

## 1. Identification of the substance/preparation and company/undertaking

<b>Product name</b>	<b>Optitemp OG 0</b>
<b>SDS no.</b>	454129
<b>Use of the substance/preparation</b>	Lubricant For specific application advice see appropriate Technical Data Sheet or consult our company representative.
<b>Supplier</b>	Nordic Lubricants A/S Hasselager Centervej 15 8260 Viby J Denmark  Telephone number: +45 70 80 70 56 Fax number: +45 70 80 70 53  Carechem: +44 (0) 208 762 8322 (24 hours)
<b>EMERGENCY TELEPHONE NUMBER</b>	
<b>E-mail address</b>	MSDSadvice@bp.com

## 2. Hazards identification

This preparation is classified as dangerous according to Directive 1999/45/EC as amended and adapted. -

<b>Human health hazards</b>	May cause sensitisation by skin contact. -
<b>Environmental hazards</b>	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. -
<b>Additional hazards</b>	Note: High Pressure Applications - Injections through the skin resulting from contact with the product at high pressure constitute a major - medical emergency. - See 'Notes to physician' under First-Aid Measures, Section 4 of this Safety Data Sheet. -

See sections 11 and 12 for more detailed information on health effects and symptoms and environmental hazards.

## 3. Composition/information on ingredients

Highly refined mineral oil and additives.

<b>Chemical name</b>	<b>CAS no.</b>	<b>% -</b>	<b>EINECS / ELINCS.</b>	<b>Classification</b>
Zinc alkyl dithiophosphate	68649-42-3	1 - 5	272-028-3	Xi; R41, R38 N; R51/53 [1]
Magnesium sulphonate	71786-47-5 / 93028-29-6	1 - 5	296-721-5	R53 [1]
Reaction product of ammonium molybdate and C12-C24-diethoxylated alkylamine (1:5-1:3)	Proprietary	1 - 5	412-780-3	Xi; R38 R43 N; R51/53 [1]

See section 16 for the full text of the R-phrases declared above

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] PBT-substance

[4] vPvB-substance -

Occupational exposure limits, if available, are listed in section 8. -

## 4. First-aid measures

<b>Eye contact -</b>	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.
<b>Skin contact</b>	Immediately wash exposed skin with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
<b>Inhalation</b>	If inhaled, remove to fresh air. Get medical attention if symptoms appear.
<b>Ingestion -</b>	Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If potentially dangerous quantities of this material have been swallowed, call a physician immediately.

**Product name** Optitemp OG 0

**Product code** 454129-DE03

**Page:** 1/5

**Date of issue** 10 November 2009

**Format Denmark**

**Language ENGLISH**

(Denmark)

( ENGLISH )

## Notes to physician -

Treatment should in general be symptomatic and directed to relieving any effects.

Note: High Pressure Applications

Injections through the skin resulting from contact with the product at high pressure constitute a major medical emergency. Injuries may not appear serious at first but within a few hours tissue becomes swollen, discoloured and extremely painful with extensive subcutaneous necrosis. Surgical exploration should be undertaken without delay. Thorough and extensive debridement of the wound and underlying tissue is necessary to minimise tissue loss and prevent or limit permanent damage. Note that high pressure may force the product considerable distances along tissue planes.

## 5 . Fire-fighting measures

### Extinguishing media

#### Suitable -

In case of fire, use water fog, foam, dry chemical or carbon dioxide extinguisher or spray. This material is harmful to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

#### Not suitable -

Do not use water jet.

### Hazardous decomposition - products -

Decomposition products may include the following materials:

carbon dioxide  
carbon monoxide  
nitrogen oxides  
sulfur oxides  
phosphorus oxides  
metal oxide/oxides

### Unusual fire/explosion hazards -

This material is not explosive as defined by established regulatory criteria.

### Special fire-fighting procedures

None identified.

### Protection of fire-fighters -

Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

## 6 . Accidental release measures

### Personal precautions

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

### Environmental precautions

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material.

### Large spill

Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

### Small spill

Stop leak if without risk. Move containers from spill area. Use a tool to scoop up solid or absorbed material and place into appropriate labelled waste container. Dispose of via a licensed waste disposal contractor.

## 7 . Handling and storage

### Handling -

Do not get on skin or clothing. Avoid contact of spilt material and runoff with soil and surface waterways. Wash thoroughly after handling.

### Storage -

Keep container tightly closed. Keep container in a cool, well-ventilated area.

## 8 . Exposure controls/personal protection

### Ingredient name -

Base oil - unspecified

Graphite

### ACGIH TLVs

Base oil - unspecified

Graphite

### Occupational exposure limits

#### C.0.1 Grænseværdier for stoffer og materialer (Denmark).

GV: 1 mg/m<sup>3</sup> 8 hour(s). Form: Oil mist, mineral oil particles

#### Arbejdstilsynet (Denmark).

TWA: 2.5 mg/m<sup>3</sup> 8 hour(s). Issued/Revised: 12/1996 Form: respirable dust

#### ACGIH (United States).

STEL: 10 mg/m<sup>3</sup> 15 minute(s). Form: Mineral oil, mist

TWA: 5 mg/m<sup>3</sup> 8 hour(s). Form: Mineral oil, mist

#### ACGIH TLV (United States).

TWA: 2 mg/m<sup>3</sup> 8 hour(s). Issued/Revised: 9/1994 Form: Dust

For information and guidance, the ACGIH values are included. For further information on these please consult your supplier. -

Whilst specific OELs for certain components may be shown in this section, other components may be present in any mist, vapour or dust - produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for guidance only. -

### Exposure controls

#### Occupational exposure controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits.

Product name Optitemp OG 0

Product code 454129-DE03

Page: 2/5

Date of issue 10 November 2009

Format Denmark

Language ENGLISH

(Denmark)

( ENGLISH )

**Hygiene measures -**

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

**Personal protective equipment****Respiratory protection -**

None required. However, use of adequate ventilation is good industrial practice.

**Hand protection -**

Wear suitable gloves. Chemical-resistant gloves. Recommended: Nitrile gloves. The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

**Eye protection -**

Safety glasses with side shields.

**Skin and body -**

Do not get on skin or clothing. Wear suitable protective clothing.

---

## 9 . Physical and chemical properties

**General information****Appearance**

Physical state Grease

Colour Black.

Odour Mild.

**Important health, safety and environmental information**

Flash point Closed cup: >100°C (>212°F)

Penetration Number (0.1 mm) - 380 at 25°C

Drop Point >120 °C -

Density <1000 kg/m<sup>3</sup> (<1 g/cm<sup>3</sup>) at 20°C -

Solubility insoluble in water. -

---

## 10 . Stability and reactivity

Stability The product is stable.

Possibility of hazardous reactions Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid No specific data.

Materials to avoid Reactive or incompatible with the following materials: oxidizing materials.

Hazardous decomposition products Combustion products may include the following:  
carbon oxides  
nitrogen oxides  
sulfur oxides  
phosphorus oxides  
metal oxide/oxides

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

---

## 11 . Toxicological information

**Chronic toxicity**

Chronic effects Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Effects and symptoms**

Eyes May cause eye irritation.

Skin May cause severe allergic skin reaction

Inhalation Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation.

Ingestion Ingestion may cause gastrointestinal irritation and diarrhoea.

---

## 12 . Ecological information

Persistence/degradability Inherently biodegradable

Mobility Non-volatile. Grease. insoluble in water.

Environmental hazards Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Product name Optitemp OG 0

Product code 454129-DE03

Page: 3/5

Date of issue 10 November 2009

Format Denmark

Language ENGLISH

(Denmark)

( ENGLISH )

## 13 . Disposal considerations

### Disposal considerations / Waste information

The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spill material and runoff and contact with soil, waterways, drains and sewers.

### Unused product

#### European waste catalogue (EWC)

12 01 12\* spent waxes and fats

However, deviation from the intended use and/or the presence of any potential contaminants may require an alternative waste disposal code to be assigned by the end user.

### Packaging

#### European waste catalogue (EWC)

15 01 10\* packaging containing residues of or contaminated by dangerous substances

### Denmark - Waste card number

(06.08)

### Denmark - Waste group

B

### Denmark - Recommended Disposal

Disposal of large amounts must be through an authorised waste contractor to a licensed site.

---

## 14 . Transport information

Not classified as hazardous for transport (ADR/RID, ADNR, IMDG, ICAO/IATA)

---

## 15 . Regulatory information

Classification and labelling have been performed according to EU directives 1999/45/EC and 67/548/EEC as amended and adapted.

### Label requirements

#### Hazard symbol or symbols



Irritant

#### Indication of danger

#### Risk phrases

R43- May cause sensitisation by skin contact.  
R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### Safety phrases

S28- After contact with skin, wash immediately with plenty of soap and water.  
S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.  
S61- Avoid release to the environment. Refer to special instructions/safety data sheet.

#### Contains

Reaction product of ammonium molybdate and C12-C24-diethoxylated alkylamine (1:5-1:3)

### Other regulations

#### Europe inventory

At least one component is not listed in EINECS but all such components are listed in ELINCS. Please contact your supplier for information on the inventory status of this material.

#### United States inventory (TSCA 8b) -

All components are listed or exempted. -

#### Australia inventory (AICS)

All components are listed or exempted. -

#### Canada inventory

At least one component is not listed. -

#### China inventory (IECSC)

At least one component is not listed. -

#### Japan inventory (ENCS)

At least one component is not listed. -

#### Korea inventory (KECI)

At least one component is not listed. -

#### Philippines inventory (PICCS)

At least one component is not listed. -

#### Restrictions on use

Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order on young people's dangerous work.

---

## 16 . Other information

### Full text of R-phrases referred to in sections 2 and 3 -

R41- Risk of serious damage to eyes.  
R38- Irritating to skin.  
R43- May cause sensitisation by skin contact.  
R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R53- May cause long-term adverse effects in the aquatic environment.

### History

<b>Product name</b> Optitemp OG 0	<b>Product code</b> 454129-DE03	<b>Page:</b> 4/5
<b>Date of issue</b> 10 November 2009	<b>Format Denmark</b> (Denmark)	<b>Language ENGLISH</b> ( ENGLISH )

**Date of issue/ Date of revision** 10/11/2009.  
**Date of previous issue** 03/07/2009.  
**Prepared by** Product Stewardship Group  
**Notice to reader**

✔ Indicates information that has changed from previously issued version.

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from us.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The BP Group shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken.

**Product name** Optitemp OG 0

**Product code** 454129-DE03

**Page:** 5/5

**Date of issue** 10 November 2009

**Format** Denmark

**Language** ENGLISH

(Denmark)

( ENGLISH )