

SAFETY DATA SHEET

Mobile 1 10W-30

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

1.1 Product identifier

Product name :  Mobile 1 10W-30
Part no. : G6600-85001

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

Identified uses : Reagents and Standards for Analytical Chemistry Laboratory Use
Uses advised against : None known.

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Deutschland GmbH
Hewlett-Packard-Str. 8
76337 Waldbronn
Germany
0800 603 1000

e-mail address of person responsible for this SDS : pdl-msds_author@agilent.com

1.4 Emergency telephone number


Emergency telephone number (with hours of operation) : CHEMTREC®: +353 1 901 4670

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

 H361f	REPRODUCTIVE TOXICITY	Category 2
H412	LONG-TERM (CHRONIC) AQUATIC HAZARD	Category 3

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Ingredients of unknown toxicity : Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 10 - 30%
Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 1 - 10%

See Section 16 for the full text of the H statements declared above.


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

2.2 Label elements

Hazard pictograms :



Signal word :  Warning

Hazard statements :  H361f - Suspected of damaging fertility.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

Mobile 1 10W-30

SECTION 2: Hazards identification

- Prevention

P201 - Obtain special instructions before use.
P280 - Wear protective gloves, protective clothing and eye or face protection.
P273 - Avoid release to the environment.
- Response

P308 + P313 - IF exposed or concerned: Get medical advice or attention.
- Storage

Not applicable.
- Disposal

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Hazardous ingredients

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene
- Supplemental label elements

Contains ORGANO MOLY-SULFUR COMPLEX. May produce an allergic reaction.
- Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not applicable.
- Special packaging requirements
- Tactile warning of danger

Not applicable.

2.3 Other hazards

- Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
- Other hazards which do not result in classification

None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	EC: 270-128-1 CAS: 68411-46-1	≤10	Repr. 2, H361f Aquatic Chronic 3, H412	-	[1]
Distillates (petroleum), solvent-dewaxed heavy paraffinic	EC: 265-169-7 CAS: 64742-65-0	≤10	Asp. Tox. 1, H304	-	[1] [2]
1-Decene, tetramer, mixed with 1-decene trimer, hydrogenated	CAS: 68649-12-7	≤10	Asp. Tox. 1, H304 Aquatic Chronic 4, H413	-	[1]
zinc O,O,O',O'-tetrakis (1,3-dimethylbutyl) bis (phosphorodithioate)	EC: 218-679-9 CAS: 2215-35-2	≤3	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411	Eye Dam. 1, H318: C ≥ 10%	[1]
Phosphorodithioic acid, mixed O,O-bis (1,3-dimethylbutyl and iso-Pr) esters, zinc salts	EC: 283-392-8 CAS: 84605-29-8	≤3	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411	Skin Irrit. 2, H315: C ≥ 50% Eye Dam. 1, H318: C ≥ 50%	[1]
ORGANO MOLY-SULFUR	-	<1	Skin Irrit. 2, H315	-	[1]

SECTION 3: Composition/information on ingredients

COMPLEX			Skin Sens. 1, H317 Aquatic Chronic 3, H412 See Section 16 for the full text of the H statements declared above.		
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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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

SECTION 4: First aid measures**4.1 Description of 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. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. 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** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayedOver-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : Adverse symptoms may include the following:
reduced foetal weight
increase in foetal deaths
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:
reduced foetal weight
increase in foetal deaths
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:
reduced foetal weight
increase in foetal deaths
skeletal malformations

SECTION 4: First aid measures

4.3 Indication of any immediate medical attention and special treatment needed

- 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.

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous combustion products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
sulfur oxides
phosphorus oxides
metal oxide/oxides

5.3 Advice for firefighters

- Special precautions 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
- Additional information** : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

SECTION 6: Accidental release measures

6.1 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 spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised 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".

6.2 Environmental precautions

- : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

6.3 Methods and material for containment and cleaning up

SECTION 6: Accidental release measures

- Methods for cleaning up** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- 6.4 Reference to other sections** : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Avoid breathing vapour or mist. Avoid release to the environment. Avoid contact with eyes, skin and clothing. Do not ingest. Empty containers retain product residue and can be hazardous. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Do not reuse container. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid exposure during pregnancy.
- 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.

7.2 Conditions for safe storage, including any incompatibilities

- Storage** : 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. Store locked up. 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

- Recommendations** : Industrial applications, Professional applications.
- Industrial sector specific solutions** : Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
Distillates (petroleum), solvent-dewaxed heavy paraffinic	NAOSH (Ireland, 4/2024) [Mineral oil, pure, highly & severely refined] Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV 8 hours: 5 ppm. Form: inhalable dust.

Biological exposure indices

No exposure indices known.

SECTION 8: Exposure controls/personal protection

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Result
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	DNEL - General population - Long term - Oral 0.05 mg/kg bw/day DNEL - General population - Long term - Inhalation 0.08 mg/m ³ DNEL - General population - Long term - Dermal 0.22 mg/kg bw/day DNEL - Workers - Long term - Inhalation 0.31 mg/m ³ DNEL - Workers - Long term - Dermal 0.44 mg/kg bw/day
Distillates (petroleum), solvent-dewaxed heavy paraffinic	DNEL - General population - Long term - Oral 0.74 mg/kg bw/day DNEL - Workers - Long term - Dermal 0.97 mg/kg bw/day DNEL - General population - Long term - Inhalation 1.19 mg/m ³ DNEL - Workers - Long term - Inhalation 2.73 mg/m ³
zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)	DNEL - General population - Long term - Oral 0.24 mg/kg bw/day DNEL - General population - Long term - Inhalation 2.13 mg/m ³ DNEL - General population - Long term - Dermal 6.1 mg/kg bw/day DNEL - Workers - Long term - Inhalation 8.6 mg/m ³ DNEL - Workers - Long term - Dermal 12.2 mg/kg bw/day
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts	DNEL - General population - Long term - Oral 0.24 mg/kg bw/day DNEL - General population - Long term - Inhalation 2.11 mg/m ³ DNEL - General population - Long term - Dermal 6.1 mg/kg bw/day DNEL - Workers - Long term - Inhalation 8.31 mg/m ³ DNEL - Workers - Long term - Dermal 12.1 mg/kg bw/day

PNECs

Not available.

8.2 Exposure controls

Appropriate engineering controls : If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

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.

Skin protection




SECTION 8: Exposure controls/personal 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
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.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: 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.
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.

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties**Appearance**

Physical state	: Liquid.		
Colour	: Amber./ Brown.		
Odour	: Characteristic.		
Odour threshold	: Not available.		
Melting point/freezing point	: Not available.		
Boiling point or initial boiling point and boiling range	: >316°C		
Flammability	: Not applicable.		
Lower and upper explosion limit/flammability limit	: Lower: 0.9% Upper: 7%		
Flash point	: Closed cup: >200°C [ASTM D-92]		
Auto-ignition temperature	: <table border="1"><tr><th>Ingredient name</th></tr><tr><td> Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</td></tr></table>	Ingredient name	 Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene
Ingredient name			
 Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene			

Decomposition temperature : Not available.

pH : Not available.

Viscosity : Dynamic (room temperature): Not available.
Kinematic (room temperature): Not available.
Kinematic (40°C): 61.8 mm²/s [ASTM D 445]

Solubility	: <table border="1"> <thead> <tr> <th>Media</th><th>Result</th></tr> </thead> <tbody> <tr> <td>Water</td><td>Insoluble</td></tr> </tbody> </table>	Media	Result	Water	Insoluble
Media	Result				
Water	Insoluble				

Partition coefficient: n-octanol/water : Not applicable.

Vapour pressure : <0.013 kPa (<0.1 mm Hg)

Mobile 1 10W-30**SECTION 9: Physical and chemical properties****Relative density** : 0.855 to 0.859 [ASTM D4052]**Relative vapour density** : >2 [Air = 1]**Particle characteristics****Median particle size** : Not applicable.**9.2 Other information****9.2.1 Information with regard to physical hazard classes****Explosive properties** : Not available.**Oxidising properties** : Not available.**9.2.2 Other safety characteristics****Miscible with water** : No.**Evaporation rate** : Not available.**Physical/chemical properties comments** : Pour point : -36°C (-33°F) [ASTM D97]**SECTION 10: Stability and reactivity****10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.**10.2 Chemical stability** : The product is stable.**10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.**10.4 Conditions to avoid** : No specific data.**10.5 Incompatible materials** : May react or be incompatible with oxidising materials.**10.6 Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity****Product/ingredient name****Result****Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene Distillates (petroleum), solvent-dewaxed heavy paraffinic**

Rat - Oral - LD50

>5000 mg/kg

Rabbit - Dermal - LD50

>5000 mg/kg

zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)

Rat - Oral - LD50

>5000 mg/kg

Rat - Inhalation - LC50 Dusts and mists

>5.53 mg/l [4 hours]

Rat - Male, Female - Oral - LD50

2.23 g/kg

Phosphorodithioic acid, mixed O,O-bis (1,3-dimethylbutyl and iso-Pr) esters, zinc salts

Rat - Male, Female - Dermal - LD50

>25000 mg/kg

Rat - Oral - LD50

3.2 g/kg

Conclusion/Summary : Not available.**[Product]****Acute toxicity estimates**

Mobile 1 10W-30

SECTION 11: Toxicological information

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
<input checked="" type="checkbox"/> Zinc O,O',O',O'-tetrakis(1,3-dimethylbutyl) bis (phosphorodithioate) Phosphorodithioic acid, mixed O,O-bis (1,3-dimethylbutyl and iso-Pr) esters, zinc salts	2230	N/A	N/A	N/A	N/A
	3200	N/A	N/A	N/A	N/A

Skin corrosion/irritation**Conclusion/Summary** : Repeated exposure may cause skin dryness or cracking.**[Product]**

Ingredient name	Conclusion/Summary
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<input checked="" type="checkbox"/> Distillates (petroleum), solvent-dewaxed heavy paraffinic	Non-irritant to skin.
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Serious eye damage/eye irritation**Conclusion/Summary** : Not available.**[Product]**

Ingredient name	Conclusion/Summary
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<input checked="" type="checkbox"/> Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	May cause mild eye irritation.
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Non-irritating to the eyes.

Respiratory corrosion/irritation**Conclusion/Summary** : Not available.**[Product]****Respiratory or skin sensitization**

Product/ingredient name	Result
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<input checked="" type="checkbox"/> Distillates (petroleum), solvent-dewaxed heavy paraffinic	Guinea pig - Respiratory	Not sensitizing
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Skin**Conclusion/Summary** : ☒ May cause skin sensitisation.**[Product]****Respiratory****Conclusion/Summary** : Not available.**[Product]****Germ cell mutagenicity****Conclusion/Summary** : Not available.**[Product]**

Ingredient name	Conclusion/Summary
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<input checked="" type="checkbox"/> Distillates (petroleum), solvent-dewaxed heavy paraffinic	No mutagenic effect.
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Carcinogenicity**Conclusion/Summary** : Not available.**[Product]****Reproductive toxicity****Conclusion/Summary** : Not available.**[Product]**

SECTION 11: Toxicological information**Ingredient name****Conclusion/Summary**

Distillates (petroleum), solvent-dewaxed heavy paraffinic No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard**Product/ingredient name****Result**

Distillates (petroleum), solvent-dewaxed heavy paraffinic ASPIRATION HAZARD - Category 1

1-Decene, tetramer, mixed with 1-decene trimer, hydrogenated ASPIRATION HAZARD - Category 1

Information on likely routes of exposure : Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

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 : Adverse symptoms may include the following:
reduced foetal weight
increase in foetal deaths
skeletal malformations

Skin contact : Adverse symptoms may include the following:
reduced foetal weight
increase in foetal deaths
skeletal malformations

Ingestion : Adverse symptoms may include the following:
reduced foetal weight
increase in foetal deaths
skeletal malformations

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Short term exposure**

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Conclusion/Summary [Product] : Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

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SECTION 11: Toxicological information

Mutagenicity : No known significant effects or critical hazards.
Reproductive toxicity : Suspected of damaging fertility.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Conclusion/Summary : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.
[Product]

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	Acute - EC50 - Fresh water 51 mg/l [48 hours]
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Acute - LC50 >100 mg/l [96 hours]
	Acute - EC50 >100 mg/l [48 hours]
	Acute - EC50 >100 mg/l [72 hours]

Conclusion/Summary : Not available.
[Product]

12.2 Persistence and degradability

Product/ingredient name	Result
Phosphorodithioic acid, mixed O,O-bis (1,3-dimethylbutyl and iso-Pr) esters, zinc salts	Aerobic 1.5% [28 days] - Not readily Aerobic

Conclusion/Summary : Not available.
[Product]

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	-	-	Not readily
zinc O,O,O',O'-tetrakis (1,3-dimethylbutyl) bis (phosphorodithioate)	-	-	Not readily
Phosphorodithioic acid, mixed O,O-bis (1,3-dimethylbutyl and iso-Pr) esters, zinc salts	-	-	Not readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	5.1	1730 [METI guideline (concentration test on chemical substances in fish)]	High
Distillates (petroleum), solvent-dewaxed heavy paraffinic	2 to 6	-	High
1-Decene, tetramer, mixed with 1-decene trimer, hydrogenated	5	-	High
zinc O,O,O',O'-tetrakis (1,3-dimethylbutyl) bis (phosphorodithioate)	2.21	-	Low
Phosphorodithioic acid, mixed O,O-bis	0.56	-	Low

Mobile 1 10W-30**SECTION 12: Ecological information**

(1,3-dimethylbutyl and iso-Pr) esters, zinc salts

12.4 Mobility in soil**Soil/water partition coefficient**

Product/ingredient name	logKoc	Koc
Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)	3.2	1488.77

Results of PMT and vPvM assessment

Product/ingredient name	PMT	P	M	T	vPvM	vP	vM
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene Distillates (petroleum), solvent-dewaxed heavy paraffinic	N/A	N/A	N/A	Yes	N/A	N/A	N/A
1-Decene, tetramer, mixed with 1-decene trimer, hydrogenated	No	No	No	No	No	No	No
zinc O,O,O',O'-tetrakis (1,3-dimethylbutyl) bis (phosphorodithioate)	No	N/A	N/A	No	N/A	N/A	N/A
Phosphorodithioic acid, mixed O,O-bis (1,3-dimethylbutyl and iso-Pr) esters, zinc salts	No	N/A	N/A	No	No	N/A	No
ORGANO MOLY-SULFUR COMPLEX	No	N/A	N/A	No	N/A	N/A	N/A

Mobility : Not available.**Conclusion/Summary** : The product does not meet the criteria to be considered as a PMT or vPvM.**12.5 Results of PBT and vPvB assessment****Regulation (EC) No. 1907/2006 [REACH]**

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene Distillates (petroleum), solvent-dewaxed heavy paraffinic	No	N/A	No	Yes	No	N/A	No
1-Decene, tetramer, mixed with 1-decene trimer, hydrogenated	No	N/A	N/A	No	N/A	N/A	N/A
zinc O,O,O',O'-tetrakis (1,3-dimethylbutyl) bis (phosphorodithioate)	No	N/A	N/A	No	N/A	N/A	N/A
Phosphorodithioic acid, mixed O,O-bis (1,3-dimethylbutyl and iso-Pr) esters, zinc salts	No	N/A	N/A	No	N/A	N/A	N/A
ORGANO MOLY-SULFUR COMPLEX	No	N/A	N/A	No	N/A	N/A	N/A

Regulation (EC) No. 1272/2008 [CLP]

SECTION 12: Ecological information

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene Distillates (petroleum), solvent-dewaxed heavy paraffinic	No	N/A	No	Yes	No	N/A	No
1-Decene, tetramer, mixed with 1-decene trimer, hydrogenated	No	No	No	No	No	No	No
zinc O,O,O',O'-tetrakis (1,3-dimethylbutyl) bis (phosphorodithioate)	No	N/A	N/A	No	N/A	N/A	N/A
Phosphorodithioic acid, mixed O,O-bis (1,3-dimethylbutyl and iso-Pr) esters, zinc salts	No	N/A	N/A	No	N/A	N/A	N/A
ORGANO MOLY-SULFUR COMPLEX	No	N/A	N/A	No	N/A	N/A	N/A

Conclusion/Summary Regulation (EC) No. 1272/2008 [CLP] : The product does not meet the criteria to be considered as a PBT or vPvB.

12.6 Endocrine disrupting properties

Conclusion/Summary [Product] : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product**

Methods of disposal : 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. The generation of waste should be avoided or minimised wherever possible. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Mobile 1 10W-30**SECTION 14: Transport information**

	ADR/RID	IMDG	IATA
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.

Additional information

14.6 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.

14.7 Transport in bulk according to IMO instruments : Not available.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU Regulation (EC) No. 1907/2006 (REACH)****Annex XIV - List of substances subject to authorisation****Annex XIV****Substances of very high concern**

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

None of the components are listed / The components are not impacted by a restriction

Labelling : Not applicable.**Other EU regulations****Ozone depleting substances (EU 2024/590)**

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations**Chemical Weapon Convention List Schedules I, II & III Chemicals**

Not listed.

Montreal Protocol

SECTION 15: Regulatory information

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.

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.

15.2 Chemical safety assessment : This product contains substances for which Chemical Safety Assessments might still be required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	: ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate B = Bioaccumulative BCF = Bioconcentration Factor CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods IMO = International Maritime Organization M = Mobile N/A = Not available P = Persistent PBT = Persistent, Bioaccumulative and Toxic PMT = Persistent, Mobile and Toxic PNEC = Predicted No Effect Concentration RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail RRN = REACH Registration Number SGG = Segregation Group
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Mobile 1 10W-30

SECTION 16: Other information

T = Toxic
vB = Very Bioaccumulative
vM = Very Mobile
vP = Very Persistent
vPvB = Very Persistent and Very Bioaccumulative
vPvM = Very Persistent and Very Mobile

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Repr. 2, H361f Aquatic Chronic 3, H412	Calculation method Calculation method

Full text of abbreviated H statements

H304 H315 H317 H318 H361f H411 H412 H413	May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Suspected of damaging fertility. Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. May cause long lasting harmful effects to aquatic life.
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Full text of classifications [CLP/GHS]

Aquatic Chronic 2 Aquatic Chronic 3 Aquatic Chronic 4 Asp. Tox. 1 Eye Dam. 1 Repr. 2 Skin Irrit. 2 Skin Sens. 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 REPRODUCTIVE TOXICITY - Category 2 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1
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Date of issue/ Date of revision : 24/09/2025

Date of previous issue : 26/12/2022

Version : 2

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