

Dielectric Grease

Safety Data Sheet

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

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

Date of issue: 14/07/2015

Version: 1.0



SDSDIG

ENEU

Rev. A

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

1.1. Product identifier

Product form : Mixture
Product name : Dielectric Grease
Product code : 107411, 116553

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]

Aspiration hazard, Category 1 H304

Hazardous to the aquatic environment — Chronic Hazard, Category 4 H413

Full text of H statements : see section 16

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS08

Signal word (CLP) : Danger

Hazard statements (CLP) : H304 - May be fatal if swallowed and enters airways
H413 - May cause long lasting harmful effects to aquatic life

Precautionary statements (CLP) : P273 - Avoid release to the environment
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
P331 - Do NOT induce vomiting
P405 - Store locked up
P501 - Dispose of contents/container to ...

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Dielectric Grease

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 2015/830

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Naphthenic acids, zinc salts	(CAS No) 12001-85-3 (EC no) 234-409-2 (REACH-no) Not available	1 - 5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319
Hexanoic acid, 2-ethyl-, zinc salt (2:1)	(CAS No) 136-53-8 (EC no) 205-251-1 (REACH-no) Not available	<= 1	Eye Irrit. 2, H319 Repr. 2, H361 Aquatic Chronic 3, H412

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 (CO₂), dry chemical powder, foam.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Contains flammable ingredients. Flammable vapours can accumulate in head space of closed systems.
- Explosion hazard : Product is not explosive.
- Reactivity in case of fire : (strong) oxidizers.
- Hazardous decomposition products in case of fire : Toxic gases and fumes may be released in a fire. Carbon dioxide. Carbon monoxide.

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.
- 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 liquid enters sewers or public waters.

Dielectric Grease

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 2015/830

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.
- 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.
- 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.
- 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

Naphthenic acids, zinc salts (12001-85-3)		
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	0,1 mg/m ³ E: respirable fraction
Slovakia	NPHV (priemerná) (mg/m ³)	0,1 mg/m ³ E: respirable fraction
Switzerland	VME (mg/m ³)	0,1 mg/m ³
Switzerland	VLE (mg/m ³)	4 mg/m ³
Hexanoic acid, 2-ethyl-, zinc salt (2:1) (136-53-8)		
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	0,1 mg/m ³ E: respirable fraction
Slovakia	NPHV (priemerná) (mg/m ³)	0,1 mg/m ³ E: respirable fraction
Switzerland	VME (mg/m ³)	0,1 respirable dust
Switzerland	VLE (mg/m ³)	0,4 mg/m ³ respirable dust

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.
- Materials for protective clothing : Plastic apron or overall
- Hand protection : Wear suitable gloves tested to EN374. Neoprene. NBR (Nitrile rubber).
- Eye protection : Safety glasses with side shields
- 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 : Green.
- Odour : Petroleum.
- Odour threshold : No data available

Dielectric Grease

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 2015/830

pH	: Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: 315 °C
Flash point	: 260 °C Cleveland Open Cup
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: < 0,01 mm Hg
Relative vapour density at 20 °C	: > 5 (Air =1)
Relative density	: 0,94 - 0,95 g/cm ³
Density	: 0,9 @15.6°C
Solubility	: Soluble in: hydrocarbons. Water: Insoluble
Log Pow	: No data available
Viscosity, kinematic	: 11,8 mm ² /s @100°C
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.

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

Naphthenic acids, zinc salts (12001-85-3)

LD50 oral rat	4920 mg/kg
---------------	------------

Hexanoic acid, 2-ethyl-, zinc salt (2:1) (136-53-8)

LD50 oral rat	3550 - 3700 mg/kg
---------------	-------------------

LD50 dermal rat	> 5000 mg/kg
-----------------	--------------

Skin corrosion/irritation	: Not classified pH: Not applicable
Serious eye damage/irritation	: Not classified pH: Not applicable
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified

Dielectric Grease

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 2015/830

Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: May be fatal if swallowed and enters airways.

Dielectric Grease	
Viscosity, kinematic	11,8 mm ² /s @100°C

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : This material has not been tested for environmental effects. The ecological assessment of this material is based on an evaluation of its components.

Hexanoic acid, 2-ethyl-, zinc salt (2:1) (136-53-8)	
EC50 Daphnia 1	14 mg/l (Exposure time: 48 h - Species: Daphnia magna)

12.2. Persistence and degradability

Dielectric Grease	
Persistence and degradability	Not readily biodegradable.

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

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

Not regulated for transport

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

Dielectric Grease

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 2015/830

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

No data available

- Transport by sea

No data available

- Air transport

No data available

- Inland waterway transport

No data available

- Rail transport

No data available

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
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 Turkish inventory of chemical

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 : None of the components are listed
SZW-lijst van mutagene stoffen : None of the components 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

Dielectric Grease

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 2015/830

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

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:

Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
H226	Flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H319	Causes serious eye irritation
H361	Suspected of damaging fertility or the unborn child
H412	Harmful to aquatic life with long lasting effects
H413	May cause long lasting harmful effects to aquatic life

SDS EU (REACH Annex II)

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