Britain)	Short-term value: 2** mg/m <sup>3</sup> Long-term value: 0.2* 1** mg/m <sup>3</sup> *fume **dusts and mists (as Cu)
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- **DNELs**

#### 1314-13-2 zinc oxide

Oral	DNEL (consumer, long-term, systemic)	0.83 mg/kg bw/day (human)
Dermal	DNEL (worker, long-term, systemic)	83 mg/kg bw/day (human)
	DNEL (consumer, long-term, systemic)	83 mg/kg bw/day (human)
Inhalative	DNEL (worker, long-term, systemic)	5 mg/m <sup>3</sup> (human)
	DNEL (consumer, long-term, systemic)	2.5 mg/m <sup>3</sup> (human)

#### 7440-50-8 copper powder

Dermal	DNEL (worker, short-term, systemic)	273 mg/kg bw/day (human)
	DNEL (worker, long-term, systemic)	137 mg/kg bw/day (human)
	DNEL (consumer, short-term, systemic)	273 mg/kg bw/day (human)
	DNEL (consumer, long-term, systemic)	137 mg/kg bw/day (human)
Inhalative	DNEL (worker, short-term, systemic)	20 mg/m <sup>3</sup> (human)
	DNEL (consumer, short-term, systemic)	20 mg/m <sup>3</sup> (human)
	DNEL (worker, short-term, local)	1 mg/m <sup>3</sup> (human)
	DNEL (worker, long-term, local)	1 mg/m <sup>3</sup> (human)
	DNEL (consumer, short-term, local)	1 mg/m <sup>3</sup> (human)
	DNEL (consumer, long-term, local)	1 mg/m <sup>3</sup> (human)

- **PNECs**

#### 1314-13-2 zinc oxide

PNEC aqua (freshwater)	0.00206 mg/L (.)
PNEC aqua (marine water)	0.00061 mg/L (.)
PNEC STP	0.0052 mg/L (.)
PNEC soil	35.6 mg/kg soil dw (.)
PNEC sediment (freshwater)	117.8 mg/kg sedim. dw (.)
PNEC sediment (marine water)	56.5 mg/kg sedim. dw (.)

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**7440-50-8 copper powder**

PNEC aqua (freshwater)	0.00078 mg/L (.)
PNEC aqua (marine water)	0.00052 mg/L (.)
PNEC STP	0.23 mg/L (.)
PNEC soil	65 mg/kg soil dw (.)
PNEC sediment (freshwater)	87 mg/kg sedim. dw (.)
PNEC sediment (marine water)	676 mg/kg sedim. dw (.)

• **Additional information:** The lists that were valid during the compilation were used as basis.

• **8.2 Exposure controls**

• **Individual protection measures, such as personal protective equipment**

• **General protective and hygienic measures**

Do not eat or drink while working.

Avoid close or long term contact with the skin.

Wash hands during breaks and at the end of the work.

Do not carry cleaning cloths impregnated with the product in trouser pockets.

Take off all contaminated clothing immediately.

• **Breathing equipment:**

Not necessary if room is well-ventilated.

Use breathing protection only when aerosol or mist is formed.

Filter P2.

• **Hand protection**

Protective gloves are only required in case of intense and/or prolonged skin contact with the product.

To avoid skin problems reduce the wearing of gloves to the required minimum.

• **Material of gloves**

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.33$  mm

• **Penetration time of glove material**

In case of a layer thickness of 0.33 mm the penetration time is longer than 480 minutes.

• **Eye/face protection** Not required.

## SECTION 9: Physical and chemical properties

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

• **General Information**

• **Colour:**

Dark grey

• **Odour:**

Characteristic

• **Odour threshold:**

Not determined.

• **Melting point/freezing point:**

Not determined

• **Boiling point or initial boiling point and boiling range**

Not determined

• **Flammability**

Not determined.

• **Flash point:**

210 °C

• **Self-inflammability:**

Product is not selfigniting.

• **Decomposition temperature:**

Not determined.

• **SADT**

• **pH**

Not applicable.

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· <b>Viscosity:</b>	
· <b>Kinematic viscosity</b>	Not applicable.
· <b>dynamic:</b>	Not applicable.
· <b>Solubility</b>	
· <b>Water:</b>	Insoluble
· <b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
· <b>Vapour pressure:</b>	Not applicable.
· <b>Density and/or relative density</b>	
· <b>Density at 20 °C</b>	1.21 g/cm <sup>3</sup>
· <b>Vapour density</b>	Not applicable.
<b>9.2 Other information</b>	
· <b>Appearance:</b>	
· <b>Form:</b>	Pasty
· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Explosive properties:</b>	Product is not explosive.
· <b>Change in condition</b>	
· <b>Evaporation rate</b>	Not applicable.
<b>Information with regard to physical hazard classes</b>	
· <b>Explosives</b>	Void
· <b>Flammable gases</b>	Void
· <b>Aerosols</b>	Void
· <b>Oxidising gases</b>	Void
· <b>Gases under pressure</b>	Void
· <b>Flammable liquids</b>	Void
· <b>Flammable solids</b>	Void
· <b>Self-reactive substances and mixtures</b>	Void
· <b>Pyrophoric liquids</b>	Void
· <b>Pyrophoric solids</b>	Void
· <b>Self-heating substances and mixtures</b>	Void
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
· <b>Oxidising liquids</b>	Void
· <b>Oxidising solids</b>	Void
· <b>Organic peroxides</b>	Void
· <b>Corrosive to metals</b>	Void
· <b>Desensitised explosives</b>	Void

## SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.

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**10.6 Hazardous decomposition products:**

None in case of intended use and storage in compliance with instructions.

### SECTION 11: Toxicological information

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity** Based on available data, the classification criteria are not met.**LD/LC50 values that are relevant for classification:****1314-13-2 zinc oxide**

Oral	LD50	> 5,000 mg/kg (rat) (OECD 401)
Inhalative	LC50	> 5,700 mg/l/4h (rat) (OECD 403)

**7440-50-8 copper powder**

Oral	LD50	> 2,500 mg/kg (rat) (OECD 423)
Dermal	LD50	> 2,000 mg/kg (rat) (OECD 402)
Inhalative	LC50	> 5.11 mg/l/4h (rat) (OECD 436)

- Skin corrosion/irritation** Long-term skin contact may cause skin irritation and/or dermatitis.
- Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- Carcinogenicity** Based on available data, the classification criteria are not met.
- Reproductive toxicity** Based on available data, the classification criteria are not met.
- 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.
- Aspiration hazard** Based on available data, the classification criteria are not met.
- Additional toxicological information:**

**Repeated dose toxicity****1314-13-2 zinc oxide**

Oral	NOAEL (90d)	> 81 mg/kg bw/day (ferret)
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**7440-50-8 copper powder**

Oral	NOAEL (90d)	1,000 mg/kg bw/day (mouse) (EU B.26)
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**11.2 Information on other hazards****Endocrine disrupting properties**

None of the ingredients is listed.

### SECTION 12: Ecological information

**12.1 Toxicity****Aquatic toxicity:****1314-13-2 zinc oxide**

EC50 (static)	2.6 mg/l/48h (Daphnia magna) (OECD 202)
LC50 (static)	1.793 mg/l/96h (Brachydario rerio)
EC50 (static)	0.136 mg/l/72h (Pseudokirchneriella subcapitata)

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**7440-50-8 copper powder**

EC50 (static)	0.792 mg/l/48h (Daphnia magna) (OECD 202)
LC50 (dynamic)	0.2 mg/l/96h (Oncorhynchus mykiss)
NOEC (static)	0.00057 mg/l/72h (Phaeodactylum tricornutum) (ISO 10253)

- **12.2 Persistence and degradability** Not easily biodegradable
- **Other information:** There are no data available about the preparation.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.
- **12.7 Other adverse effects**
- **Remark:**
  - Toxic for fish
  - Toxic for algae
- **Additional ecological information:**
- **General notes:**
  - Also poisonous for fish and plankton in water bodies.
  - Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.
  - Do not allow product to reach ground water, water bodies or sewage system.
  - Danger to drinking water if even small quantities leak into soil.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
  - Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
  - The waste code numbers mentioned are recommendations based on the probable use of the product.

**European waste catalogue**

12 00 00	WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS
12 01 00	wastes from shaping and physical and mechanical surface treatment of metals and plastics
12 01 12*	spent waxes and fats
HP14	Ecotoxic

- **Uncleaned packagings:**
- **Recommendation:**
  - Dispose of packaging according to regulations on the disposal of packagings.
  - Non contaminated packagings can be used for recycling.
  - Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

### SECTION 14: Transport information

- **14.1 UN number or ID number**
- **ADR/ADN, IMDG, IATA** UN3077

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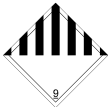

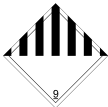

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<ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR/ADN</b></li> <li>· <b>IMDG</b></li> <li>· <b>IATA</b></li> </ul>	<p>3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc oxide) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc oxide), MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc oxide)</p>
<ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR/ADN</b></li> </ul> <div style="display: flex; align-items: center; gap: 10px;">   </div> <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	<p>9 (M7) Miscellaneous dangerous substances and articles. 9</p>
<ul style="list-style-type: none"> <li>· <b>IMDG, IATA</b></li> </ul> <div style="display: flex; align-items: center; gap: 10px;">   </div> <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	<p>9 Miscellaneous dangerous substances and articles. 9</p>
<ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b></li> <li>· <b>ADR/ADN, IMDG, IATA</b></li> </ul>	<p>III</p>
<ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards:</b></li> <li>· <b>Marine pollutant:</b></li> <li>· <b>Special marking (ADR/ADN):</b></li> <li>· <b>Special marking (IATA):</b></li> </ul>	<p>Product contains environmentally hazardous substances: zinc oxide Yes Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree)</p>
<ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b></li> <li>· <b>Kemler Number:</b></li> <li>· <b>EMS Number:</b></li> <li>· <b>Stowage Category</b></li> <li>· <b>Stowage Code</b></li> </ul>	<p>Warning: Miscellaneous dangerous substances and articles. 90 F-A,S-F A SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.</p>
<ul style="list-style-type: none"> <li>· <b>14.7 Maritime transport in bulk according to IMO instruments</b></li> </ul>	<p>Not applicable.</p>

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<b>· Transport/Additional information:</b>	
<b>· ADR/ADN</b>	
<b>· Limited quantities (LQ)</b>	5 kg
<b>· Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
<b>· Transport category</b>	3
<b>· Tunnel restriction code</b>	E
<b>· UN "Model Regulation":</b>	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC OXIDE), 9, III

## SECTION 15: Regulatory information

**· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****· Directive 2012/18/EU****· Named dangerous substances - ANNEX I** None of the ingredients is listed.**· Seveso category** E2 Hazardous to the Aquatic Environment**· Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t**· Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t**· National regulations****· Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.**· Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients is contained.

**· 15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**· Relevant phrases**

H228 Flammable solid.

H261 In contact with water releases flammable gases.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

**· Department issuing data specification sheet:**

This Material Safety Data Sheet has been drawn up in cooperation with:  
DEKRA Assurance Services GmbH, Hanomagstr. 12, D-30449 Hanover, Germany,  
phone: (+49) 511 42079 - 0, reach@dekra.com.

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**· Abbreviations and acronyms:**

- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
SVHC: Substances of Very High Concern  
vPvB: very Persistent and very Bioaccumulative  
Flam. Sol. 1: Flammable solids – Category 1  
Water-react. 2: Substances and mixtures which in contact with water emit flammable gases – Category 2  
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1  
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2  
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

**· \* Data compared to the previous version altered.**

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