

SAFETY DATA SHEET



Optigear BM 150

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

Product identifier Optigear BM 150
SDS # 450751
Code 450751-AR08

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.

Manufacturer BP Lubricants USA Inc.
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
CIUDAD AUTÓNOMA DE BUENOS AIRES.

EMERGENCY HEALTH INFORMATION:

Consultas Técnicas 0800-888-8088
TELÉFONO PARA EMERGENCIAS (24 HORAS) CIQUIME: 0800-222-2933
+1-800-424-9300 (CHEMTREC USA)
+1-703-527-3887 (CHEMTREC outside the US)

EMERGENCY TELEPHONE NUMBER

SECTION 2: Hazards identification

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

Response

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
P333 + P313 - If skin irritation or rash occurs: Get medical attention.
P362 + P364 - Take off contaminated clothing and wash it before reuse.

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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

Defatting to the skin.

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
Distillates (petroleum), solvent-dewaxed heavy paraffinic	≥75 - ≤90	CAS: 64742-65-0
Residual oils (petroleum), solvent-dewaxed	≥10 - ≤25	CAS: 64742-62-7
2-ethylhexyl 3-octyloxiran-2-octanoate	≤3	CAS: 141-38-8
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 necessary first aid measures

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 Use foam or all-purpose dry chemical to extinguish.

Unsuitable extinguishing media 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.

Hazardous thermal decomposition products Combustion products may include the following:
metal oxide/oxides
carbon oxides (CO, CO₂) (carbon monoxide, carbon dioxide)
nitrogen oxides (NO, NO₂ etc.)

Special protective actions 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

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.

SECTION 6: Accidental release measures

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

Put 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.

Not suitable

Prolonged exposure to elevated temperature

SECTION 8: Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Distillates (petroleum), solvent-dewaxed 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 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.
maleic anhydride	Ministry of Labor, Employment and Social Security. Argentina (Resolution 295,11/2003) (Argentina) A4. Sensitizer. TWA 8 hours: 0.1 ppm. Issued/Revised:

SECTION 8: Exposure controls/personal protection

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

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

Safety glasses with side shields.

Skin protection

Hand protection

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.

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.

SECTION 8: Exposure controls/personal protection

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

Color

Odor

Odor threshold

pH

Melting point/freezing point

Boiling point or initial boiling point and boiling range

Flash point

Pour point

Evaporation rate

Flammability

Lower and upper explosion limit/flammability limit

Vapor pressure

Liquid.

Brown.

Not available.

Not available.

Not applicable.

Not available.

Not available.

Open cup: 225°C (437°F) [Cleveland ASTM D 92]

-18 °C

Not available.

Not available.

Not available.

Ingredient name	Vapor Pressure at 20°C			Vapor pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
Distillates (petroleum), solvent-dewaxed heavy paraffinic	<0.07501	<0.01	ASTM D 5191			
Residual oils (petroleum), solvent-dewaxed	<0.07501	<0.01	ASTM D 5191			
Zinc dialkyl dithiophosphate	0.000019	0.0000025	EU A.4	0.00017	0.000023	EU A.4

Relative vapor density

Density

Solubility(ies)

Not available.

<1000 kg/m³ (<1 g/cm³) at 15°C

Media	Result
Water	Not soluble

Partition coefficient: n-octanol/water

Not applicable.

SECTION 9: Physical and chemical properties

Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Kinematic: 135 to 165 mm²/s (135 to 165 cSt) at 40°C Kinematic: 15 mm²/s (15 cSt) at 100°C (ASTM D 445)
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	Avoid all possible sources of ignition (spark or flame).
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
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Rat - Oral - LD50 >5000 mg/kg OECD 401 Rat - Dermal - LD50 >2000 mg/kg OECD 402 Rat - Inhalation - LC50 Dusts and mists >5.53 mg/l [4 hours] OECD 403
Zinc dialkyl dithiophosphate	Rat - Oral - LD50 3600 mg/kg OECD 401 Rat - Dermal - LD50 >20000 mg/kg OECD 402
Reaction product of ammonium molybdate and C12-C24-diethoxylated alkylamine (1:5-1:3)	Rat - Oral - LD50 >2000 mg/kg OECD 401 Rat - Dermal - LD50 >2000 mg/kg OECD 402
maleic anhydride	Rat - Oral - LD50 1090 mg/kg OECD 401 Rabbit - Dermal - LD50 2620 mg/kg

SECTION 11: Toxicological information

DIN

Skin corrosion/irritation

Product/ingredient name

Distillates (petroleum), solvent-dewaxed heavy paraffinic
Zinc dialkyl dithiophosphate

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

Result

Rabbit - Skin - Non-irritant to skin.

Rabbit - Skin - Irritant
OECD 404

Rabbit - Skin - Moderate irritant
OECD 404

Rabbit - Skin - Corrosive
OECD 404

Serious eye damage/eye irritation

Product/ingredient name

Distillates (petroleum), solvent-dewaxed heavy paraffinic
Zinc dialkyl dithiophosphate

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

Result

Rabbit - Eyes - Non-irritating to the eyes.
OECD 405

Rabbit - Eyes - Severe irritant
OECD 405

Rabbit - Eyes - Redness of the conjunctivae
OECD 405
Irritation score: ≥2

Rabbit - Eyes - Corrosive
OECD 405

Respiratory corrosion/irritation

Not available.

Respiratory or skin sensitization

Product/ingredient name

Distillates (petroleum), solvent-dewaxed heavy paraffinic

Zinc dialkyl dithiophosphate

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

Mouse - skin
Result: Sensitizing

Rat - Respiratory
Result: Sensitizing

Germ cell mutagenicity

Product/ingredient name

Result

SECTION 11: Toxicological information

 Distillates (petroleum), solvent-dewaxed heavy paraffinic

Zinc dialkyl dithiophosphate

maleic anhydride

In vitro - Bacteria
OECD [Bacterial Reverse Mutation Test]
Result: Negative
In vitro - Mammal - species unspecified
OECD [In vitro Mammalian Chromosomal Aberration 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

Product/ingredient name

 Distillates (petroleum), solvent-dewaxed heavy paraffinic

Result
Mouse - Dermal - Unspecified
OECD 451
Result: Negative

Reproductive toxicity

Product/ingredient name

 Distillates (petroleum), solvent-dewaxed heavy paraffinic

Zinc dialkyl dithiophosphate

Result
Rat - Oral
OECD 421
Maternal toxicity: Negative
Fertility effects: Negative
Developmental: Negative
Rat - Oral
OECD 422
Maternal toxicity: Positive
Fertility effects: Negative
Developmental: Negative

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Product/ingredient name

 maleic anhydride

Result
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (respiratory system) (inhalation) - Category 1

SECTION 11: Toxicological information

Aspiration hazard

Not available.

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 redness
Skin contact	Adverse symptoms may include the following: irritation redness dryness cracking
Inhalation	No specific data.
Ingestion	No specific data.

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

Short term exposure

Potential immediate effects	Not available.
Potential delayed effects	Not available.

Long term exposure

Potential immediate effects	Not available.
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.
Developmental effects	No known significant effects or critical hazards.
Fertility effects	No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	178279.54 mg/kg

SECTION 12: Ecological information

Toxicity

Product/ingredient name

Distillates (petroleum), solvent-dewaxed heavy paraffinic

Zinc dialkyl dithiophosphate

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

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 - ErL50
OECD 201
Algae
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

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

SECTION 12: Ecological information

Persistence and degradability

Expected to be biodegradable.

Product/ingredient name	Result
Distillates (petroleum), solvent-dewaxed heavy paraffinic	OECD 301F 31% [28 days] - Not readily
Zinc dialkyl dithiophosphate	OECD 301B 1.5% [28 days] - Not readily
maleic anhydride	OECD 301B >90% [25 days]

Bioaccumulative potential

Not available.

Mobility in soil

Soil/Water partition coefficient	Not available.
Mobility	Liquid. insoluble in water.

Other adverse effectsNo 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.
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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.

SECTION 14: Transport information

Additional
information

-

-

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Special precautions for user Not available.

Transport in bulk according to IMO instruments Not available.

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)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Other regulations

Australia inventory (AIC)

☒ All components are listed or exempted.

Canada inventory

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

Philippines inventory (PICCS)

At least one component is not listed.

Taiwan Chemical Substances Inventory (TCSI)

All components are listed or exempted.

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 10/02/2025.

Date of previous issue 03/22/2022.

Prepared by Product Stewardship

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SECTION 16: Other information

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

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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