

SAFETY DATA SHEET

**51392****XTAR 5W40 505.01**

Section 1. Identification

Product identifier	: XTAR 5W40 505.01
Product code	: 51392
Other means of identification	: Product formulated with lubricating bases and high quality additives.
Product type	: Liquid.

Recommended use of the chemical and restrictions on use

Specific uses

Motor oil for light vehicles.

Details of the supplier of the safety data sheet

Supplier/Manufacturer, Distributor or Importer	: Moeve Client Solutions, S.A.U. Paseo de la Castellana 259 A 28046 Madrid - España
Email	: tuteladeproducto@moeveglobal.com / productstewardship@moeveglobal.com
Telephone number	: +34 913 376 000
Hours of operation	: 07:30 - 19:30 (CET)

Emergency telephone number

Supplier/Manufacturer, Distributor or Importer

Telephone number	Hours of operation	: 24/7
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Europe: English, Albanian, Bosnian, Bulgarian, Croatian, Czech, Danish, Dutch, Finnish, French, German, Greek, Hungarian, Italian, Latvian, Lithuanian, Norwegian, Polish, Portuguese, Romanian, Russian, Serbian, Slovak, Spanish, Swedish, Turkish, Ukrainian.
+44 1235 239670

Europe: English
+44 1865 407333

Czech Republic: English, Czech
+420 228 882 830

Denmark: English, Danish
+45 8988 2286

Finland: English, Finnish
+358 9 7479 0199

France: English, French
+33 1 72 11 00 03

Germany: English, German
+49 89 220 61012

Germany: English, German
(toll-free, Germany only)
0800 000 7801

Greece: English, Greek
+30 21 1198 3182

Italy: English, Italian

Middle East/Africa: English, Arabic, French, Portuguese, Farsi
+44 1235 239671

Africa/South Africa: English
+27 21 300 2732

Americas: English, Spanish, French, Portuguese
+1 215 207 0061

Americas: English
+1 202 464 2554

United States: English, French, Spanish (toll-free, US only)
+1 866 928 0789

Mexico: English, Spanish
+52 55 5004 8763

Argentina: English, Spanish
+54 11 5984 3690

Brazil: Portuguese, Spanish, English
+55 11 3197 5891

Canada: English, French, (toll-free, Canada only)
+1 800 579 7421

Chile: English, Spanish
+56 2 2582 9336

Bangladesh: English, Bengali
+65 3158 1200

China: English, Mandarin
(toll-free, China only)
400 120 6011

China (Mainland): English, Mandarin
0532 8388 9090

India: English, Hindi
(toll-free, India only)
000 800 100 7479

India, Singapore: English, Hindi
+65 3158 1198

Indonesia: English, Indonesian
(toll-free, Indonesia only)
007 803 011 0293

Korea: English, Korean
+65 3158 1285

Malaysia: English, Malaysian
+60 3 6207 4347

Pakistan: English, Urdu
+65 3158 1329

Philippines: English, Tagalog
+63 2 8231 2149

Sri Lanka: English, Sinhalese
+65 3158 1195

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Section 1. Identification

(toll-free, Italy only) 800 699 792	Colombia: English, Spanish +57 601 508 7337	South Korea: English, Korean +82 2 3479 8401
Netherlands: English, Dutch +31 10 713 8195	Asia-Pacific: English +65 3165 2217	Taiwan: English, Mandarin +886 2 8793 3212
Norway: English, Norwegian +47 2103 4452	Australia: English (toll-free, Australia only) 1800 074 234	Thailand: English, Thai (toll-free, Thailand only) 001 800 120 666 751
Poland: English, Polish +48 22 307 3690	Australia: English +61 2 8014 4558	Vietnam: English, Vietnamese +84 28 4458 2388
Portugal: English, Portuguese +351 30880 4750	New Zealand: English (toll-free, New Zealand only) 0800 446 881	
Spain: English, Spanish +34 91 114 2520	New Zealand: English +64 9 929 1483	
Sweden: English, Swedish +46 8 566 42573	Asia-Pacific: English, Bengali, Cantonese, Indonesian, Hindi, Japanese, Korean, Malay, Mandarin, Sinhalese, Urdu, Tagalog, Thai, Vietnamese +65 3158 1074	
Turkey: English, Turkish (toll-free, Turkey only) 0800 621 2139		

Section 2. Hazard identification

Classification of the substance or mixture : Not classified.

GHS label elements

Signal word	: No signal word.
Hazard statements	: No known significant effects or critical hazards.
Precautionary statements	
General	: P103 - Read carefully and follow all instructions. P102 - Keep out of reach of children. P101 - If medical advice is needed, have product container or label at hand.
Prevention	: Not applicable.
Response	: Not applicable.
Storage	: Not applicable.
Disposal	: Not applicable.

Other hazards which do not result in classification : None known.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of identification	: Product formulated with lubricating bases and high quality additives.

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Section 3. Composition/information on ingredients

Ingredient name	%	Identifiers
Distillates (petroleum), hydrotreated heavy paraffinic	≥50 - ≤75	CAS: 64742-54-7 EC: 265-157-1
Distillates (petroleum), hydrotreated heavy paraffinic	≥10 - ≤25	CAS: 64742-54-7 EC: 265-157-1
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	≤10	CAS: 72623-87-1 EC: 276-738-4
Distillates (petroleum), solvent-dewaxed light paraffinic	≤5	CAS: 64742-56-9 EC: 265-159-2
Distillates (petroleum), hydrotreated light paraffinic	≤3	CAS: 64742-55-8 EC: 265-158-7
Distillates (petroleum), hydrotreated heavy paraffinic	≤3	CAS: 64742-54-7 EC: 265-157-1
Distillates (petroleum), solvent-dewaxed heavy paraffinic	≤3	CAS: 64742-65-0 EC: 265-169-7
Distillates (petroleum), hydrotreated heavy paraffinic	≤3	CAS: 64742-54-7 EC: 265-157-1
Distillates (petroleum), solvent-dewaxed heavy paraffinic	≤3	CAS: 64742-65-0 EC: 265-169-7
bis(nonylphenyl)amine	≤3	CAS: 36878-20-3 EC: 701-385-4
Distillates (petroleum), hydrotreated light	≤3	CAS: 64742-47-8 EC: 265-149-8
Phenol, 2 or 4-C14-18 (even numbered) sec-alkyl derivs.	≤3	-
zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)	≤3	CAS: 93819-94-4 EC: 298-577-9
C14-16-18 Alkyl phenol	≤3	CAS: 1190625-94-5 EC: 931-468-2
bis(ditiofosfato) de cinc, bis[O-(6-metilheptilo)] y bis[O(sec-butilo)]	≤1	EC: 298-577-9

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

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

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Section 4. First aid measures

- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. 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.
- Skin contact** : Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : No specific data.
- Ingestion** : No specific data.

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

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

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst.

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
sulfur oxides
phosphorus oxides
metal oxide/oxides

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Section 5. Fire-fighting measures

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- For non-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. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. 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).

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.
- Large spill** : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. 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.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8).
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. 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. 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. See Section 10 for incompatible materials before handling or use.

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Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Distillates (petroleum), hydrotreated heavy paraffinic	ACGIH TLV (United States, 1/2024) [Mineral Oil, pure, highly and severely refined] A4. TWA 8 hours: 5 mg/m³. Form: Inhalable fraction.
Distillates (petroleum), hydrotreated heavy paraffinic	ACGIH TLV (United States, 1/2024) [Mineral Oil, pure, highly and severely refined] A4. TWA 8 hours: 5 mg/m³. Form: Inhalable fraction.
Distillates (petroleum), solvent-dewaxed light paraffinic	ACGIH TLV (United States, 1/2024) [Mineral Oil, pure, highly and severely refined] A4. TWA 8 hours: 5 mg/m³. Form: Inhalable fraction.
Distillates (petroleum), hydrotreated light paraffinic	ACGIH TLV (United States, 1/2024) [Mineral Oil, pure, highly and severely refined] A4. TWA 8 hours: 5 mg/m³. Form: Inhalable fraction.
Distillates (petroleum), hydrotreated heavy paraffinic	ACGIH TLV (United States, 1/2024) [Mineral Oil, pure, highly and severely refined] A4. TWA 8 hours: 5 mg/m³. Form: Inhalable fraction.
Distillates (petroleum), solvent-dewaxed heavy paraffinic	ACGIH TLV (United States, 1/2024) [Mineral Oil, pure, highly and severely refined] A4. TWA 8 hours: 5 mg/m³. Form: Inhalable fraction.
Distillates (petroleum), hydrotreated heavy paraffinic	ACGIH TLV (United States, 1/2024) [Mineral Oil, pure, highly and severely refined] A4. TWA 8 hours: 5 mg/m³. Form: Inhalable fraction.
Distillates (petroleum), solvent-dewaxed heavy paraffinic	ACGIH TLV (United States, 1/2024) [Mineral Oil, pure, highly and severely refined] A4. TWA 8 hours: 5 mg/m³. Form: Inhalable fraction.
Distillates (petroleum), hydrotreated light	ACGIH TLV (United States, 1/2024) [Kerosene] A3. Absorbed through skin. TWA 8 hours: 200 mg/m³ (as total hydrocarbon vapor).

Biological exposure indices

No exposure indices known.

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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Section 8. Exposure controls/personal protection

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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. Recommended: Goggles, face shield or other full-face protection should be worn if there is a risk of direct exposure to aerosols or splashes or when material is handled hot.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection : 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. Recommended: Personnel should wear protective clothing. Chemical-resistant gloves.

Other skin protection : The proper footwear and any other necessary cutaneous protection measure should be chosen depending on the task that is carried out and the risks involved. Such measures must be approved by a specialist before proceeding to manipulation. Recommended: Suitable protective footwear.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: In case of insufficient ventilation, wear suitable respiratory equipment.

Section 9. Physical and chemical properties and safety characteristics

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

Appearance

Physical state : Liquid.
Color : ASTM L 3.0
Odor : Characteristic.
Odor threshold : Not available.
pH : Not applicable.
Melting point/freezing point : -36°C (-32,8°F) [ASTM D 5949]
Initial boiling point and boiling range : >316°C (>600,8°F)
Flash point : Open cup: 234°C (453,2°F)

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Section 9. Physical and chemical properties and safety characteristics

Evaporation rate	: Not available.
Flammability	: May burn with prolonged exposure to flames or high temperatures.
Lower and upper explosion limit/flammability limit	: * Not relevant due to the nature of the product, not providing information characteristic of its hazard.
Vapor pressure	: <0,013 kPa (<0,1 mm Hg)
Relative vapor density	: Not available.
Relative density	: 0,85524
Density	: 0,8551 g/cm ³ [15°C (59°F)]
Solubility(ies)	:

Media	Result
cold water	Not soluble
hot water	Not soluble

Solubility in water	: 0 g/l
Partition coefficient: n-octanol/water	: Not applicable.
Auto-ignition temperature	: * Not relevant due to the nature of the product, not providing information characteristic of its hazard.
Decomposition temperature	: Not available.
Viscosity	: Dynamic (room temperature): Not available. Kinematic (room temperature): 14,25 mm ² /s (14,25 cSt) Kinematic (40°C (104°F)): 77,09 mm ² /s (77,09 cSt)

Particle characteristics

Median particle size	: Not applicable.
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Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result
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Section 11. Toxicological information

Lubricating oils (petroleum), C20-50,
hydrotreated neutral oil-based

Rat - Oral - LD50

>5000 mg/kg

Rat - Dermal - LD50

>2000 mg/kg

Rat - Inhalation - LC50 Dusts and mists

5,53 mg/l [4 hours]

Rabbit - Dermal - LD50

>5000 mg/kg

Rat - Oral - LD50

>5000 mg/kg

Rat - Inhalation - LC50 Dusts and mists

5530 mg/m³ [4 hours]

EU

Rat - Oral - LD50

>5000 mg/kg

Rabbit - Dermal - LD50

>5000 mg/kg

Rat - Inhalation - LC50 Dusts and mists

5 mg/l [4 hours]

Rabbit - Dermal - LD50

>5000 mg/kg

Rat - Oral - LD50

>5000 mg/kg

Rabbit - Dermal - LD50

>5000 mg/kg

Rat - Oral - LD50

>5000 mg/kg

Rat - Inhalation - LC50 Dusts and mists

>5 mg/l [4 hours]

Distillates (petroleum), solvent-dewaxed light
paraffinic

Distillates (petroleum), hydrotreated light
paraffinic

Distillates (petroleum), hydrotreated heavy
paraffinic

Distillates (petroleum), solvent-dewaxed
heavy paraffinic

Distillates (petroleum), solvent-dewaxed
heavy paraffinic

Conclusion/Summary [Product]

: Based on available data, the classification criteria are not met.

Ingredient name

Lubricating oils (petroleum), C20-50,
hydrotreated neutral oil-based

Conclusion/Summary

Not classified.

Skin corrosion/irritation

Not available.

Conclusion/Summary [Product]

: Based on available data, the classification criteria are not met.

Ingredient name

Lubricating oils (petroleum), C20-50,
hydrotreated neutral oil-based

Conclusion/Summary

Repeated or prolonged contact with irritants may cause
dermatitis.

Serious eye damage/eye irritation

Not available.

Conclusion/Summary [Product]

: Based on available data, the classification criteria are not met.

Ingredient name

Lubricating oils (petroleum), C20-50,
hydrotreated neutral oil-based

Conclusion/Summary

Vapor is strongly irritating to the eyes and respiratory system.

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Section 11. Toxicological information

Respiratory corrosion/irritation

Not available.

Conclusion/Summary [Product] : Based on available data, the classification criteria are not met.

Respiratory or skin sensitization

Not available.

Skin

Conclusion/Summary [Product] : Based on available data, the classification criteria are not met.

Ingredient name

Lubricating oils (petroleum), C20-50,
hydrotreated neutral oil-based

Conclusion/Summary

Not sensitizing

Respiratory

Conclusion/Summary [Product] : Based on available data, the classification criteria are not met.

Ingredient name

Lubricating oils (petroleum), C20-50,
hydrotreated neutral oil-based

Conclusion/Summary

Not sensitizing

Germ cell mutagenicity

Not available.

Conclusion/Summary [Product] : Based on available data, the classification criteria are not met.

Ingredient name

Lubricating oils (petroleum), C20-50,
hydrotreated neutral oil-based

Conclusion/Summary

Not classified.

Carcinogenicity

Not available.

Conclusion/Summary [Product] : The lubricant base contains less than 3% of PCA's (DMSO extract as measured by IP 346).

Ingredient name

Distillates (petroleum), hydrotreated heavy
paraffinic
Distillates (petroleum), hydrotreated heavy
paraffinic
Lubricating oils (petroleum), C20-50,
hydrotreated neutral oil-based

Conclusion/Summary

MI (mutagenicity index) less than 0.4 are not classified as
carcinogenic according to CLP regulations (EC) 1272/2008
MI (mutagenicity index) less than 0.4 are not classified as
carcinogenic according to CLP regulations (EC) 1272/2008
Not classified.

Reproductive toxicity

Not available.

Conclusion/Summary [Product] : Based on available data, the classification criteria are not met.

Ingredient name**Conclusion/Summary**

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Section 11. Toxicological information

Lubricating oils (petroleum), C20-50,
hydrotreated neutral oil-based

No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Product/ingredient name

Phenol, 2 or 4-C14-18 (even numbered) sec-alkyl derivs.

Result

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

Aspiration hazard

Product/ingredient name

Distillates (petroleum), hydrotreated heavy paraffinic

Result

ASPIRATION HAZARD - Category 1

Lubricating oils (petroleum), C20-50,
hydrotreated neutral oil-based

ASPIRATION HAZARD - Category 1

Distillates (petroleum), solvent-dewaxed light paraffinic

ASPIRATION HAZARD - Category 1

Distillates (petroleum), hydrotreated heavy paraffinic

ASPIRATION HAZARD - Category 1

Distillates (petroleum), hydrotreated heavy paraffinic

ASPIRATION HAZARD - Category 1

Distillates (petroleum), solvent-dewaxed heavy paraffinic

ASPIRATION HAZARD - Category 1

Distillates (petroleum), hydrotreated light

ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

Not available.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.**Inhalation** : No known significant effects or critical hazards.**Skin contact** : No known significant effects or critical hazards.**Ingestion** : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.**Inhalation** : No specific data.**Skin contact** : 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

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Section 11. Toxicological information

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary [Product] : Based on available data, the classification criteria are not met.

Ingredient name

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based

Conclusion/Summary

Not classified.

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

Numerical measures of toxicityAcute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	N/A	2500	N/A	N/A	5,53
Distillates (petroleum), hydrotreated light paraffinic	N/A	N/A	N/A	N/A	5,53

Section 12. Ecological information

Toxicity**Product/ingredient name**

Distillates (petroleum), solvent-dewaxed heavy paraffinic

Distillates (petroleum), hydrotreated light

zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)

Result**Chronic - NOEL - Marine water**

Daphnia - Trout

10 mg/l [21 days]

Acute - LC50 - Fresh water

Fish - Bluegill - *Lepomis macrochirus*

Size: 35 to 75 mm

2200 µg/l [4 days]

Effect: Mortality

Acute - LC50

OECD TG 203

Fish

4,5 mg/l [96 hours]

Acute - EC50

OECD TG202

Daphnia

5,4 mg/l [48 hours]

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Section 12. Ecological information

Acute - EC50
 OECD TG201
 Algae
 2,1 mg/l [96 hours]

Conclusion/Summary [Product] : Not available.

Persistence and degradability

Product/ingredient name	Result
zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)	1,5% [28 days]
bis(ditiofosfato) de cinc, bis[O-(6-metilheptilo)] y bis[O(sec-butilo)]	1,5% [28 days] - Not readily

Conclusion/Summary [Product] : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Distillates (petroleum), hydrotreated heavy paraffinic	-	-	Inherent
zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)	-	-	Not readily
bis(ditiofosfato) de cinc, bis[O-(6-metilheptilo)] y bis[O(sec-butilo)]	-	-	Not readily

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Distillates (petroleum), hydrotreated heavy paraffinic	>7	-	High
bis(nonylphenyl)amine	3.64 to 7.02	1730 [METI guideline (concentration test on chemical substances in fish)]	High
zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)	0.59 to 1.2	-	Low

Mobility in soil

Soil/Water partition coefficient : Not available.

Other adverse effects

No known significant effects or critical hazards.

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Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. 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. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	UN	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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.

SAFETY DATA SHEET



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Section 15. Regulatory information

Inventory list

Australia	: Not determined.
Canada	: Not determined.
China	: Not determined.
Eurasian Economic Union	: Russian Federation inventory : Not determined.
Japan	: Japan inventory (CSCL) : Not determined. Japan inventory (ISHL) : Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: Not determined.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: Not determined.
Viet Nam	: Not determined.

Section 16. Other information

History

Date of printing	: 17/08/2026
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Date of previous issue	: 22/06/2026
Version	: 6

Key to abbreviations

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
IMO = International Maritime Organization
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
N/A = Not available
SGG = Segregation Group
UN = United Nations

Procedure used to derive the classification

Not classified.

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.