




SECTION 1: IDENTIFICATION

- 1.1 GHS Product identifier:** BRAVA MOTUS - SAE 10W-40 4T
Other means of identification:
Non-applicable
- 1.2 Recommended use of the chemical and restrictions on use:**
Relevant uses: Lubricant
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:**
OLEIN REFINERY CORP
Carr. 3 Km. 90.4 BO Aguacate
00767 Yabucoa - PR
Phone: 7872662103
lab@oleincorp.com
- 1.4 Emergency phone number:**

SECTION 2: HAZARD(S) IDENTIFICATION

- 2.1 Classification of the substance or mixture:**
29 CFR 1910.1200:
Classification of this product has been carried out in accordance with paragraph (d) of § 1910.1200.
Carc. 1B: Carcinogenicity, Category 1B, H350
- 2.2 Label elements:**
29 CFR 1910.1200:
Danger
- 
- Hazard statements:**
Carc. 1B: H350 - May cause cancer.
- Precautionary statements:**
P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P308+P313: IF exposed or concerned: Get medical advice/attention.
P405: Store locked up.
P501: Dispose of the contents/containers according to the local, state and federal regulations.
- Substances that contribute to the classification**
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Distillates (petroleum), solvent-refined heavy paraffinic
- 2.3 Hazards not otherwise classified (HNOC):**
Non-applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS





- 3.1 Substances:**
Non-applicable
- 3.2 Mixtures:**
Chemical description: Oil/s
Components:

- CONTINUED ON NEXT PAGE -



SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

Remaining components are non-hazardous and/or present at amounts below reportable limits. The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200. Therefore, in accordance with Appendix D to § 1910.1200, the product contains:

| Identification | Chemical name/Classification | Concentration |
|-----------------|--|---|
| CAS: 72623-87-1 | Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based Carc. 1B: H350 - Danger |  75 - <100 % |
| CAS: 68649-42-3 | Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts Eye Irrit. 2A: H319; Skin Irrit. 2: H315 - Warning |  <10 % |
| CAS: 64741-88-4 | Distillates (petroleum), solvent-refined heavy paraffinic Carc. 1B: H350 - Danger |  <10 % |
| CAS: 61789-86-4 | Sulfonic acids, petroleum, calcium salts (TBN < 300) Skin Sens. 1B: H317 - Warning |  <10 % |

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

SECTION 4: FIRST-AID MEASURES

4.1 Description of necessary measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

This product does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

By skin contact:

This product is not classified as hazardous when in contact with the skin. However, in case of skin contact it is recommended to remove contaminated clothes and shoes, rinse the skin or shower the person affected if necessary thoroughly with cold water and neutral soap. In case of serious reaction consult a doctor.

By eye contact:

Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

4.2 Most important symptoms/effects, acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

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

Non-applicable

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable (and unsuitable) extinguishing media:

Suitable extinguishing media:

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO₂).

Unsuitable extinguishing media:

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

5.2 Specific hazards arising from the chemical:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Special protective equipment and precautions for fire-fighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

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SECTION 5: FIRE-FIGHTING MEASURES (continued)

Additional provisions:

As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Only properly trained personnel should be involved in firefighting. Evacuate nonessential personnel from the fire area. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

For emergency responders:

See section 8.

6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

6.3 Methods and materials for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current standards 29 CFR 1910 Occupational Safety and Health Standards. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: 41 °F

Maximum Temp.: 86 °F

Maximum time: 12 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace:

Oils: PEL-TWA= 5mg/m³

8.2 Appropriate engineering controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protection Equipment. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation, the information on clothing performance must be combined with professional judgment, and a clear understanding of the clothing application, to provide the best protection to the worker. All chemical protective clothing use must be based on a hazard assessment to determine the risks for exposure to chemicals and other hazards. Conduct hazard assessments in accordance with 29 CFR 1910.132.

B.- Respiratory protection

| Pictogram | PPE | Remarks |
|--|-----------------------------------|--|
| Mandatory respiratory tract protection | Filter mask for gases and vapours | Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment. Use respirator in accordance with manufacturer's use limitations and OSHA standard 1910.134 (29CFR) |

C.- Specific protection for the hands

| Pictogram | PPE | Remarks |
|-------------------------------|---|--|
| Mandatory hand protection | NON-disposable chemical protective gloves | The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin. Use gloves in accordance with manufacturer's use limitations and OSHA standard 1910.138 (29CFR) |

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Ocular and facial protection

| Pictogram | PPE | Remarks |
|-------------------------------|-------------|---|
| Mandatory face protection | Face shield | Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. Use this PPE in accordance with manufacturer's use limitations and OSHA standard 1910.133 (29CFR) |

E.- Bodily protection

| Pictogram | PPE | Remarks |
|--|---|--|
| Mandatory complete body protection | Disposable clothing for protection against chemical risks | For professional use only. Clean periodically according to the manufacturer's instructions. |
| Mandatory foot protection | Safety footwear for protection against chemical risk | Replace boots at any sign of deterioration. Use foot protection in accordance with manufacturer's use limitations and OSHA standard 1910.136 (29CFR) |

F.- Additional emergency measures

| Emergency measure | Standards | Emergency measure | Standards |
|----------------------|---|----------------------|--|
| Emergency shower | ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011 | Eyewash stations | DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011 |

Environmental exposure controls:

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

National volatile organic compound emission standards (40 CFR Part 59):

| | |
|--------------------------------|-----------------------------|
| V.O.C. (Subpart C - Consumer): | 0 % weight |
| V.O.C. (Coatings) at 68 °F: | 0 kg/m ³ (0 g/L) |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

| | |
|--------------------------|------------------|
| Physical state at 68 °F: | Liquid |
| Appearance: | Not available |
| Color: | Not available |
| Odor: | Not available |
| Odour threshold: | Non-applicable * |

Volatility:

| | |
|--|------------------|
| Boiling point at atmospheric pressure: | 540 °F |
| Vapour pressure at 68 °F: | 5.89E-2 Pa |
| Vapour pressure at 122 °F: | 1.97 Pa (0 kPa) |
| Evaporation rate at 68 °F: | Non-applicable * |

Product description:

| | |
|--|--------------------------------------|
| Density at 68 °F: | 887.8 kg/m ³ |
| Relative density at 68 °F: | 0.888 |
| Dynamic viscosity at 68 °F: | Non-applicable * |
| Kinematic viscosity at 68 °F: | Non-applicable * |
| Kinematic viscosity at 104 °F: | Non-applicable * |
| Kinematic viscosity at 212 °F: | 14.5 mm ² /s (ASTM D-445) |
| Concentration: | Non-applicable * |
| pH: | Non-applicable * |
| Vapour density at 68 °F: | Non-applicable * |
| Partition coefficient n-octanol/water 68 °F: | Non-applicable * |
| Solubility in water at 68 °F: | Non-applicable * |
| Solubility properties: | Non-applicable * |
| Decomposition temperature: | Non-applicable * |
| Melting point/freezing point: | Non-applicable * |

Flammability:

| | |
|----------------------------|---------------------------|
| Flash Point: | Non Flammable (>199.4 °F) |
| Flammability (solid, gas): | Non-applicable * |
| Autoignition temperature: | 500 °F |
| Lower flammability limit: | Non-applicable * |
| Upper flammability limit: | Non-applicable * |

Particle characteristics:

| | |
|-----------------------------|----------------|
| Median equivalent diameter: | Non-applicable |
|-----------------------------|----------------|

9.2 Other information:

*Not relevant due to the nature of the product, not providing information property of its hazards.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Information with regard to physical hazard classes:

| | |
|--|------------------|
| Explosive properties: | Non-applicable * |
| Oxidising properties: | Non-applicable * |
| Corrosive to metals: | Non-applicable * |
| Heat of combustion: | Non-applicable * |
| Aerosols-total percentage (by mass) of flammable components: | Non-applicable * |

Other safety characteristics:

| | |
|---------------------------|------------------|
| Surface tension at 68 °F: | Non-applicable * |
| Refraction index: | Non-applicable * |

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

| Shock and friction | Contact with air | Increase in temperature | Sunlight | Humidity |
|--------------------|------------------|-------------------------|----------------|----------------|
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |

10.5 Incompatible materials:

| Acids | Water | Oxidising materials | Combustible materials | Others |
|--------------------|----------------|---------------------|-----------------------|-------------------------------|
| Avoid strong acids | Not applicable | Not applicable | Not applicable | Avoid alkalis or strong bases |

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, however it does contain substances classified as dangerous for this effect. For more information see section 3.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for skin contact. For more information see section 3.
- Contact with the eyes: Based on available data, the classification criteria are not met, however it does contain substances classified as dangerous for this effect. For more information see section 3.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Exposure to this product can cause cancer. For more specific information on the possible health effects see section 2.
IARC: Distillates (petroleum), solvent-refined heavy paraffinic (3); Distillates (petroleum), hydrotreated light paraffinic, < 3% DMSO (> 20.5 cSt 40°C) (3)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.
- Cutaneous: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous with sensitising effects. For more information see section 3.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

| Identification | Acute toxicity | | Genus |
|---|----------------|----------------|--------|
| | LD50 oral | LD50 dermal | |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based CAS: 72623-87-1 | 5100 mg/kg | 5100 mg/kg | Rat |
| | Non-applicable | Non-applicable | Rabbit |
| | Non-applicable | Non-applicable | |
| Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts CAS: 68649-42-3 | 3080 mg/kg | Non-applicable | Rat |
| | Non-applicable | Non-applicable | |
| | Non-applicable | Non-applicable | |
| Distillates (petroleum), solvent-refined heavy paraffinic CAS: 64741-88-4 | 5100 mg/kg | Non-applicable | Rat |
| | Non-applicable | Non-applicable | |
| | Non-applicable | Non-applicable | |

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SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

12.1 Ecotoxicity (aquatic and terrestrial, where available):

Acute toxicity:

| Identification | Concentration | | Species | Genus |
|---|---------------|------------------|-------------------------|------------|
| | LC50 | EC50 | | |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based CAS: 72623-87-1 | LC50 | 5000 mg/L (96 h) | Oncorhynchus mykiss | Fish |
| | EC50 | 1000 mg/L (48 h) | Daphnia magna | Crustacean |
| | EC50 | 1000 mg/L (96 h) | Scenedesmus subspicatus | Algae |
| Distillates (petroleum), solvent-refined heavy paraffinic CAS: 64741-88-4 | LC50 | 5000 mg/L (96 h) | Oncorhynchus mykiss | Fish |
| | EC50 | 1000 mg/L (48 h) | Daphnia magna | Crustacean |
| | EC50 | 1000 mg/L (96 h) | Scenedesmus subspicatus | Algae |

12.2 Persistence and degradability:

Not available

12.3 Bioaccumulative potential:

| Identification | Bioaccumulation potential | |
|---|---------------------------|---------|
| | BCF | Pow Log |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based CAS: 72623-87-1 | BCF | |
| | Pow Log | 3.9 |
| | Potential | |
| Distillates (petroleum), solvent-refined heavy paraffinic CAS: 64741-88-4 | BCF | |
| | Pow Log | 3.9 |
| | Potential | |

12.4 Mobility in soil:

Not available

12.5 Results of PBT and vPvB assessment:

Non-applicable

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations. In case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See epigraph 6.2.

Regulations related to waste management:

Legislation related to waste management:

40 CFR Part 261- IDENTIFICATION AND LISTING OF HAZARDOUS WASTE

SECTION 14: TRANSPORT INFORMATION

This product is not regulated for transport.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the product in question:

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SECTION 15: REGULATORY INFORMATION (continued)

SARA Title III - Toxic Chemical Release Inventory Reporting (Section 313): Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts

California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986): Non-applicable

The Toxic Substances Control Act (TSCA) : Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based ; Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts ; Distillates (petroleum), solvent-refined heavy paraffinic ; Sulfonic acids, petroleum, calcium salts (TBN < 300)

Massachusetts RTK - Substance List: Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts

New Jersey Worker and Community Right-to-Know Act: Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts

New York RTK - Substance list: Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts

Pennsylvania Worker and Community Right-to-Know Law: Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts

CANADA-Domestic Substances List (DSL): Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based ; Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts ; Distillates (petroleum), solvent-refined heavy paraffinic ; Sulfonic acids, petroleum, calcium salts (TBN < 300)

CANADA-Non-Domestic Substances List (NDSL): Non-applicable

NTP (National Toxicology Program): Non-applicable

Minnesota - Hazardous substances ERTK: Non-applicable

Rhode Island - Hazardous substances RTK: Non-applicable

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096): Non-applicable

Hazardous Air Pollutants (Clean Air Act): Non-applicable

Hazardous substances release notification under CERCLA sections 102-103 (40 CFR Part 302): Non-applicable

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:

Take into consideration other applicable federal, state, and local laws and local regulations.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Appendix d to §1910.1200 - Safety data sheets

Texts of the legislative phrases mentioned in section 2:

H350: May cause cancer.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

29 CFR 1910.1200:

Carc. 1B: H350 - May cause cancer.

Eye Irrit. 2A: H319 - Causes serious eye irritation.

Skin Irrit. 2: H315 - Causes skin irritation.

Skin Sens. 1B: H317 - May cause an allergic skin reaction.

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

Occupational Safety & Health Administration (OSHA).

Abbreviations and acronyms:

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

CL50: Lethal Concentration 50

EC50: Effective concentration 50

Log-POW: Octanol-water partition coefficient

Koc: Partition coefficient of organic carbon

IARC: International Agency for Research on Cancer

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Safety data sheet
according to 29 CFR 1910.1200

BRAVA MOTUS - SAE 10W-40 4T



Manufacturer Disclaimer: The information contained in this safety data sheet ("SDS") is based on sources, technical knowledge and current legislation. Furthermore, is based on data believed to be accurate; thus, the company does not assume any liability for its accuracy. The information provided herein cannot be considered a guarantee of the properties of this product and the same is simply a description of the security requirements. The use, occupational methodology and/or conditions for users of this product are not within our awareness or control. It is ultimately the responsibility of the user(s) to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information of this SDS only refers to this product, which should not be used for purposes other than those specified. Finally, the manner in which this product is used and whether there is any infringement of patents is the sole responsibility of the user(s).


END OF SAFETY DATA SHEET



SECTION 1: IDENTIFICATION

- 1.1 GHS Product identifier:** BRAVA MOTUS SAE 20W- - 50 4T
- Other means of identification:**
Non-applicable
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Uses advised against: All uses not specified in this section or in section 7.3
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Carr. 3 Km. 90.4 BO Aguacate
00767 Yabucoa - PR
Phone: 7872662103
lab@oleincorp.com
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Non-applicable

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Non-applicable
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Components:

- CONTINUED ON NEXT PAGE -



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| CAS: 64741-88-4 | Distillates (petroleum), solvent-refined heavy paraffinic Carc. 1B: H350 - Danger |  <10 % |
| CAS: 61789-86-4 | Sulfonic acids, petroleum, calcium salts (TBN < 300) Skin Sens. 1B: H317 - Warning |  <10 % |

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

SECTION 4: FIRST-AID MEASURES

4.1 Description of necessary measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

This product does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

By skin contact:

This product is not classified as hazardous when in contact with the skin. However, in case of skin contact it is recommended to remove contaminated clothes and shoes, rinse the skin or shower the person affected if necessary thoroughly with cold water and neutral soap. In case of serious reaction consult a doctor.

By eye contact:

Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

4.2 Most important symptoms/effects, acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

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

Non-applicable

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable (and unsuitable) extinguishing media:

Suitable extinguishing media:

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO₂).

Unsuitable extinguishing media:

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

5.2 Specific hazards arising from the chemical:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Special protective equipment and precautions for fire-fighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

- CONTINUED ON NEXT PAGE -



SECTION 5: FIRE-FIGHTING MEASURES (continued)

Additional provisions:

As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Only properly trained personnel should be involved in firefighting. Evacuate nonessential personnel from the fire area. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

For emergency responders:

See section 8.

6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

6.3 Methods and materials for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current standards 29 CFR 1910 Occupational Safety and Health Standards. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: 41 °F

Maximum Temp.: 86 °F

Maximum time: 12 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

- CONTINUED ON NEXT PAGE -



SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace:

Oils: PEL-TWA= 5mg/m³

8.2 Appropriate engineering controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protection Equipment. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation, the information on clothing performance must be combined with professional judgment, and a clear understanding of the clothing application, to provide the best protection to the worker. All chemical protective clothing use must be based on a hazard assessment to determine the risks for exposure to chemicals and other hazards. Conduct hazard assessments in accordance with 29 CFR 1910.132.

B.- Respiratory protection

| Pictogram | PPE | Remarks |
|---|-----------------------------------|--|
| <p>Mandatory respiratory tract protection</p> | Filter mask for gases and vapours | Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment. Use respirator in accordance with manufacturer's use limitations and OSHA standard 1910.134 (29CFR) |

C.- Specific protection for the hands

| Pictogram | PPE | Remarks |
|----------------------------------|---|--|
| <p>Mandatory hand protection</p> | NON-disposable chemical protective gloves | The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin. Use gloves in accordance with manufacturer's use limitations and OSHA standard 1910.138 (29CFR) |

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Ocular and facial protection

| Pictogram | PPE | Remarks |
|----------------------------------|-------------|---|
| <p>Mandatory face protection</p> | Face shield | Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. Use this PPE in accordance with manufacturer's use limitations and OSHA standard 1910.133 (29CFR) |

E.- Bodily protection

| Pictogram | PPE | Remarks |
|---|---|--|
| <p>Mandatory complete body protection</p> | Disposable clothing for protection against chemical risks | For professional use only. Clean periodically according to the manufacturer's instructions. |
| <p>Mandatory foot protection</p> | Safety footwear for protection against chemical risk | Replace boots at any sign of deterioration. Use foot protection in accordance with manufacturer's use limitations and OSHA standard 1910.136 (29CFR) |

F.- Additional emergency measures

| Emergency measure | Standards | Emergency measure | Standards |
|-------------------------|---|-------------------------|--|
| <p>Emergency shower</p> | ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011 | <p>Eyewash stations</p> | DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011 |

Environmental exposure controls:

- CONTINUED ON NEXT PAGE -



SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

National volatile organic compound emission standards (40 CFR Part 59):

| | |
|--------------------------------|-----------------------------|
| V.O.C. (Subpart C - Consumer): | 0 % weight |
| V.O.C. (Coatings) at 68 °F: | 0 kg/m ³ (0 g/L) |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

| | |
|--------------------------|------------------|
| Physical state at 68 °F: | Liquid |
| Appearance: | Not available |
| Color: | Not available |
| Odor: | Not available |
| Odour threshold: | Non-applicable * |

Volatility:

| | |
|--|------------------|
| Boiling point at atmospheric pressure: | 540 °F |
| Vapour pressure at 68 °F: | 5.89E-2 Pa |
| Vapour pressure at 122 °F: | 1.97 Pa (0 kPa) |
| Evaporation rate at 68 °F: | Non-applicable * |

Product description:

| | |
|--|--------------------------------------|
| Density at 68 °F: | 887.8 kg/m ³ |
| Relative density at 68 °F: | 0.888 |
| Dynamic viscosity at 68 °F: | Non-applicable * |
| Kinematic viscosity at 68 °F: | Non-applicable * |
| Kinematic viscosity at 104 °F: | Non-applicable * |
| Kinematic viscosity at 212 °F: | 18.8 mm ² /s (ASTM D-445) |
| Concentration: | Non-applicable * |
| pH: | Non-applicable * |
| Vapour density at 68 °F: | Non-applicable * |
| Partition coefficient n-octanol/water 68 °F: | Non-applicable * |
| Solubility in water at 68 °F: | Non-applicable * |
| Solubility properties: | Non-applicable * |
| Decomposition temperature: | Non-applicable * |
| Melting point/freezing point: | Non-applicable * |

Flammability:

| | |
|----------------------------|---------------------------|
| Flash Point: | Non Flammable (>199.4 °F) |
| Flammability (solid, gas): | Non-applicable * |
| Autoignition temperature: | 500 °F |
| Lower flammability limit: | Non-applicable * |
| Upper flammability limit: | Non-applicable * |

Particle characteristics:

| | |
|-----------------------------|----------------|
| Median equivalent diameter: | Non-applicable |
|-----------------------------|----------------|

9.2 Other information:

*Not relevant due to the nature of the product, not providing information property of its hazards.

- CONTINUED ON NEXT PAGE -



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Information with regard to physical hazard classes:

| | |
|--|------------------|
| Explosive properties: | Non-applicable * |
| Oxidising properties: | Non-applicable * |
| Corrosive to metals: | Non-applicable * |
| Heat of combustion: | Non-applicable * |
| Aerosols-total percentage (by mass) of flammable components: | Non-applicable * |

Other safety characteristics:

| | |
|---------------------------|------------------|
| Surface tension at 68 °F: | Non-applicable * |
| Refraction index: | Non-applicable * |

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

| Shock and friction | Contact with air | Increase in temperature | Sunlight | Humidity |
|--------------------|------------------|-------------------------|----------------|----------------|
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |

10.5 Incompatible materials:

| Acids | Water | Oxidising materials | Combustible materials | Others |
|--------------------|----------------|---------------------|-----------------------|-------------------------------|
| Avoid strong acids | Not applicable | Not applicable | Not applicable | Avoid alkalis or strong bases |

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, however it does contain substances classified as dangerous for this effect. For more information see section 3.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for skin contact. For more information see section 3.
- Contact with the eyes: Based on available data, the classification criteria are not met, however it does contain substances classified as dangerous for this effect. For more information see section 3.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Exposure to this product can cause cancer. For more specific information on the possible health effects see section 2.
IARC: Distillates (petroleum), solvent-refined heavy paraffinic (3); Distillates (petroleum), hydrotreated light paraffinic, < 3% DMSO (> 20.5 cSt 40°C) (3)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.
- Cutaneous: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous with sensitising effects. For more information see section 3.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

| Identification | Acute toxicity | | Genus |
|---|----------------|----------------|--------|
| | LD50 oral | LD50 dermal | |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based CAS: 72623-87-1 | 5100 mg/kg | 5100 mg/kg | Rat |
| | Non-applicable | Non-applicable | Rabbit |
| | Non-applicable | Non-applicable | |
| Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts CAS: 68649-42-3 | 3080 mg/kg | Non-applicable | Rat |
| | Non-applicable | Non-applicable | |
| | Non-applicable | Non-applicable | |
| Distillates (petroleum), solvent-refined heavy paraffinic CAS: 64741-88-4 | 5100 mg/kg | Non-applicable | Rat |
| | Non-applicable | Non-applicable | |
| | Non-applicable | Non-applicable | |

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SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

12.1 Ecotoxicity (aquatic and terrestrial, where available):

Acute toxicity:

| Identification | Concentration | | Species | Genus |
|---|---------------|------------------|-------------------------|------------|
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based CAS: 72623-87-1 | LC50 | 5000 mg/L (96 h) | Oncorhynchus mykiss | Fish |
| | EC50 | 1000 mg/L (48 h) | Daphnia magna | Crustacean |
| | EC50 | 1000 mg/L (96 h) | Scenedesmus subspicatus | Algae |
| Distillates (petroleum), solvent-refined heavy paraffinic CAS: 64741-88-4 | LC50 | 5000 mg/L (96 h) | Oncorhynchus mykiss | Fish |
| | EC50 | 1000 mg/L (48 h) | Daphnia magna | Crustacean |
| | EC50 | 1000 mg/L (96 h) | Scenedesmus subspicatus | Algae |

12.2 Persistence and degradability:

Not available

12.3 Bioaccumulative potential:

| Identification | Bioaccumulation potential | |
|---|---------------------------|-----|
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based CAS: 72623-87-1 | BCF | |
| | Pow Log | 3.9 |
| | Potential | |
| Distillates (petroleum), solvent-refined heavy paraffinic CAS: 64741-88-4 | BCF | |
| | Pow Log | 3.9 |
| | Potential | |

12.4 Mobility in soil:

Not available

12.5 Results of PBT and vPvB assessment:

Non-applicable

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations. In case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See epigraph 6.2.

Regulations related to waste management:

Legislation related to waste management:

40 CFR Part 261- IDENTIFICATION AND LISTING OF HAZARDOUS WASTE

SECTION 14: TRANSPORT INFORMATION

This product is not regulated for transport.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the product in question:

- CONTINUED ON NEXT PAGE -



SECTION 15: REGULATORY INFORMATION (continued)

SARA Title III - Toxic Chemical Release Inventory Reporting (Section 313): Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts

California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986): Non-applicable

The Toxic Substances Control Act (TSCA) : Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based ;

Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts ; Distillates (petroleum), solvent-refined heavy paraffinic ; Sulfonic acids, petroleum, calcium salts (TBN < 300)

Massachusetts RTK - Substance List: Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts

New Jersey Worker and Community Right-to-Know Act: Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts

New York RTK - Substance list: Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts

Pennsylvania Worker and Community Right-to-Know Law: Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts

CANADA-Domestic Substances List (DSL): Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based ; Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts ; Distillates (petroleum), solvent-refined heavy paraffinic ; Sulfonic acids, petroleum, calcium salts (TBN < 300)

CANADA-Non-Domestic Substances List (NDSL): Non-applicable

NTP (National Toxicology Program): Non-applicable

Minnesota - Hazardous substances ERTK: Non-applicable

Rhode Island - Hazardous substances RTK: Non-applicable

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096): Non-applicable

Hazardous Air Pollutants (Clean Air Act): Non-applicable

Hazardous substances release notification under CERCLA sections 102-103 (40 CFR Part 302): Non-applicable

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:

Take into consideration other applicable federal, state, and local laws and local regulations.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Appendix d to §1910.1200 - Safety data sheets

Texts of the legislative phrases mentioned in section 2:

H350: May cause cancer.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

29 CFR 1910.1200:

Carc. 1B: H350 - May cause cancer.

Eye Irrit. 2A: H319 - Causes serious eye irritation.

Skin Irrit. 2: H315 - Causes skin irritation.

Skin Sens. 1B: H317 - May cause an allergic skin reaction.

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

Occupational Safety & Health Administration (OSHA).

Abbreviations and acronyms:

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

CL50: Lethal Concentration 50

EC50: Effective concentration 50

Log-POW: Octanol-water partition coefficient

Koc: Partition coefficient of organic carbon

IARC: International Agency for Research on Cancer

- CONTINUED ON NEXT PAGE -



Safety data sheet
according to 29 CFR 1910.1200

BRAVA MOTUS SAE 20W- - 50 4T



Manufacturer Disclaimer: The information contained in this safety data sheet ("SDS") is based on sources, technical knowledge and current legislation. Furthermore, is based on data believed to be accurate; thus, the company does not assume any liability for its accuracy. The information provided herein cannot be considered a guarantee of the properties of this product and the same is simply a description of the security requirements. The use, occupational methodology and/or conditions for users of this product are not within our awareness or control. It is ultimately the responsibility of the user(s) to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information of this SDS only refers to this product, which should not be used for purposes other than those specified. Finally, the manner in which this product is used and whether there is any infringement of patents is the sole responsibility of the user(s).


END OF SAFETY DATA SHEET



SECTION 1: IDENTIFICATION

- 1.1 GHS Product identifier:** BRAVA MOTUS SYNTHETIC BLEND - SAE 20W-50 4T
- Other means of identification:**
Non-applicable
- 1.2 Recommended use of the chemical and restrictions on use:**
Relevant uses: Lubricant
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:**
OLEIN REFINERY CORP
Carr. 3 Km. 90.4 BO Aguacate
00767 Yabucoa - PR
Phone: 7872662103
lab@oleincorp.com
- 1.4 Emergency phone number:**

SECTION 2: HAZARD(S) IDENTIFICATION

- 2.1 Classification of the substance or mixture:**
29 CFR 1910.1200:
Classification of this product has been carried out in accordance with paragraph (d) of § 1910.1200.
Asp. Tox. 1: Aspiration hazard, Category 1, H304
Carc. 1B: Carcinogenicity, Category 1B, H350
- 2.2 Label elements:**
29 CFR 1910.1200:
Danger
- 
- Hazard statements:**
Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.
Carc. 1B: H350 - May cause cancer.
- Precautionary statements:**
P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P308+P313: IF exposed or concerned: Get medical advice/attention.
P331: Do NOT induce vomiting.
P501: Dispose of the contents/containers according to the local, state and federal regulations.
- Substances that contribute to the classification**
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Distillates (petroleum), hydrotreated heavy paraffinic , < 3 % IP 346, < 20.5 cSt @ 40°C; Distillates (petroleum), solvent-refined heavy paraffinic
- 2.3 Hazards not otherwise classified (HNOC):**
Non-applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1 Substances:**
Non-applicable
- 3.2 Mixtures:**
Chemical description: Oil/s






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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

Components:

Remaining components are non-hazardous and/or present at amounts below reportable limits. The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200. Therefore, in accordance with Appendix D to § 1910.1200, the product contains:

| Identification | Chemical name/Classification | Concentration |
|-----------------|--|--|
| CAS: 72623-87-1 | Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based Carc. 1B: H350 - Danger |  50 - <75 % |
| CAS: 64742-54-7 | Distillates (petroleum), hydrotreated heavy paraffinic, < 3 % IP 346, < 20.5 cSt @ 40°C Asp. Tox. 1: H304 - Danger |  10 - <25 % |
| CAS: 68649-42-3 | Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts Eye Irrit. 2A: H319; Skin Irrit. 2: H315 - Warning |  <10 % |
| CAS: 64741-88-4 | Distillates (petroleum), solvent-refined heavy paraffinic Carc. 1B: H350 - Danger |  <10 % |
| CAS: 61789-86-4 | Sulfonic acids, petroleum, calcium salts (TBN < 300) Skin Sens. 1B: H317 - Warning |  <10 % |

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

SECTION 4: FIRST-AID MEASURES

4.1 Description of necessary measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

This product does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

By skin contact:

This product is not classified as hazardous when in contact with the skin. However, in case of skin contact it is recommended to remove contaminated clothes and shoes, rinse the skin or shower the person affected if necessary thoroughly with cold water and neutral soap. In case of serious reaction consult a doctor.

By eye contact:

Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Request medical assistance immediately, showing the SDS of this product. Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. In the case of loss of consciousness do not administrate anything orally unless supervised by a doctor. Rinse out the mouth and throat, as they may have been affected during ingestion. Keep the person affected at rest.

4.2 Most important symptoms/effects, acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

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

Non-applicable

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable (and unsuitable) extinguishing media:

Suitable extinguishing media:

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO₂).

Unsuitable extinguishing media:

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

5.2 Specific hazards arising from the chemical:

- CONTINUED ON NEXT PAGE -



SECTION 5: FIRE-FIGHTING MEASURES (continued)

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Special protective equipment and precautions for fire-fighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

Additional provisions:

As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Only properly trained personnel should be involved in firefighting. Evacuate nonessential personnel from the fire area. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

For emergency responders:

See section 8.

6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

6.3 Methods and materials for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current standards 29 CFR 1910 Occupational Safety and Health Standards. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: 41 °F

Maximum Temp.: 86 °F

Maximum time: 12 Months

B.- General conditions for storage

- CONTINUED ON NEXT PAGE -



SECTION 7: HANDLING AND STORAGE (continued)

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace:


Oils: PEL-TWA= 5mg/m³

8.2 Appropriate engineering controls:


A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protection Equipment. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation, the information on clothing performance must be combined with professional judgment, and a clear understanding of the clothing application, to provide the best protection to the worker. All chemical protective clothing use must be based on a hazard assessment to determine the risks for exposure to chemicals and other hazards. Conduct hazard assessments in accordance with 29 CFR 1910.132.

B.- Respiratory protection


| Pictogram | PPE | Remarks |
|---|-----------------------------------|--|
|  Mandatory respiratory tract protection | Filter mask for gases and vapours | Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment. Use respirator in accordance with manufacturer's use limitations and OSHA standard 1910.134 (29CFR) |

C.- Specific protection for the hands



| Pictogram | PPE | Remarks |
|--|---|--|
|  Mandatory hand protection | NON-disposable chemical protective gloves | The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin. Use gloves in accordance with manufacturer's use limitations and OSHA standard 1910.138 (29CFR) |

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Ocular and facial protection

| Pictogram | PPE | Remarks |
|--|-------------|---|
|  Mandatory face protection | Face shield | Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. Use this PPE in accordance with manufacturer's use limitations and OSHA standard 1910.133 (29CFR) |

E.- Bodily protection



| Pictogram | PPE | Remarks |
|---|---|--|
|  Mandatory complete body protection | Disposable clothing for protection against chemical risks | For professional use only. Clean periodically according to the manufacturer's instructions. |
|  Mandatory foot protection | Safety footwear for protection against chemical risk | Replace boots at any sign of deterioration. Use foot protection in accordance with manufacturer's use limitations and OSHA standard 1910.136 (29CFR) |

- CONTINUED ON NEXT PAGE -



SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

F.- Additional emergency measures

| Emergency measure | Standards | Emergency measure | Standards |
|---|---|--|--|
|  Emergency shower | ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011 |  Eyewash stations | DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011 |

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

National volatile organic compound emission standards (40 CFR Part 59):

| | |
|--------------------------------|-----------------------------|
| V.O.C. (Subpart C - Consumer): | 0 % weight |
| V.O.C. (Coatings) at 68 °F: | 0 kg/m ³ (0 g/L) |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

| | |
|--------------------------|---|
| Physical state at 68 °F: | Liquid |
| Appearance: | Oily |
| Color: |  Amber |
| Odor: | Lubricant |
| Odour threshold: | Non-applicable * |

Volatility:

| | |
|--|------------------|
| Boiling point at atmospheric pressure: | 540 °F |
| Vapour pressure at 68 °F: | 5.89E-2 Pa |
| Vapour pressure at 122 °F: | 1.97 Pa (0 kPa) |
| Evaporation rate at 68 °F: | Non-applicable * |

Product description:

| | |
|--|--------------------------------------|
| Density at 68 °F: | 890.8 kg/m ³ |
| Relative density at 68 °F: | 0.891 |
| Dynamic viscosity at 68 °F: | Non-applicable * |
| Kinematic viscosity at 68 °F: | Non-applicable * |
| Kinematic viscosity at 104 °F: | <20.5 mm ² /s |
| Kinematic viscosity at 212 °F: | 19.1 mm ² /s (ASTM D-445) |
| Concentration: | Non-applicable * |
| pH: | Non-applicable * |
| Vapour density at 68 °F: | Non-applicable * |
| Partition coefficient n-octanol/water 68 °F: | Non-applicable * |
| Solubility in water at 68 °F: | Non-applicable * |
| Solubility properties: | Non-applicable * |
| Decomposition temperature: | Non-applicable * |
| Melting point/freezing point: | Non-applicable * |

Flammability:

| | |
|--------------|---------------------------|
| Flash Point: | Non Flammable (>199.4 °F) |
|--------------|---------------------------|

*Not relevant due to the nature of the product, not providing information property of its hazards.

- CONTINUED ON NEXT PAGE -



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

| | |
|----------------------------|------------------|
| Flammability (solid, gas): | Non-applicable * |
| Autoignition temperature: | 500 °F |
| Lower flammability limit: | Non-applicable * |
| Upper flammability limit: | Non-applicable * |

Particle characteristics:

| | |
|-----------------------------|----------------|
| Median equivalent diameter: | Non-applicable |
|-----------------------------|----------------|

9.2 Other information:

Information with regard to physical hazard classes:

| | |
|--|------------------|
| Explosive properties: | Non-applicable * |
| Oxidising properties: | Non-applicable * |
| Corrosive to metals: | Non-applicable * |
| Heat of combustion: | Non-applicable * |
| Aerosols-total percentage (by mass) of flammable components: | Non-applicable * |

Other safety characteristics:

| | |
|---------------------------|------------------|
| Surface tension at 68 °F: | Non-applicable * |
| Refraction index: | Non-applicable * |

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

| Shock and friction | Contact with air | Increase in temperature | Sunlight | Humidity |
|--------------------|------------------|-------------------------|----------------|----------------|
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |

10.5 Incompatible materials:

| Acids | Water | Oxidising materials | Combustible materials | Others |
|--------------------|----------------|---------------------|-----------------------|-------------------------------|
| Avoid strong acids | Not applicable | Not applicable | Not applicable | Avoid alkalis or strong bases |

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

A- Ingestion (acute effect):

- CONTINUED ON NEXT PAGE -



SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, however it does contain substances classified as dangerous for this effect. For more information see section 3.
- B- Inhalation (acute effect):
 - Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for inhalation. For more information see section 3.
 - Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- C- Contact with the skin and the eyes (acute effect):
 - Contact with the skin: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for skin contact. For more information see section 3.
 - Contact with the eyes: Based on available data, the classification criteria are not met, however it does contain substances classified as dangerous for this effect. For more information see section 3.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
 - Carcinogenicity: Exposure to this product can cause cancer. For more specific information on the possible health effects see section 2.
IARC: Distillates (petroleum), hydrotreated heavy paraffinic , < 3 % IP 346, < 20.5 cSt @ 40°C (3); Distillates (petroleum), solvent-refined heavy paraffinic (3); Distillates (petroleum), clay-treated paraffinic (3); Distillates (petroleum), hydrotreated light paraffinic, < 3% DMSO (> 20.5 cSt 40°C) (3)
 - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
 - Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- E- Sensitizing effects:
 - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.
 - Cutaneous: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous with sensitising effects. For more information see section 3.
- F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- G- Specific target organ toxicity (STOT)-repeated exposure:
 - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
 - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- H- Aspiration hazard:

The consumption of a considerable dose can cause pulmonary damage.

Other information:

Non-applicable

Specific toxicology information on the substances:

| Identification | Acute toxicity | | Genus |
|---|----------------|----------------|--------|
| | LD50 oral | LD50 dermal | |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based CAS: 72623-87-1 | 5100 mg/kg | 5100 mg/kg | Rat |
| | Non-applicable | Non-applicable | Rabbit |
| | Non-applicable | Non-applicable | |
| Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts CAS: 68649-42-3 | 3080 mg/kg | Non-applicable | Rat |
| | Non-applicable | Non-applicable | |
| | Non-applicable | Non-applicable | |
| Distillates (petroleum), solvent-refined heavy paraffinic CAS: 64741-88-4 | 5100 mg/kg | Non-applicable | Rat |
| | Non-applicable | Non-applicable | |
| | Non-applicable | Non-applicable | |

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SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

12.1 Ecotoxicity (aquatic and terrestrial, where available):

Acute toxicity:

| Identification | Concentration | | Species | Genus |
|---|---------------|------------------|-------------------------|------------|
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based CAS: 72623-87-1 | LC50 | 5000 mg/L (96 h) | Oncorhynchus mykiss | Fish |
| | EC50 | 1000 mg/L (48 h) | Daphnia magna | Crustacean |
| | EC50 | 1000 mg/L (96 h) | Scenedesmus subspicatus | Algae |
| Distillates (petroleum), solvent-refined heavy paraffinic CAS: 64741-88-4 | LC50 | 5000 mg/L (96 h) | Oncorhynchus mykiss | Fish |
| | EC50 | 1000 mg/L (48 h) | Daphnia magna | Crustacean |
| | EC50 | 1000 mg/L (96 h) | Scenedesmus subspicatus | Algae |

12.2 Persistence and degradability:

Not available

12.3 Bioaccumulative potential:

| Identification | Bioaccumulation potential | |
|---|---------------------------|-----|
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based CAS: 72623-87-1 | BCF | |
| | Pow Log | 3.9 |
| | Potential | |
| Distillates (petroleum), solvent-refined heavy paraffinic CAS: 64741-88-4 | BCF | |
| | Pow Log | 3.9 |
| | Potential | |

12.4 Mobility in soil:

Not available

12.5 Results of PBT and vPvB assessment:

Non-applicable

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations. In case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See epigraph 6.2.

Regulations related to waste management:

Legislation related to waste management:

40 CFR Part 261- IDENTIFICATION AND LISTING OF HAZARDOUS WASTE

SECTION 14: TRANSPORT INFORMATION

This product is not regulated for transport.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the product in question:

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SECTION 15: REGULATORY INFORMATION (continued)

SARA Title III - Toxic Chemical Release Inventory Reporting (Section 313): Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts

California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986): Non-applicable

The Toxic Substances Control Act (TSCA) : Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based ; Distillates (petroleum), hydrotreated heavy paraffinic , < 3 % IP 346, < 20.5 cSt @ 40°C ; Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts ; Distillates (petroleum), solvent-refined heavy paraffinic ; Sulfonic acids, petroleum, calcium salts (TBN < 300)

Massachusetts RTK - Substance List: Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts

New Jersey Worker and Community Right-to-Know Act: Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts

New York RTK - Substance list: Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts

Pennsylvania Worker and Community Right-to-Know Law: Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts

CANADA-Domestic Substances List (DSL): Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based ; Distillates (petroleum), hydrotreated heavy paraffinic , < 3 % IP 346, < 20.5 cSt @ 40°C ; Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts ; Distillates (petroleum), solvent-refined heavy paraffinic ; Sulfonic acids, petroleum, calcium salts (TBN < 300)

CANADA-Non-Domestic Substances List (NDSL): Non-applicable

NTP (National Toxicology Program): Non-applicable

Minnesota - Hazardous substances ERTK: Non-applicable

Rhode Island - Hazardous substances RTK: Non-applicable

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096): Non-applicable

Hazardous Air Pollutants (Clean Air Act): Non-applicable

Hazardous substances release notification under CERCLA sections 102-103 (40 CFR Part 302): Non-applicable

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:

Take into consideration other applicable federal, state, and local laws and local regulations.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Appendix d to §1910.1200 - Safety data sheets

Texts of the legislative phrases mentioned in section 2:

H350: May cause cancer.

H304: May be fatal if swallowed and enters airways.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

29 CFR 1910.1200:

Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.

Carc. 1B: H350 - May cause cancer.

Eye Irrit. 2A: H319 - Causes serious eye irritation.

Skin Irrit. 2: H315 - Causes skin irritation.

Skin Sens. 1B: H317 - May cause an allergic skin reaction.

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

Occupational Safety & Health Administration (OSHA).

Abbreviations and acronyms:

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SECTION 16: OTHER INFORMATION (continued)

IMDG: International maritime dangerous goods code
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
COD: Chemical Oxygen Demand
BOD5: 5-day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
CL50: Lethal Concentration 50
EC50: Effective concentration 50
Log-POW: Octanol-water partition coefficient
Koc: Partition coefficient of organic carbon
IARC: International Agency for Research on Cancer

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END OF SAFETY DATA SHEET