MATERIAL SAFETY DATA SHEET

CZ2 Waterproof Grease

Revision: 28/2/2020

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

1.1. Product identifier

Product Name CZ2 Waterproof grease

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

Lubricating grease, No specific uses advised against are identified.

1.3 Details of the supplier of the safety data sheet

Company Address

Prime Lubricants Ltd
Oakney Wood Avenue
Selby Business Park
Selby
North Yorkshire
YO8 8FQ
Tel. 01757 706996
Fax. 01757 707994

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Aquatic Chronic 2 - H411

2.2. Label elements

Pictogram

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 in accordance with national regulations.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Distillates (petroleum), hydrotreated heavy naphthenic 50-100%

CAS number: 64742-52-5 EC number: 265-155-0 REACH registration number: 01-2119467170-45-0000

Substance with National workplace exposure limits.

IP 346 < 3%

Classification Not Classified

Zinc Oxide 5-10%

CAS number: 1314-13-2 EC number: 215-222-5 REACH registration number: 01-2119463881-32-0000

M factor (Acute) = 1 M factor (Chronic) = 1

Substance with National workplace exposure limits.

Classification

Aquatic Acute 1 - H400

Aquatic Chronic 1 - H410

Titanium Dioxide 1-2.5%

CAS number: 13463-67-7 EC number: 236-675-5 REACH registration number: 01-2119489379-17-0000

Substance with National workplace exposure limits.

Classification Not Classified

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel.
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if symptoms are severe or persist.
Ingestion	Rinse mouth thoroughly with water. Get medical advice/attention if you feel unwell. Do not induce vomiting unless under the direction of medical personnel.
Skin contact	Rinse with water.
Eye contact	Remove any contact lenses and open eyelids wide apart. Rinse with water. Get medical attention if any discomfort continues.

Protection of first aiders First aid personnel should wear appropriate protective equipment during any rescue.

4.2. Most important symptoms and effects, both acute and delayed General information The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation No specific symptoms known.

Ingestion No specific symptoms known.

Skin contact Prolonged contact may cause dryness of the skin.

Eye contact No specific symptoms known. May be slightly irritating to eyes.

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

Notes for the doctor Treat symptomatically.

Specific treatments No special treatment required.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire. Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards None known.

Hazardous combustion products

Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Do not touch or walk into spilled material.

6.2. Environmental precautions

Environmental precautions Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dangerous for the environment. Do not empty into drains. For waste disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs.

Keep container tightly sealed when not in use. Avoid discharge to the aquatic environment.

Advice on general occupational hygiene

Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store away from incompatible materials (see Section 10). Keep only in the original container.

Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage.

Storage class Miscellaneous hazardous material storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Distillates (petroleum), hydrotreated heavy naphthenic

Short-term exposure limit (15-minute): WEL 10 mg/m³ mist

Zinc Oxide

Long-term exposure limit (8-hour TWA): 4 mg/m³ respirable dust

Long-term exposure limit (8-hour TWA): 10 mg/m³ inhalable dust

Titanium Dioxide

Long-term exposure limit (8-hour TWA): WEL 4 mg/m³ respirable dust

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ inhalable dust

WEL = Workplace Exposure Limit

Zinc Oxide (CAS: 1314-13-2)

DNEL Workers - Dermal; Long term systemic effects: 83 mg/kg/day

Workers - Inhalation; Long term systemic effects: 5 mg/m³

Consumer - Oral; Long term systemic effects: 0.83 mg/kg/day

Consumer - Dermal; Long term systemic effects: 83 mg/kg/day

Consumer - Inhalation; Long term systemic effects: 2.5 mg/m³

PNEC Fresh water; Long term 20.6 µg/l

Marine water; Long term 6.1 µg/l

Sediment (Freshwater); Long term 117.8 mg/kg

Sediment (Marinewater); Long term 56.5 mg/kg

Soil; Long term 35.6 mg/kg

STP; Long term 100 µg/l

Titanium Dioxide (CAS: 13463-67-7)

DNEL Workers - Inhalation; Long term local effects: 10 mg/m³

Consumer - Oral; Long term systemic effects: 700 mg/kg/day

PNEC Fresh water; 0.127 mg/l

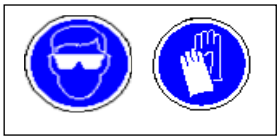
Marine water; 1 mg/l

Sediment (Freshwater); 1000 mg/kg

Sediment (Marinewater); 100 mg/kg

Soil; 100 mg/kg

STP; 100 mg/l

Protective equipment 

Appropriate engineering controls
Provide adequate ventilation. Observe any occupational exposure limits for the product or ingredients.
Eye/face protection Unless the assessment indicates a higher degree of protection is required, the Following protection should be worn: Tight-fitting safety glasses.
Hand protection No specific hand protection recommended. Avoid contact with skin.
Other skin and body protection
Wear appropriate clothing to prevent repeated or prolonged skin contact.
Hygiene measures Wash after use and before eating, smoking and using the toilet. Do not eat, drink or Smoke when using this product.
Respiratory protection Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked.
Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with European Standard EN14387. Full face mask respirators with replaceable filter cartridges should comply with European Standard EN136. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140.
Environmental exposure controls
Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties
Appearance Grease. Colour White/off-white.
Odour Almost odourless.
Odour threshold No information available.
pH Not applicable.
Melting point > 140°C
Initial boiling point and range No information available.
Flash point > 200°C Information given is applicable to the major ingredient.
Evaporation rate No information available.
Evaporation factor No information available.
Flammability (solid, gas) No information available.
Upper/lower flammability or explosive limits No information available.
Other flammability No information available.
Vapour pressure No information available.
Vapour density No information available.
Relative density No information available.
Bulk density No information available.
Solubility(ies) Insoluble in water. Partition coefficient No information available.
Auto-ignition temperature No information available.
Decomposition Temperature No information available.
Viscosity 100 cSt @ 40°C Information given is applicable to the major ingredient.
Explosive properties Not considered to be explosive.
Explosive under the influenceof a flame Not considered to be explosive.
Oxidising properties Not applicable. 9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity
Reactivity See the other subsections of this section for further details.
10.2. Chemical stability
Stability Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
10.3. Possibility of hazardous reactions
Possibility of hazardous
reactions
No potentially hazardous reactions known.
10.4. Conditions to avoid
Conditions to avoid There are no known conditions that are likely to result in a hazardous situation.
10.5. Incompatible materials
Materials to avoid No specific material or group of materials is likely to react with the product to produce a hazardous situation.
10.6. Hazardous decomposition products
Hazardous decomposition
products
Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Toxicological effects Not regarded as a health hazard under current legislation.
Acute toxicity - oral
Notes (oral LD_{50}) Based on available data the classification criteria are not met.
Acute toxicity - dermal
Notes (dermal LD_{50}) Based on available data the classification criteria are not met.
Acute toxicity - inhalation
Notes (inhalation LC_{50}) Based on available data the classification criteria are not met.
Skin corrosion/irritation
Animal data Based on available data the classification criteria are not met.
Serious eye damage/irritation
Serious eye damage/irritation Based on available data the classification criteria are not met.
Respiratory sensitisation Based on available data the classification criteria are not met.
Skin sensitisation Based on available data the classification criteria are not met.
Germ cell mutagenicity
Genotoxicity - in vitro Based on available data the classification criteria are not met.
Carcinogenicity
Carcinogenicity Based on available data the classification criteria are not met.
IARC carcinogenicity Contains a substance which may be potentially carcinogenic. IARC Group 2B Possibly carcinogenic to humans.
Reproductive toxicity - fertility Based on available data the classification criteria are not met.
Reproductive toxicity – development Based on available data the classification criteria are not met.
Specific target organ toxicity - single exposure
STOT - single exposure Not classified as a specific target organ toxicant after a single exposure.
Specific target organ toxicity - repeated exposure
STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.
Aspiration hazard Not relevant. Solid.

General information The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation No specific symptoms known.
Ingestion No specific symptoms known.
Skin contact Prolonged contact may cause dryness of the skin.
Eye contact No specific symptoms known.
Route of exposure Ingestion Inhalation Skin and/or eye contact
Target organs No specific target organs known.
Toxicological information on ingredients.
Distillates (petroleum), hydrotreated heavy naphthenic
Acute toxicity - oral
Notes (oral LD_{50}) LD_{50} >5000 mg/kg, Oral, Rat
Acute toxicity - dermal
Notes (dermal LD_{50}) LD_{50} >5000 mg/kg, Dermal, Rat
Acute toxicity - inhalation
Notes (inhalation LC_{50}) LC_{50} >5.53 mg/l, 4 hours, Dust/Mist Rat
Skin corrosion/irritation Not irritating.
Serious eye damage/irritation Not irritating.
Skin sensitisation Not sensitising.
Carcinogenicity Based on available data the classification criteria are not met.
Zinc Oxide
Acute toxicity - oral
Acute toxicity oral (LD_{50}mg/kg) 5,000.0
Species Rat
Notes (oral LD_{50}) LD_{50} >5000 mg/kg, Oral, Rat, OECD 401
ATE oral (mg/kg) 5,000.0
Acute toxicity - dermal
Notes (dermal LD_{50}) No information available.
Acute toxicity - inhalation
(LC_{50} dust/mist mg/l) 5.7
Species Rat
Notes (inhalation LC_{50}) LC_{50} >5.7 mg/l, 4 hours, Dust/Mist Rat OECD 403
ATE inhalation
(dusts/mists mg/l) 5.7
Skin corrosion/irritation Not irritating. Rabbit OECD 404
Serious eye damage/irritation Not irritating. Rabbit OECD 405
Respiratory sensitisation Not sensitising. Based on available data the classification criteria are not met.
Skin sensitisation Not sensitising. Based on available data the classification criteria are not met.
Guinea pig OECD 406
Titanium Dioxide
Acute toxicity - oral
Notes (oral LD_{50}) LD_{50} >5000 mg/kg, Oral, Rat, OECD 425
Acute toxicity - dermal
Notes (dermal LD_{50}) LD_{50} >2000 mg/kg, Dermal,
Acute toxicity – inhalation Notes (inhalation LC_{50}) LD_{50} 3.43-5.09 mg/l, Inhalation, Rat, OECD 403
Skin corrosion/irritation Not irritating. Rabbit OECD 404
Serious eye damage/irritation Not irritating. Rabbit OECD 405
Respiratory sensitisation Based on available data the classification criteria are not met.
Skin sensitisation Not sensitising. Local Lymph Node Assay (LLNA) OECD 429
Germ cell mutagenicity Genotoxicity - in vitro Ames test Negative. OECD 471
Carcinogenicity IARC carcinogenicity IARC Group 2B Possibly carcinogenic to humans.
Reproductive toxicity – fertility No information available.
Specific target organ toxicity - single exposure

STOT - single exposure No information available.
Specific target organ toxicity - repeated exposure
STOT - repeated exposure No information available.

SECTION 12: Ecological information

12.1. Toxicity
Toxicity Aquatic Chronic 2 - H411 Toxic to aquatic life with long lasting effects.
Ecological information on ingredients.
Distillates (petroleum), hydrotreated heavy naphthenic
Acute aquatic toxicity
Acute toxicity - fish LL_{50}, 96 hours: >100 mg/l,
Acute toxicity - aquatic invertebrates
EC_{50}, 96 hours: >10000 mg/l,
Acute toxicity - aquatic plants
NOEC, 72 hours: >100 mg/l,
Chronic aquatic toxicity
Chronic toxicity - aquatic invertebrates
NOEC, 21 days: 10 mg/l,
Zinc Oxide
Acute aquatic toxicity
$LE(C)_{50}$ 0.1 < L(E)C50 ≤ 1
M factor (Acute) 1
Acute toxicity - aquatic invertebrates
EC_{50}, 48 hours: 0.413 mg/l, Daphnia magna
Acute toxicity - aquatic plants
EC_{50}, 72 hours: 0.137 mg/l, Selenastrum capricornutum
Chronic aquatic toxicity
M factor (Chronic) 1
Chronic toxicity - aquatic invertebrates
NOEC, 7 days: 82 µg/l, Daphnia magna
Titanium Dioxide
Acute aquatic toxicity
Acute toxicity - fish LC_{50}, 96 hours: >1000 mg/l, Pimephales promelas (Fat-head Minnow)
LC_{50}, 96 hours: >100 mg/l, Oncorhynchus mykiss (Rainbow trout)
LC_{50}, 96 hours: >10000 mg/l, Cyprinodon variegatus (Sheepshead minnow)
Acute toxicity - aquatic invertebrates
LC_{50}, 48 hours: >100 mg/l, Daphnia magna
LC_{50}, 48 hours: >10000 mg/l, Marinewater invertebrates
Acute toxicity - aquatic plants
EC_{80}, 72 hours: 16 mg/l, Pseudokirchneriella subcapitata
12.2. Persistence and degradability

Persistence and degradability The degradability of the product is not known.
Ecological information on ingredients.
Distillates (petroleum), hydrotreated heavy naphthenic
Biodegradation Inherently biodegradable.
Zinc Oxide
Persistence and degradability
No data available.
Titanium Dioxide
Persistence and degradability
The product contains inorganic substances which are not biodegradable.
12.3. Bioaccumulative potential
Bioaccumulative potential No data available on bioaccumulation.
Partition coefficient No information available.
Ecological information on ingredients.
Distillates (petroleum), hydrotreated heavy naphthenic
Bioaccumulative potential Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.
Partition coefficient log Pow: 2 to 6
Zinc Oxide
Bioaccumulative potential No data available.
Titanium Dioxide
Bioaccumulative potential The product is not bioaccumulating.
12.4. Mobility in soil
Mobility No data available.
Ecological information on ingredients.
Distillates (petroleum), hydrotreated heavy naphthenic
Mobility Mobile.
Zinc Oxide
Mobility No data available.
12.5. Results of PBT and vPvB assessment
Ecological information on ingredients.
Zinc Oxide
Results of PBT and vPvB
assessment
This substance is not classified as PBT or vPvB according to current EU criteria.
12.6. Other adverse effects
Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
General information The generation of waste should be minimised or avoided wherever possible. Reuse or recycle
products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.
Disposal methods Do not empty into drains.

SECTION 14: Transport information

General For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section.

14.1. UN number

UN No. (ADR/RID) 3077

UN No. (IMDG) 3077

UN No. (ICAO) 3077

UN No. (ADN) 3077

14.2. UN proper shipping name

Proper shipping name

(ADR/RID)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc oxide mixture)

Proper shipping name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc oxide mixture)

Proper shipping name (ICAO) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc oxide mixture)

Proper shipping name (ADN) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc oxide mixture)

14.3. Transport hazard class(es)

ADR/RID class 9

ADR/RID classification code M7

ADR/RID label 9

IMDG class 9

ICAO class/division 9

ADN class 9

Transport labels 

14.4. Packing group

ADR/RID packing group III

IMDG packing group III

ADN packing group III

ICAO packing group III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

14.6. Special precautions for user

Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to

do in the event of an accident or spillage.

EmS F-A, S-F

ADR transport category 3

Emergency Action Code 2Z

Hazard Identification Number

(ADR/RID) 90

Tunnel restriction code (-)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
National regulations Health and Safety at Work etc. Act 1974 (as amended).
The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].
EH40/2005 Workplace exposure limits.
EU legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
Commission Regulation (EU) No 2015/830 of 28 May 2015.
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
15.2. Chemical safety assessment
No chemical safety assessment has been carried out.
Inventories
EU - EINECS/ELINCS
All the ingredients are listed or exempt.
Canada - DSL/NDSL
All the ingredients are listed or exempt.
US - TSCA
All the ingredients are listed or exempt.
Australia - AICS
All the ingredients are listed or exempt.
Japan - MITI
All the ingredients are listed or exempt.
Korea - KECI
All the ingredients are listed or exempt.
China - IECSC
All the ingredients are listed or exempt.
Philippines – PICCS
All the ingredients are listed or exempt.
New Zealand - NZIOC
All the ingredients are listed or exempt.
Taiwan - NECI
All the ingredients are listed or exempt.

SECTION 16: Other information

Abbreviations and acronyms
used in the safety data sheet
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
IATA: International Air Transport Association.
ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
IMDG: International Maritime Dangerous Goods.
CAS: Chemical Abstracts Service.
ATE: Acute Toxicity Estimate.
LC_{50}: Lethal Concentration to 50 % of a test population.
LD_{50}: Lethal Dose to 50% of a test population (Median Lethal Dose).
EC_{50}: 50% of maximal Effective Concentration.
PBT: Persistent, Bioaccumulative and Toxic substance.
vPvB: Very Persistent and Very Bioaccumulative.
Classification abbreviations
and acronyms
Aquatic Chronic = Hazardous to the aquatic environment (chronic)
Classification procedures
according to Regulation (EC)
1272/2008
Aquatic Chronic 2 - H411: : Calculation method.
Training advice Only trained personnel should use this material.
Revision date 29/08/2019
Revision 3
Supersedes date 04/03/2019
SDS number 4738
Hazard statements in full 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.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.