SAFETY DATA SHEET



Identification of the substance/preparation and company/undertaking

Identification of the substance or preparation 1.1

Product name Energrease MM-EP 2

SDS no. 401964

1.2 Use of the Grease for industrial applications

For specific application advice see appropriate Technical Data Sheet or consult our company substance/preparation

representative.

Company/undertaking identification

BP Petrolleri A.Ş. **Supplier**

Sarı Kanarya Sokak No:14 K2 Plaza

34742 Kozyatağı, İstanbul

TÜRKİYE

MSDSadvice@bp.com E-mail address

Emergency telephone number

EMERGENCY TELEPHONE Carechem: +44 (0) 208 762 8322 (24 hours)

NUMBER

2. Composition/information on ingredients

Substance/preparation

Highly refined base oil (IP 346 DMSO extract < 3%). Soap. Proprietary performance additives.

Chemical name	CAS no.	%	EINECS / ELINCS.	Classification	
Naphthenic acids, zinc salts	12001-85-3	1 - 5	234-409-2	Xi; R36/38 R52/53	[1]
Zinc alkyl dithiophosphate	68649-42-3	0.1 - 1	272-028-3	Xi; R36 N; R51/53	[1]
Zinc oxide	1314-13-2	0.1 - 1	215-222-5	N; R50/53	[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.

Hazards identification 3.

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

Environmental hazards Harmful 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.

First-aid measures 4.

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 In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes.

Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritation

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.

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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 Use foam or all-purpose dry chemical to extinguish. 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

Decomposition products may include the following materials: carbon dioxide

products

carbon monoxide metal oxide/oxides
None identified.

Special fire-fighting

procedures

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. 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. Absorb with an inert material and place in an

appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

7. Handling and storage

7.1 Handling Avoid contact of spilt material and runoff with soil and surface waterways.

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

Not suitable Prolonged exposure to elevated temperature

7.3 Specific uses For specific application advice see appropriate Technical Data Sheet or consult our company

representative.

8. Exposure controls/personal protection

8.1 Occupational exposure limits

Ingredient name Occupational exposure limits

Zinc oxide NIOSH REL (United States).

CEIL: 15 mg/m³ Issued/Revised: 6/1994 Form: Dust

TWA: 5 mg/m³ 10 hour(s). Issued/Revised: 6/1994 Form: Dust and fumes STEL: 10 mg/m³ 15 minute(s). Issued/Revised: 6/1994 Form: Fume

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.

8.2 Exposure controls

8.2.1 Occupational exposure controls

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

All chemicals should be assessed for their risks to health and appropriate control measures put in place to prevent or adequately control exposure. A hierarchy of control measures exists (e.g. elimination, substitution, general ventilation, containment, systems of work, changing the process or activity) that must be considered before use of personal protective equipment. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in

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good condition and properly maintained.

Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards.

The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

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.

8.2.1.1 Respiratory protection

Respiratory protective equipment is not normally required where there is adequate natural or local exhaust ventilation to control exposure.

In case of insufficient ventilation, wear suitable respiratory equipment. Respiratory protective equipment must be checked to ensure it fits correctly each time it is worn.

Air-filtering respirators, also called air-purifying respirators, will not be adequate under conditions of oxygen deficiency (i.e. low oxygen concentration), and would not be considered suitable where airborne concentrations of chemicals with a significant hazard are present. In these cases air-supplied breathing apparatus will be required.

Provided an air-filtering/air-purifying respirator is suitable, a filter for particulates can be used for mist or fume. Use filter type P or comparable standard. A combination filter for particles and organic gases and vapours (boiling point >65°C) may be required if vapour or abnormal odour is also present due to high product temperature. Use filter type AP or comparable standard.

8.2.1.2 Hand protection

Wear protective gloves if prolonged or repeated contact is likely. Wear chemical resistant gloves. Recommended: nitrile gloves.

Protective gloves will deteriorate over time due to physical and chemical damage. Inspect and replace gloves on a regular basis. The frequency of replacement will depend upon the circumstances of use.

8.2.1.3 Eye protection

Safety glasses with side shields.

8.2.1.4 Skin protection

Use of protective clothing is good industrial practice.

Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required.

8.2.2 Environmental exposure controls

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

All chemicals should be assessed for their risks to health and appropriate control measures put in place to prevent or adequately control exposure. A hierarchy of control measures exists (e.g. elimination, substitution, general ventilation, containment, systems of work, changing the process or activity) that must be considered before use of personal protective equipment. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained.

Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards.

The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

9. Physical and chemical properties

9.1 General information

9.1.1 Appearance

Physical state Grease
Colour Brown.

9.1.2 Odour Oily.

9.2 Important health, safety and environmental information

Flash point Open cup: >150°C (>302°F) [Cleveland.]

Density <1000 kg/m³ (<1 g/cm³) at 25°C

Solubility insoluble in water.

Partition coefficient

(LogKow)

>3

9.3 Other information Not available.

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10. Stability and reactivity

Stability The product is stable.

10.1 Conditions to avoid

Possibility of hazardous

reactions

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

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

10.3 Hazardous

decomposition products

Combustion products may include the following:

carbon oxides metal oxide/oxides

No specific data.

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

11. Toxicological information

Acute toxicity Unlikely to cause more than transient stinging or redness if accidental eye contact occurs.

Unlikely to cause harm to the skin on brief or occasional contact but prolonged or repeated exposure may

lead to dermatitis.

Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause

nausea and diarrhoea.

At normal ambient temperatures this product will be unlikely to present an inhalation hazard because of its low volatility. May be harmful by inhalation if exposure to vapour, mists or fumes resulting from thermal

decomposition products occurs.

Chronic toxicity

Chronic effects No known significant effects or critical hazards.

Effects and symptoms

EyesNo significant health hazards identified.SkinNo significant health hazards identified.InhalationNo significant health hazards identified.IngestionNo significant health hazards identified.

12. Ecological information

12.1 Ecotoxicity

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

12.2 Mobility Spillages are unlikely to penetrate the soil.

12.3 Persistence/degradability Not readily biodegradable.

12.4 Bioaccumulative potential This product is not expected to bioaccumulate through food chains in the environment.

12.5 Other ecological information This product is unlikely to disperse in water.

13. Disposal considerations

Disposal considerations / Waste information

Other 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.

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At sea, used or unwanted product should be stored for eventual discharge into port approved waste oil

disposal facilities.

Refer to all national, regional, and local regulations for disposal requirements

14. Transport information

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

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15. Regulatory information

Classification and labelling have been performed according to EU directive 1999/45/EC as amended and adapted and Regulation on classification, packaging and labelling of Hazardous materials and preparations (26.12.2008-27092).

Label requirements

Risk phrases R52/53- Harmful 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 All components are listed or exempted.

(TSCA 8b)

Australia inventory (AICS)

Canada inventory

China inventory (IECSC)

Japan inventory (ENCS)

Korea inventory (KECI)

Philippines inventory

(PICCS)

Not determined.

Not determined.

Not determined.

16. Other information

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Full text of R-phrases referred R36- Irritating to eyes.

to in sections 2 and 3 R36/38- Irritating to eyes and 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. R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

History

Date of issue/ Date of 01/12/2009.

revision

Date of previous issueNo previous validationPrepared byProduct Stewardship

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.

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