

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

Product name	Optitemp MT
SDS no.	455573
Use of the substance/preparation	Lubricant For specific application advice see appropriate Technical Data Sheet or consult our company representative.
Supplier	Castrol (Switzerland) AG, Baarerstrasse 139, CH-6302 Zug Telefon / Numéro de téléphone / Numero di telefono: +41 58 456 93 33 Telefax / Numéro de télécopieur / Numero di FAX: +41 58 456 93 39 Carechem: +44 (0) 208 762 8322 (24 hours)
EMERGENCY TELEPHONE NUMBER	
E-mail address	MSDSadvice@bp.com

2. Hazards identification

This preparation is not classified as dangerous according to Directive 1999/45/EC as amended and adapted.

Additional hazards	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.
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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

Chemical name	CAS no.	%	EINECS / ELINCS.	Classification
Propylene carbonate	108-32-7	1 - 5	203-572-1	Xi; R36 [1]
phenol, 2,6-bis(1,1-dimethylethyl)-4-nonyl-	4306-88-1	1 - 5	224-320-7	Xi; R36/37/38 [1] R52/53

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

Eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.
Skin contact	Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritation develops.
Inhalation	If inhaled, remove to fresh air. Get medical attention if symptoms appear.
Ingestion	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.
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.

Not suitable

Do not use water jet.

Hazardous decomposition products

Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
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. 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).

Large spill

Stop leak if without risk. Move containers from spill area. 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. 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

Wash thoroughly after handling.

Storage

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

Water endangering class (CH)

1

Fire Class

F4s

8 . Exposure controls/personal protection

Ingredient name

Base oil - unspecified

Occupational exposure limits

SUVA/CNA (Switzerland).

MAK: 5 mg/m³ 8 hour(s). Form: Oil mist, mineral

Kurzzeitgrenzwerte: 10 mg/m³ 15 minute(s). Form: Oil mist, mineral

ACGIH TLVs

Base oil - unspecified

ACGIH (United States).

STEL: 10 mg/m³ 15 minute(s). Form: Mineral oil, mist

TWA: 5 mg/m³ 8 hour(s). Form: Mineral oil, mist

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.

Hygiene measures

Wash hands after handling compounds and before eating, smoking and using the lavatory and at the end of the day.

Personal protective equipment

Respiratory protection

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

Hand protection

Wear protective gloves if prolonged or repeated contact is likely.

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

Wear appropriate clothing to avoid prolonged skin contact.

9 . Physical and chemical properties

General information

Appearance

Physical state	Grease
Colour	Yellow.
Odour	Mild.

Important health, safety and environmental information

Flash point	Closed cup: >150°C (>302°F)
Vapour pressure	<0.01 kPa (<0.075 mm Hg) at 20°C
Density	<1000 kg/m ³ (<1 g/cm ³) 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 metal oxide/oxides Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 . Toxicological information

Chronic toxicity

Chronic effects	Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
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Effects and symptoms

Eyes	May cause mild eye irritation.
Skin	Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis. 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.
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	Not classified as dangerous.

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 spilt 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

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

Risk phrases	This product is not classified according to EU legislation.
Additional warning phrases	Safety data sheet available for professional user on request.
Other regulations	
Europe inventory	All components are listed or exempted.
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)	All components are listed or exempted.
Japan inventory (ENCS)	At least one component is not listed.
Korea inventory (KECI)	All components are listed or exempted.
Philippines inventory (PICCS)	All components are listed or exempted.
VOC content	0%

16 . Other information

Full text of R-phrases referred to in sections 2 and 3
R36- Irritating to eyes.
R36/37/38- Irritating to eyes, respiratory system and skin.
R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

History

Date of issue/ Date of revision 30/07/2009.

Date of previous issue 30/07/2009.

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.