

High Temperature Grease

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

with its amendment Regulation (EC) No. 2015/830

Revision date: 12/1/2016



SDSHTG

ENEU

Rev. A

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

1.1. Product identifier

Product form : Mixture
Trade name : High Temperature Grease
Product code : 115982, 070618

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Lubricants, greases, release products

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Graco BVBA
Industrieterrein Ounde Bunders
Maasmechelen - Belgium
T +32 89 770 700 - F +32 89 770 777
reach@graco.com

1.4. Emergency telephone number

Emergency number : 1- 703-741-5970 (Chemtrec)
24/24

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation Category 2 H315
Serious eye damage/eye irritation, Category 1 H318
Sensitisation — Skin, Category 1 H317
Hazardous to the aquatic environment — Chronic Hazard, Category 3 H412

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



Signal word (CLP) :

Danger

Hazard statements (CLP) :

H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (CLP) :

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray
P264 - Wash hands, forearms and face thoroughly after handling
P272 - Contaminated work clothing should not be allowed out of the workplace
P273 - Avoid release to the environment
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P302+P352 - IF ON SKIN: Wash with plenty of water

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2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|--|---------|--|
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene | (CAS No) 68411-46-1 (EC no) 270-128-1 (REACH-no) Not available | 1 - 5 | Aquatic Chronic 3, H412 |
| Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts | (CAS No) 68649-42-3 (EC no) 272-028-3 (REACH-no) Not available | 1 - 2,5 | Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411 |
| 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl- | (CAS No) 94270-86-7 (EC no) 619-007-0 (REACH-no) not available | 0,1 - 1 | Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411 |
| Lithium hydroxide monohydrate | (CAS No) 1310-66-3 (EC no) 603-454-3 (REACH-no) Not available | 0,1 - 1 | Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 |

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|---|
| First-aid measures after inhalation | : Remove victim to fresh air and keep at rest in a position comfortable for breathing. At room temperature, exposure by inhalation is not expected to cause any adverse effects on health. |
| First-aid measures after skin contact | : After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. If material is injected under the skin, seek medical attention immediately. |
| First-aid measures after eye contact | : Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation persists. |
| First-aid measures after ingestion | : Do not induce vomiting unless directed to do so by medical personnel. Immediately call a POISON CENTER or doctor/ physician. Aspiration of this material may cause chemical pneumonia. Observe risk of aspiration if vomiting occurs. |

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

| | |
|--------------------------------------|--|
| Symptoms/injuries | : When using high-pressure equipment, injection of product can occur . Injection under the skin can cause inflammation and swelling. If high-pressure injuries occur, immediately seek professional medical attention . Take immediately victim to hospital. |
| Symptoms/injuries after skin contact | : Frequent or prolonged contact with skin may cause dermal irritation. |
| Symptoms/injuries after eye contact | : May cause eye irritation. |
| Symptoms/injuries after ingestion | : May cause lung damage if swallowed. |

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|--------------------------------|--|
| Suitable extinguishing media | : Water spray. carbon dioxide (CO ₂), dry chemical powder, foam. |
| Unsuitable extinguishing media | : Do not use a solid water stream as it may scatter and spread fire. |

5.2. Special hazards arising from the substance or mixture

| | |
|--|---|
| Fire hazard | : When heated above the flash point, releases flammable vapours. Vapours may travel long distances along ground before igniting/flashing back to vapour source. |
| Explosion hazard | : Explosive dust-air mixtures may form. |
| Hazardous decomposition products in case of fire | : Toxic gases and fumes may be released in a fire. Carbon dioxide. Carbon monoxide. Phosphorus oxides. Nitrogen oxides. Sulfur oxides. |

5.3. Advice for firefighters

| | |
|-----------------------------|--|
| Precautionary measures fire | : Use water spray or fog for cooling exposed containers. |
| Firefighting instructions | : Fight fire with normal precautions from a reasonable distance. |

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Protective equipment for firefighters : In confined space use self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Wear suitable protective clothing. Use suitable eye protection and gloves.
Emergency procedures : Eliminate all ignition sources if safe to do so. Evacuate personnel to a safe area.

6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing. In case of fire: Wear self-contained breathing apparatus.
Emergency procedures : Evacuate area. Ventilate affected area. Eliminate all ignition sources if safe to do so.

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Take up large spills with pump or vacuum. Use only antistatically equipped (spark-free) tools. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it. Do not absorb with saw-dust or any other combustible absorbent material. Remove from the water surface (e.g. skimming, sucking).
Other information : Relevant water authorities should be notified of any large spillage to water course or drain.

6.4. Reference to other sections

For disposal of residues refer to section 13 : Disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not pressurize, cut, weld, braze, solder, drill, grind, or expose containers to flames, sparks, heat, or other potential ignition sources. Keep container closed when not in use. Avoid contact with the skin and the eyes. Ensure adequate ventilation. Do not store near oxidizing agents.
Handling temperature : ≥ 60 °C
Hygiene measures : Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Take care for general good hygiene and housekeeping.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store tightly closed in a dry, cool and well-ventilated place.
Incompatible products : Oxidizing agent.
Heat and ignition sources : Keep away from open flames, hot surfaces and sources of ignition.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3) | | |
|--|---|---|
| Germany | TRGS 900 Occupational exposure limit value (mg/m ³) | 2 mg/m ³ (inhalable fraction) |
| Germany | TRGS 900 Limitation of exposure peaks (mg/m ³) | 0,1 mg/m ³ (respirable fraction) |
| Slovakia | NPHV (priemerná) (mg/m ³) | 2 mg/m ³ (inhalable fraction) |
| Slovakia | NPHV (Hraničná) (mg/m ³) | 0,1 mg/m ³ (respirable fraction) |

8.2. Exposure controls

Appropriate engineering controls : A washing facility/water for eye and skin cleaning purposes should be present.
Personal protective equipment : Protective goggles. Gloves. Protective clothing.

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| | |
|-----------------------------------|--|
| Materials for protective clothing | : Plastic apron or overall. EN 14605 |
| Hand protection | : Wear suitable gloves tested to EN374. Neoprene. NBR (Nitrile rubber). Thickness of glove material: 0.11 mm. Breakthrough times and swelling properties of the material must be taken into consideration |
| Eye protection | : Safety glasses with side shields. DIN EN 166 |
| Respiratory protection | : No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation. If excessive exposure exists, use only approved air-purifying or supplied air respirator operated in a positive pressure mode |



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|--|
| Physical state | : Liquid |
| Appearance | : Semi-solid. |
| Colour | : red. |
| Odour | : Petroleum. |
| Odour threshold | : No data available |
| pH | : Not applicable |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : Not applicable. |
| Boiling point | : No data available |
| Flash point | : > 240 °C Cleveland Open Cup |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapour pressure | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : 0,94 - 0,95 g/cm ³ |
| Density | : 0,9 @15.6°C |
| Solubility | : Soluble in organic solvents. Water: Insoluble |
| Log Pow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : not explosive. |
| Oxidising properties | : not oxidizing. |
| Explosive limits | : 0,9 vol % 7 vol % |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

10.5. Incompatible materials

Strong acids. Strong oxidizing agents.

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10.6. Hazardous decomposition products

None known under normal conditions of use.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

| High Temperature Grease | |
|----------------------------|--------------|
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rat | > 5000 mg/kg |
| LC50 inhalation rat (mg/l) | > 20 mg/l/4h |

Skin corrosion/irritation : Causes skin irritation.
pH: Not applicable

Serious eye damage/irritation : Causes serious eye damage.
pH: Not applicable

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The ecological assessment of this material is based on an evaluation of its components.

| High Temperature Grease | |
|--------------------------------|----------|
| LC50 fish 1 | 100 mg/l |
| LC50 other aquatic organisms 1 | 100 mg/l |
| EC50 Daphnia 1 | 100 mg/l |

12.2. Persistence and degradability

| High Temperature Grease | |
|-------------------------------|----------------------------|
| Persistence and degradability | Not readily biodegradable. |

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

| Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3) | |
|--|--------------------|
| Ecology - soil | No available data. |

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Waste treatment methods : Dispose of at authorized waste collection point. Recycle or dispose of in compliance with current legislation.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : Not applicable

UN-No. (IMDG) : Not applicable

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| | |
|---------------|------------------|
| UN-No. (IATA) | : Not applicable |
| UN-No. (ADN) | : Not applicable |
| UN-No. (RID) | : Not applicable |

14.2. UN proper shipping name

| | |
|-----------------------------|------------------|
| Proper Shipping Name (ADR) | : Not applicable |
| Proper Shipping Name (IMDG) | : Not applicable |
| Proper Shipping Name (IATA) | : Not applicable |
| Proper Shipping Name (ADN) | : Not applicable |
| Proper Shipping Name (RID) | : Not applicable |

14.3. Transport hazard class(es)

ADR

| | |
|----------------------------------|------------------|
| Transport hazard class(es) (ADR) | : Not applicable |
|----------------------------------|------------------|

IMDG

| | |
|-----------------------------------|------------------|
| Transport hazard class(es) (IMDG) | : Not applicable |
|-----------------------------------|------------------|

IATA

| | |
|-----------------------------------|------------------|
| Transport hazard class(es) (IATA) | : Not applicable |
|-----------------------------------|------------------|

ADN

| | |
|----------------------------------|------------------|
| Transport hazard class(es) (ADN) | : Not applicable |
|----------------------------------|------------------|

RID

| | |
|----------------------------------|------------------|
| Transport hazard class(es) (RID) | : Not applicable |
|----------------------------------|------------------|

14.4. Packing group

| | |
|----------------------|------------------|
| Packing group (ADR) | : Not applicable |
| Packing group (IMDG) | : Not applicable |
| Packing group (IATA) | : Not applicable |
| Packing group (ADN) | : Not applicable |
| Packing group (RID) | : Not applicable |

14.5. Environmental hazards

| | |
|-------------------------------|--|
| Dangerous for the environment | : No |
| Marine pollutant | : No |
| Other information | : No supplementary information available |

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

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Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the Canadian DSL (Domestic Substances List)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on CICR (Turkish Inventory and Control of Chemicals)

Germany

VwVwS Annex reference : Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex 4)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts, Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene are listed

SZW-lijst van mutagene stoffen : Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts, Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

A chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: Other information

Sources of Key data : CLP Inventory.

Other information : This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. It is the user's responsibility to take the mentioned precautionary measures and to ensure that this information is complete and sufficient for the use of this product. This SDS was prepared by Intertek. However, the information is provided without any warranty, expressed or implied regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable. Users should make their own investigations to determine the suitability of the information or products for their particular purpose. The conditions or methods of handling, storage, use, and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, Intertek does not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with handling, storage, use or disposal of the product.

Full text of H- and EUH-statements:

| | |
|---------------------|---|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment — Chronic Hazard, Category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment — Chronic Hazard, Category 3 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Skin Corr. 1B | Skin corrosion/irritation Category 1B |
| Skin Irrit. 2 | Skin corrosion/irritation Category 2 |
| Skin Sens. 1 | Sensitisation — Skin, Category 1 |
| H302 | Harmful if swallowed |
| H314 | Causes severe skin burns and eye damage |

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| | |
|------|---|
| H315 | Causes skin irritation |
| H317 | May cause an allergic skin reaction |
| H318 | Causes serious eye damage |
| H411 | Toxic to aquatic life with long lasting effects |
| H412 | Harmful to aquatic life with long lasting effects |

SDS EU (REACH Annex II)

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