

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

Product name	Optimol Paste White T
SDS no.	53853
Use of the substance/preparation	Paste For specific application advice see appropriate Technical Data Sheet or consult our company representative.
Supplier	Nordic Lubricants AB Castrol Industrial Lubricants and Services Box 49104 S-100 28 Stockholm Sweden Tel.: +46 (0)8-441 11 00 Fax.: +46 (0)8-651 01 35
EMERGENCY TELEPHONE NUMBER	Carechem: +44 (0) 208 762 8322
E-mail address	MSDSadvice@bp.com

2. Hazards identification

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

Physical/chemical hazards	Not applicable.
Environmental hazards	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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.

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. Thickening agent.

Chemical name	CAS no.	%	EINECS / ELINCS.	Classification
Base oil - unspecified	Varies	20 - 50		Not classified. [2]
Zinc oxide	1314-13-2	5 - 10	215-222-5	N; R50/53 [1] [2]
Fatty amide derivative.	Proprietary	1 - 5		Xi; R41, R38 [1]
titanium dioxide	13463-67-7	1 - 5	236-675-5	Not classified. [2]

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. This material is toxic 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
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 spilled 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 spilled 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. May be harmful to the environment if released in large quantities.

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 spilled 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

Avoid contact of spilled 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

Occupational exposure limits

Base oil - unspecified

Hyg gränsvärden enligt gällande AFS (Sweden).

KTV: 3 mg/m³ 15 minute(s). Form: Oil mist, including oil fumes

NGV: 1 mg/m³ 8 hour(s). Form: Oil mist, including oil fumes

Zinc oxide

AFS 2005:17 (Sweden).

TWA: 5 mg/m³ 8 hour(s). Issued/Revised: 8/1996 Form: total dust

titanium dioxide

AFS 2005:17 (Sweden).

TWA: 5 mg/m³ 8 hour(s). Issued/Revised: 8/1996 Form: total dust

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

kaolin

ACGIH TLV (United States).

TWA: 2 mg/m³ 8 hour(s). Issued/Revised: 5/1996 Form: Respirable fraction

Zinc oxide

ACGIH TLV (United States).

TWA: 2 mg/m³ 8 hour(s). Issued/Revised: 1/2003

STEL: 10 mg/m³ 15 minute(s). Issued/Revised: 1/2003

titanium dioxide

ACGIH TLV (United States).

TWA: 10 mg/m³ 8 hour(s). Issued/Revised: 5/1996

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, 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 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 Paste

Colour White.

Odour Mild

Important health, safety and environmental information

Flash point Closed cup: >220°C (>428°F)

Vapour pressure 0.01 kPa (<0.075 mm Hg) at 20°C

Density 1000 kg/m³ (>1 g/cm³) at 20°C

Solubility Very slightly soluble 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 Avoid release to the environment. Refer to special instructions/safety data sheet.

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

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. Very slightly soluble in water.

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

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 spilled material and runoff and contact with soil, waterways, drains and sewers.

Unused product

European waste catalogue (EWC) 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

Product name	Optimol Paste White T	Product code	53853-DE03	Page: 3/5
Version 1	Date of issue 23 January 2009	Format Sweden	Language ENGLISH	
		(Sweden)	(ENGLISH)	

Methods of disposal

The regulations regarding manufacturers' responsibility for packaging material waste is regulated in "Förordningen om producentansvar för förpackningar". Packaging materials are to be reused or recycled in accordance with the goals outlined in this regulation. The company complies with this manufacturer's responsibility through its association with REPA, which is a subsidiary company of four materials handling companies. The materials handling companies collect, remove and process used and sorted packaging materials through the employment of contractors. Questions regarding collection of packaging materials on a local basis may be directed to the materials company and its contractors. For further information, contact REPA, www.repa.se.

Emptying instructions for steel drums: Scrape the drum very clean and send to an authorized recycler.

14 . Transport information

International transport regulations

Regulatory information	UN number	Proper shipping name	Class	PG*	Label	Additional information
ADR/RID Classification	UN3077	Environmentally hazardous substance, solid, n.o.s. (Zinc oxide)	9	III		Hazard identification number 90 CEFC Tremcard 90GM7-III
ADNR Classification	UN3077	Environmentally hazardous substance, solid, n.o.s. (Zinc oxide)	9	III		-
IMDG Classification	UN3077	Environmentally hazardous substance, solid, n.o.s. (Zinc oxide). Marine pollutant	9	III		Emergency schedules (EmS) F-A, S-F Marine pollutant
ICAO/IATA Classification	UN3077	Environmentally hazardous substance, solid, n.o.s. (Zinc oxide)	9	III		

PG* : Packing group

UK Emergency Action Code:

ADR/RID Classification code:

ADNR Classification code:

15 . Regulatory information

Label requirements

Hazard symbol or symbols



Dangerous for the environment

Indication of danger

Risk phrases

H51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases

S61- Avoid release to the environment. Refer to special instructions/safety data sheet.

Other regulations

Europe inventory

All components are listed or exempted.

United States inventory (TSCA 8b)

At least one component is not listed.

Australia inventory (AICS)

At least one component is not listed.

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.

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.
R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

History

Date of issue/ Date of revision 23/01/2009.

Date of previous issue 22/05/2007.

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.