## SAFETY DATA SHEET



Optigear BM 100

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

**Product identifier** Optigear BM 100

SDS# 450750 Code 450750-US03

Relevant identified uses of the substance or mixture and uses advised against

**Product use** Gear lubricant

For specific application advice see appropriate Technical Data Sheet or consult our

company representative.

BP Lubricants USA Inc. **Manufacturer** 

1500 Valley Road Wayne, NJ 07470

Telephone: +1-888-CASTROL

Supplier PAN AMERICAN ENERGY S.L., SUCURSAL

ARGENTINA AV. LEANDRO N. ALEM 1180

PISO 11 - C1001AAT

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Consultas Técnicas 0800-888-8088

**EMERGENCY HEALTH** 

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+1-703-527-3887 (CHEMTREC outside the US)

**EMERGENCY TELEPHONE** 

**NUMBER** 

#### SECTION 2: Hazards identification

SKIN IRRITATION - Category 3 Classification of the SKIN SENSITIZATION - Category 1 substance or mixture

AQUATIC HAZARD (ACUTE) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 3

**GHS** label elements

**Hazard pictograms** 



Signal word Warning

**Hazard statements** H316 - Causes mild skin irritation.

H317 - May cause an allergic skin reaction.

H412 - Harmful to aquatic life with long lasting effects.

**Precautionary statements** 

**Prevention** P280 - Wear protective gloves.

P273 - Avoid release to the environment.

P261 - Avoid breathing vapor.

P272 - Contaminated work clothing should not be allowed out of the workplace.

302 + P352 - IF ON SKIN: Wash with plenty of soap and water. Response

> P333 + P313 - If skin irritation or rash occurs: Get medical attention. P362 + P364 - Take off contaminated clothing and wash it before reuse.

**Product code** 450750-US03 Page: 1/16 Product name Optigear BM 100

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#### **SECTION 2: Hazards identification**

Storage Not applicable.

**Disposal** P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

Other hazards which do not result in classification

None known.

## **SECTION 3: Composition/information on ingredients**

**Substance/mixture** Mixture Highly refined mineral oil and additives.

Other means of identification

Not available.

Ingredient name	%	CAS number	
vistillates (petroleum), hydrotreated heavy paraffinic	≥75 - ≤90	CAS: 64742-54-7	
Distillates (petroleum), hydrotreated heavy paraffinic	≥10 - ≤25	CAS: 64742-54-7	
2-ethylhexyl 3-octyloxiran-2-octanoate	≤3	CAS: 141-38-8	
Residual oils (petroleum), solvent-dewaxed	≤3	CAS: 64742-62-7	
Zinc dialkyl dithiophosphate	≤2.4	CAS: 68457-79-4	
Sulfonic acids, petroleum, magnesium salts	≤3	CAS: 61789-87-5	
Reaction product of ammonium molybdate and C12-C24-diethoxylated alkylamine (1:5-1:3)	≤1.9	-	
maleic anhydride	≤0.1	CAS: 108-31-6	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

#### SECTION 4: First aid measures

	Description of	<u>t necessary</u>	<u>y first aid</u>	measures
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**Eye contact** In case of contact, immediately flush eyes with plenty of water for at least 15

minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing.

Check for and remove any contact lenses. Get medical attention.

Skin contact In case of contact, immediately flush skin with plenty of water for at least 15 minutes

while removing contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Wash clothing before reuse. Clean shoes thoroughly before reuse. In the event of any complaints or symptoms, avoid further exposure. Get medical attention. If skin irritation or rash occurs: Get

medical advice/attention.

Inhalation If inhaled, remove to fresh air. In case of inhalation of decomposition products in a

fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Get medical attention if symptoms occur.

**Ingestion** Do not induce vomiting unless directed to do so by medical personnel. Never give

anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Get medical attention if adverse

health effects persist or are severe.

**Protection of first-aiders**No action shall be taken involving any personal risk or without suitable training. It

may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear

gloves.

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#### **SECTION 4: First aid measures**

#### Most important symptoms/effects, acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

#### Indication of immediate medical attention and special treatment needed, if necessary

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

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments** No specific treatment.

## **SECTION 5: Firefighting measures**

**Extinguishing media** 

Suitable extinguishing

media

Unsuitable extinguishing

media

Use foam or all-purpose dry chemical to extinguish.

Do not use water jet.

Specific hazards arising from the chemical

Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects.

mal

Hazardous thermal decomposition products

Combustion products may include the following:

metal oxide/oxides

carbon oxides (CO, CO<sub>2</sub>) (carbon monoxide, carbon dioxide)

nitrogen oxides (NO, NO<sub>2</sub> etc.)

Special protective actions for fire-fighters

for fire-fighters

No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if

there is a fire.

Special protective equipment for fire-fighters

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

#### SECTION 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Contact emergency personnel. 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 vapor or mist. Provide adequate ventilation. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling.

For emergency responders

Entry into a confined space or poorly ventilated area contaminated with vapor, mist or fume is extremely hazardous without the correct respiratory protective equipment and a safe system of work. Wear self-contained breathing apparatus. Wear a suitable chemical protective suit. Chemical resistant boots. See also the information in "For non-emergency personnel".

**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.

#### Methods and materials for containment and cleaning up

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#### **SECTION 6: Accidental release measures**

**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.

Large spill

Stop leak if without risk. Move containers from spill area. Approach 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. Contaminated absorbent material may pose the same hazard as the spilled product. Dispose of via a licensed waste disposal contractor.

## **SECTION 7: Handling and storage**

#### **Precautions for safe handling**

**Protective measures** 

Fut on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Avoid contact of spilled material and runoff with soil and surface waterways.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. Contaminated work clothing should not be allowed out of the workplace. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Store and use only in equipment/containers designed for use with this product. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## **SECTION 8: Exposure controls/personal protection**

#### **Control parameters**

**Occupational exposure limits** 

Ingredient name	Exposure limits
Distillates (petroleum), hydrotreated heavy paraffinic	Ministry of Labor, Employment and Social Security. Argentina (Resolution 295,11/2003) (Argentina) [Aceite mineral] TWA 8 hours: 5 mg/m³. Form: mist. Issued/ Revised: 11/2003. STEL 15 minutes: 10 mg/m³. Form: mist. Issued/Revised: 11/2003.
Distillates (petroleum), hydrotreated heavy paraffinic	Ministry of Labor, Employment and Social Security. Argentina (Resolution 295,11/2003) (Argentina) [Aceite mineral] TWA 8 hours: 5 mg/m³. Form: mist. Issued/ Revised: 11/2003. STEL 15 minutes: 10 mg/m³. Form: mist. Issued/Revised: 11/2003.
Residual oils (petroleum), solvent-dewaxed	Ministry of Labor, Employment and Social Security. Argentina (Resolution

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## **SECTION 8: Exposure controls/personal protection**

295,11/2003) (Argentina) [Aceite mineral]

TWA 8 hours: 5 mg/m³. Form: mist. Issued/

Revised: 11/2003.

STEL 15 minutes: 10 mg/m³. Form: mist.

Issued/Revised: 11/2003.

Ministry of Labor, Employment and Social Security. Argentina (Resolution 295,11/2003) (Argentina) A4. Sensitizer. TWA 8 hours: 0.1 ppm. Issued/Revised:

11/2003.

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

#### **Biological exposure indices**

No exposure indices known.

# Appropriate engineering controls

maleic anhydride

All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. 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.

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

# **Environmental exposure** controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### Individual protection measures

**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. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

# Eye/face protection Skin protection Hand protection

Safety glasses with side shields.

Wear protective gloves if prolonged or repeated contact is likely. Wear 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.

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### **SECTION 8: Exposure controls/personal protection**

**Body protection** Use of protective clothing is good industrial practice.

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist

before handling this product.

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.

Other skin protection Appropriate footwear and any additional skin protection measures should be

selected based on the task being performed and the risks involved and should be

approved by a specialist before handling this product.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

For protection against metal working fluids, respiratory protection that is classified as "resistant to oil" (class R) or oil proof (class P) should be selected where appropriate. Depending on the level of airborne contaminants, an air-purifying, half-mask respirator (with HEPA filter) including disposable (P- or R-series) (for oil mists less than 50mg/m3), or any powered, air-purifying respirator equipped with hood or

helmet and HEPA filter (for oil mists less than 125 mg/m3).

Where organic vapours are a potential hazard during metalworking operations, a

combination particulate and organic vapour filter may be necessary.

The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

## **SECTION 9: Physical and chemical properties**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### **Appearance**

Physical state Liquid.
Color Brown.

Odor Not available.
Odor threshold Not available.

PH Not applicable.

Melting point/freezing point Not available.

Boiling point or initial Not available.

boiling point and boiling

range

Flash point Open cup: >200°C (>392°F) [Cleveland]

Pour point -21 °C

Evaporation rate

Flammability

Lower and upper explosion
Iimit/flammability limit

Not available.

Not available.

Vapor pressure

	Vapor Pressure at 20°C			Vap	Vapor pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	

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## **SECTION 9: Physical and chemical properties**

Pistillates (petroleum), hydrotreated heavy paraffinic	<0.07501	<0.01	ASTM D 5191			
Distillates (petroleum), hydrotreated heavy paraffinic	<0.07501	<0.01	ASTM D 5191			
Residual oils (petroleum), solvent- dewaxed	<0.07501	<0.01	ASTM D 5191			
Zinc dialkyl	0.000019	0.0000025	EU A.4	0.00017	0.000023	EU A.4

**Relative vapor density** 

Not available.

Density

<1000 kg/m³ (<1 g/cm³) at 15°C

Solubility(ies)

Media	Result
water	Not soluble

Partition coefficient: n-

octanol/water

Not applicable.

Auto-ignition temperature Decomposition temperature

Not available. Not available.

Viscosity

Kinematic: 100 mm<sup>2</sup>/s (100 cSt) at 40°C

Kinematic: 6.8 mm<sup>2</sup>/s (6.8 cSt) at 100°C

VOC 3.5 g/l

**Particle characteristics** 

Median particle size Not applicable.

## **SECTION 10: Stability and reactivity**

Reactivity No specific test data available for this product. Refer to Conditions to avoid and

Incompatible materials for additional information.

**Chemical stability** The product is stable.

Possibility of hazardous

reactions

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

Under normal conditions of storage and use, hazardous polymerization will not

occur.

Conditions to avoid Mo specific data.

**Incompatible materials** Reactive or incompatible with the following materials: oxidizing materials.

Hazardous decomposition

products

Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

## **SECTION 11: Toxicological information**

**Information on toxicological effects** 

**Acute toxicity** 

Product/ingredient name Result

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vistillates (petroleum), hydrotreated heavy paraffinic

Distillates (petroleum), hydrotreated heavy

Reaction product of ammonium molybdate

and C12-C24-diethoxylated alkylamine (1:5-1:

paraffinic

3)

**Rat - Oral - LD50** >5000 mg/kg OECD 401

Rabbit - Dermal - LD50

>5000 mg/kg OECD 402

Rat - Inhalation - LC50 Dusts and mists

>5 mg/l [4 hours] OECD 403 **Rat - Oral - LD50** 

>5000 mg/kg OECD 401

Rabbit - Dermal - LD50

>5000 mg/kg OECD 402

Rat - Inhalation - LC50 Dusts and mists

>5 mg/l [4 hours] OECD 403 **Rat - Oral - LD50** 

Zinc dialkyl dithiophosphate

Rat - Oral - LD50
3600 mg/kg

OECD 401

Rat - Dermal - LD50

>20000 mg/kg OECD 402 **Rat - Oral - LD50** >2000 mg/kg OECD 401

> **Rat - Dermal - LD50** >2000 mg/kg OECD 402 **Rat - Oral - LD50** 1090 mg/kg

OECD 401

Rabbit - Dermal - LD50

Rabbit - Skin - Mild irritant

Rabbit - Skin - Mild irritant

Rabbit - Skin - Moderate irritant

2620 mg/kg

2020 mg/kg NN

DIN

**Skin corrosion/irritation** 

maleic anhydride

Product/ingredient name Result

Distillates (petroleum), hydrotreated heavy paraffinic

Distillates (petroleum), hydrotreated heavy

paraffinic

Zinc dialkyl dithiophosphate Rabbit - Skin - Irritant

**OECD 404** 

**OECD 404** 

**OECD 404** 

**OECD 404** 

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

3)

maleic anhydride Rabbit - Skin - Corrosive

**OECD 404** 

Serious eye damage/eye irritation

Product/ingredient name Result

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Distillates (petroleum), hydrotreated heavy paraffinic

Distillates (petroleum), hydrotreated heavy paraffinic

Zinc dialkyl dithiophosphate

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

maleic anhydride

Rabbit - Eyes - Non-irritating to the eyes.

**OECD 405** 

Rabbit - Eyes - Non-irritating to the eyes.

**OECD 405** 

Rabbit - Eyes - Severe irritant

**OECD 405** 

Rabbit - Eyes - Redness of the conjunctivae

OECD 405

<u>Irritation score</u>: ≥2

Rabbit - Eyes - Corrosive

OECD 405

#### Respiratory corrosion/irritation

Not available.

#### Respiratory or skin sensitization

#### Product/ingredient name

Distillates (petroleum), hydrotreated heavy paraffinic

Distillates (petroleum), hydrotreated heavy paraffinic

Zinc dialkyl dithiophosphate

Reaction product of ammonium molybdate and C12-C24-diethoxylated alkylamine (1:5-1: 2)

maleic anhydride

#### Result

Guinea pig - skin

**OECD 406** 

Result: Not sensitizing

Guinea pig - skin

OECD 406

Result: Not sensitizing
Guinea pig - skin

**OECD 406** 

Result: Not sensitizing
Guinea pig - skin

**OECD 406** 

Result: Sensitizing
Mouse - skin
Result: Sensitizing
Rat - Respiratory
Result: Sensitizing

#### Germ cell mutagenicity

#### Product/ingredient name

Distillates (petroleum), hydrotreated heavy paraffinic

Distillates (petroleum), hydrotreated heavy

#### Result

In vitro - Bacteria

**Bacterial Reverse Mutation Test** 

Result: Negative

In vitro - Mammal - species unspecified

In vitro Mammalian Chromosomal Aberration Test

Result: Negative

In vivo - Mammal - species unspecified Mammalian Erythrocyte Micronucleus Test

Result: Negative

In vitro - Mammal - species unspecified In vitro Mammalian Cell Gene Mutation Test

Result: Negative In vitro - Bacteria

**Bacterial Reverse Mutation Test** 

Result: Negative

In vitro - Mammal - species unspecified

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paraffinic

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In vitro Mammalian Chromosomal Aberration Test

Result: Negative

In vivo - Mammal - species unspecified Mammalian Erythrocyte Micronucleus Test

Result: Negative

In vitro - Mammal - species unspecified In vitro Mammalian Cell Gene Mutation Test

Result: Negative In vitro - Bacteria

**Bacterial Reverse Mutation Test** 

Result: Negative

In vitro - Mammal - species unspecified In vitro Mammalian Cell Gene Mutation Test

Result: Negative

In vivo - Mammal - species unspecified Mammalian Erythrocyte Micronucleus Test

Result: Negative
In vitro - Bacteria

OECD 471
Result: Negative

In vitro - Mammalian-Animal

OECD 476
Result: Negative

In vivo - Mammalian-Animal

OECD 475
Result: Negative

#### Carcinogenicity

maleic anhydride

Product/ingredient name

Zinc dialkyl dithiophosphate

istillates (petroleum), hydrotreated heavy paraffinic

Distillates (petroleum), hydrotreated heavy paraffinic

#### Result

Mouse - Dermal - Unspecified

OECD 451
Result: Negative

Mouse - Dermal - Unspecified

OECD 451
Result: Negative

#### **Reproductive toxicity**

Product/ingredient name

Distillates (petroleum), hydrotreated heavy paraffinic

Distillates (petroleum), hydrotreated heavy paraffinic

Zinc dialkyl dithiophosphate

#### Result

Rat - Oral OECD 421

<u>Maternal toxicity</u>: Negative <u>Fertility effects</u>: Negative <u>Developmental</u>: Negative

Rat - Oral OECD 421

<u>Maternal toxicity</u>: Negative <u>Fertility effects</u>: Negative <u>Developmental</u>: Negative

Rat - Oral OECD 422

Maternal toxicity: Positive Fertility effects: Negative Developmental: Negative

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#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Product/ingredient name Result

maleic anhydride SPECIFIC TARGET ORGAN TOXICITY (REPEATED

EXPOSURE) (respiratory system) (inhalation) - Category 1

**Aspiration hazard** 

Product/ingredient name Result

☑istillates (petroleum), hydrotreated heavy

paraffinic

ASPIRATION HAZARD - Category 1

#### Information on the likely routes of exposure

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

#### Potential acute health effects

**Eye contact** No known significant effects or critical hazards.

**Skin contact** Causes mild skin irritation. Defatting to the skin. May cause an allergic skin

reaction.

**Inhalation** Exposure to decomposition products may cause a health hazard. Serious effects

may be delayed following exposure.

**Ingestion** Irritating to mouth, throat and stomach.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** Adverse symptoms may include the following:

pain or irritation watering

radpage

redness

**Skin contact** Adverse symptoms may include the following:

irritation redness dryness cracking

InhalationNo specific data.IngestionNo specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate

Not available.

effects

Potential delayed effects Not available.

**Long term exposure** 

Potential immediate

Not available.

effects

Potential delayed effects Not available.

#### Potential chronic health effects

General

No known significant effects or critical hazards.

Carcinogenicity

No known significant effects or critical hazards.

Mutagenicity

No known significant effects or critical hazards.

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Developmental effects Fertility effects No known significant effects or critical hazards. No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

**Acute toxicity estimates** 

Route ATE value

**Ø**ral 178279.54 mg/kg

## **SECTION 12: Ecological information**

#### **Toxicity**

paraffinic

Product/ingredient name

Distillates (petroleum), hydrotreated heavy paraffinic

Distillates (petroleum), hydrotreated heavy

Result

Acute - EL50 OECD 201

Algae

>100 mg/l [72 hours]

Acute - EL50 OECD 202 Daphnia

>10000 mg/l [48 hours]

Acute - LL50 OECD 203

Fish

>100 mg/l [96 hours] Chronic - NOEL

OECD 201 Algae

≥100 mg/l [72 hours] **Chronic - NOEL** 

OECD 211 Daphnia

10 mg/l [21 days]

Acute - EL50 OECD 201

Algae

>100 mg/l [72 hours]

Acute - EL50 OECD 202 Daphnia

>10000 mg/l [48 hours]

Acute - LL50 OECD 203 Fish

>100 mg/l [96 hours] Chronic - NOEL

OECD 201 Algae

≥100 mg/l [72 hours] **Chronic - NOEL** 

OECD 211 Daphnia

Algae

10 mg/l [21 days]

Acute - ErL50 OECD 201

Zinc dialkyl dithiophosphate

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24 mg/l [72 hours]

Acute - EL50

**OECD 202** Daphnia

23 mg/l [48 hours]

Acute - LL50 **OECD 203** 

Fish

4.5 mg/l [96 hours]

**Chronic - NOELR** 

**OECD 201** Algae

10 mg/l [72 hours]

**Chronic - EC50** 

Daphnia

6.8 mg/l [48 hours]

Acute - EC50

**OECD 201** 

Algae

65.78 mg/l [72 hours]

Acute - EC50 **OECD 202** 

Daphnia

37.9 mg/l [48 hours]

Acute - LC50 **OECD 203** 

Fish

75 mg/l [72 hours]

**Chronic - EC10** 

**OECD 201** 

Algae

10.4 mg/l [72 hours]

**Environmental effects** 

maleic anhydride

This material is harmful to aquatic life with long lasting effects.

## Persistence and degradability

Not expected to be rapidly degradable.

#### **Product/ingredient name**

Distillates (petroleum), hydrotreated heavy

Reaction product of ammonium molybdate

and C12-C24-diethoxylated alkylamine (1:5-1:

paraffinic

Distillates (petroleum), hydrotreated heavy

paraffinic

Zinc dialkyl dithiophosphate

maleic anhydride

#### Result

OECD 301F

31% [28 days] - Not readily

OECD 301F

31% [28 days] - Not readily

OECD 301B

1.5% [28 days] - Not readily

OECD 301B

>90% [25 days]

#### **Bioaccumulative potential**

Not available.

#### **Mobility in soil**

Soil/Water partition

Not available.

coefficient

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**Mobility** 

Non-volatile. Liquid. insoluble in water.

Other adverse effects No known significant effects or critical hazards.

## **SECTION 13: Disposal considerations**

**Disposal methods** 

The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA/ICAO
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-
Transport hazard class(es)	-	-	-	-
Packing group	-	-	-	-
Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

Special precautions for user Not available.

Transport in bulk according

Not available.

to IMO instruments

## **SECTION 15: Regulatory information**

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

**Montreal Protocol** 

Not listed.

**Stockholm Convention on Persistent Organic Pollutants** 

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

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## **SECTION 15: Regulatory information**

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals** 

Not listed.

Other regulations

**Australia inventory (AIIC)** All components are listed or exempted.

At least one component is not listed in DSL but all such components are listed in Canada inventory

NDSL.

**China inventory (IECSC)** All components are listed or exempted. Japan inventory (CSCL) At least one component is not listed. **Korea inventory (KECI)** At least one component is not listed. At least one component is not listed.

**Philippines inventory** 

(PICCS)

All components are listed or exempted.

**Taiwan Chemical Substances Inventory** 

(TCSI)

**United States inventory** 

(TSCA 8b)

All components are active or exempted.

**REACH Status** For the REACH status of this product please consult your company contact, as

identified in Section 1.

#### SECTION 16: Other information

**History** 

Date of issue/Date of

revision

11/07/2025.

Date of previous issue

04/17/2024.

Prepared by

**Product Stewardship** 

Key to abbreviations

ADN = European Provisions concerning the International Carriage of Dangerous

Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous

Goods by Road

ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

VOC = Volatile Organic Compound

Varies = may contain one or more of the following 64741-88-4, 64741-89-5, 64741-95-3, 64741-96-4, 64742-01-4, 64742-44-5, 64742-45-6, 64742-52-5, 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-57-0, 64742-58-1, 64742-62-7, 64742-63-8, 64742-65-0, 64742-70-7, 72623-85-9, 72623-86-0,

72623-87-1

▼ Indicates information that has changed from previously issued version.

**Notice to reader** 

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#### **SECTION 16: Other information**

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 BP Group.

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