

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

**Product name** Optileb HY 68  
**Product code** 450702-DE54  
**SDS #** 450702  
**Product type** Liquid.

**Use of the substance/  
mixture** Food Machinery Lubricant Hydraulic fluid  
 For specific application advice see appropriate Technical Data Sheet or consult our company representative.

**1.3 Details of the supplier of the safety data sheet**

**Supplier** Minaco d.o.o.  
 Ul. VI bataljona bb  
 76250 Gradačac  
 Bosnia  
 +386 (0) 15136242  
**E-mail address** MSDSadvice@bp.com

**1.4 Emergency telephone number**

**EMERGENCY  
TELEPHONE NUMBER** Carechem: +44 (0) 1235 239 670 (24/7)  
**Iceland Poison Center**  
**Portugal Poison Center**

**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]**  
 Aquatic Chronic 2, H411

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

See sections 11 and 12 for more detailed information on health effects and symptoms and environmental hazards.

**2.2 Label elements****Hazard pictograms**

**Signal word** No signal word.  
**Hazard statements** H411 - Toxic to aquatic life with long lasting effects.

**Precautionary statements**

**Prevention** P273 - Avoid release to the environment.  
**Response** P391 - Collect spillage.  
**Storage** Not applicable.  
**Disposal** P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.  
**Hazardous ingredients** Not applicable.  
**Supplemental label elements** Not applicable.

**EU Regulation (EC) No. 1907/2006 (REACH)**

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SECTION 2: Hazards identification


Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not applicable.
Special packaging requirements	
Containers to be fitted with child-resistant fastenings	Not applicable.
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 contains substances that are assessed to be a PBT or a vPvB, refer to Section 3.2.
Product meets the criteria for endocrine disrupting properties according to Regulation (EC) No. 1907/2006.	This substance/mixture does not contain any components that are considered to have endocrine disrupting properties.
Other hazards which do not result in classification	Defatting to the skin. Note: High Pressure Applications Injections through the skin resulting from contact with the product at high pressure constitute a major medical emergency. See 'Notes to physician' under First-Aid Measures, Section 4 of this Safety Data Sheet.

SECTION 3: Composition/information on ingredients


3.2 Mixtures

Product definition Mixture

Synthetic lubricant and additives.

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
 O,O-triphenyl phosphorothioate	REACH #: 01-2119979545-21 EC: 209-909-9 CAS: 597-82-0	≤1	Aquatic Chronic 1, H410	M [Chronic] = 10	[1] [2]
2,6-ditert-butyl-p-cresol	REACH #: 01-2119565113-46 EC: 204-881-4 CAS: 128-37-0	≤0.3	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	REACH #: 01-2119491299-23 EC: 270-128-1 CAS: 68411-46-1	≤0.3	Repr. 2, H361f	-	[1]

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

-  [1] Substance classified with a health or environmental hazard  
[2] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Get medical attention.
Skin contact	Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritation develops.
Inhalation	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
Ingestion	Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Get medical attention if symptoms occur.

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## SECTION 4: First aid measures

**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 delayed

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

#### Potential acute health effects

**Inhalation** Vapour inhalation under ambient conditions is not normally a problem due to low vapour pressure.

**Ingestion** No known significant effects or critical hazards.

**Skin contact** Defatting to the skin. May cause skin dryness and irritation.

**Eye contact**

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

**Inhalation** Overexposure to the inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.

**Ingestion** Ingestion of large quantities may cause nausea and diarrhoea.

**Skin contact** Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis.

**Eye contact** Potential risk of transient stinging or redness if accidental eye contact occurs.

### 4.3 Indication of any immediate medical attention and special treatment needed

**Notes to physician** Treatment should in general be symptomatic and directed to relieving any effects.  
Note: High Pressure Applications  
Injections through the skin resulting from contact with the product at high pressure constitute a major medical emergency. Injuries may not appear serious at first but within a few hours tissue becomes swollen, discoloured and extremely painful with extensive subcutaneous necrosis. Surgical exploration should be undertaken without delay. Thorough and extensive debridement of the wound and underlying tissue is necessary to minimise tissue loss and prevent or limit permanent damage. Note that high pressure may force the product considerable distances along tissue planes.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** Use foam or all-purpose dry chemical to extinguish.

**Unsuitable extinguishing media** Do not use water jet. The use of a water jet may cause the fire to spread by splashing the burning product.

### 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.

**Hazardous combustion products** Combustion products may include the following:  
carbon oxides (CO, CO<sub>2</sub>) (carbon monoxide, carbon dioxide)

### 5.3 Advice for firefighters

**Special precautions for fire-fighters** No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. This material is toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**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.

## SECTION 6: Accidental release measures

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

**For non-emergency personnel** Contact emergency personnel. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Floors may be slippery; use care to avoid falling. Avoid breathing vapour or mist. Provide adequate ventilation. Put on appropriate personal protective equipment.

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## SECTION 6: Accidental release measures

### For emergency responders

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

### 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. Collect spillage.

### 6.3 Methods and material 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. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Contaminated absorbent material may pose the same hazard as the spilt product. Dispose of via a licensed waste disposal contractor.

### 6.4 Reference to other sections

See Section 1 for emergency contact information.  
See Section 5 for firefighting measures.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 12 for environmental precautions.  
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. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid contact of spilt material and runoff with soil and surface waterways. 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. Empty containers retain product residue and can be hazardous.

#### Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Keep away from heat and direct sunlight. 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. Store and use only in equipment/containers designed for use with this product. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

#### Not suitable

Prolonged exposure to elevated temperature

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

##### Europe

No exposure limit value known.

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

#### 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.

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**SECTION 8: Exposure controls/personal protection****Biological exposure indices****Product/ingredient name****Exposure indices**

No exposure indices known.

**Derived No Effect Level**

No DNELs/DMELs available.

**PNECs**

Not available.

**8.2 Exposure controls****Appropriate engineering controls**

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

All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained.

Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards. The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

**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. Ensure that eyewash stations and safety showers are close to the workstation location.

**Respiratory protection**

In case of insufficient ventilation, wear suitable respiratory equipment.

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

**Eye/face protection**

Safety glasses with side shields.

**Skin protection****Hand protection****General Information:**

Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. The correct choice of protective gloves depends upon the chemicals being handled, and the conditions of work and use. Most gloves provide protection for only a limited time before they must be discarded and replaced (even the best chemically resistant gloves will break down after repeated chemical exposures).

Gloves should be chosen in consultation with the supplier / manufacturer and taking account of a full assessment of the working conditions.

Recommended: Nitrile gloves.

**Breakthrough time:**

Breakthrough time data are generated by glove manufacturers under laboratory test conditions and represent how long a glove can be expected to provide effective permeation resistance. It is important when following breakthrough time recommendations that actual workplace conditions are taken into account. Always consult with your glove supplier for up-to-date technical information on breakthrough times for the recommended glove type.

Our recommendations on the selection of gloves are as follows:

**Continuous contact:**

Gloves with a minimum breakthrough time of 240 minutes, or >480 minutes if suitable gloves can be obtained.

If suitable gloves are not available to offer that level of protection, gloves with shorter breakthrough times may be acceptable as long as appropriate glove maintenance and replacement regimes are determined and adhered to.

**Short-term / splash protection:**

Recommended breakthrough times as above.

It is recognised that for short-term, transient exposures, gloves with shorter breakthrough times

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

may commonly be used. Therefore, appropriate maintenance and replacement regimes must be determined and rigorously followed.

**Glove Thickness:**

For general applications, we recommend gloves with a thickness typically greater than 0.35 mm.

It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times. Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers' technical data should always be taken into account to ensure selection of the most appropriate glove for the task.

Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example:

- Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.
- Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential.

**Skin and body**

Use of protective clothing is good industrial practice. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required.

**Refer to standards:**

Respiratory protection: EN 529  
Gloves: EN 420, EN 374  
Eye protection: EN 166  
Filtering half-mask: EN 149  
Filtering half-mask with valve: EN 405  
Half-mask: EN 140 plus filter  
Full-face mask: EN 136 plus filter  
Particulate filters: EN 143  
Gas/combined filters: EN 14387

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

Liquid.

**Colour**

Colourless. [Light]

**Odour**

Not available.

**Odour threshold**

Not available.

**pH**

Not applicable.

**Melting point/freezing point**

Not available.

**Initial boiling point and boiling range**

Not available.

**Pour point**

-75 °C

**Flash point**

Open cup: 219°C (426.2°F) [Cleveland DIN EN ISO 2592]

**Evaporation rate**

Not available.

**Flammability**

Not available.

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**SECTION 9: Physical and chemical properties****Lower and upper explosion limit**

Not available.

**Vapour pressure**

Ingredient name	Vapour Pressure at 20°C		Vapour pressure at 50°C	
	mm Hg	kPa	Method	mm Hg kPa
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	<0.0041	<0.00055	ASTM E 1194-87	
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	<0.0041	<0.00055	ASTM E 1194-87	

**Vapour density**

Not available.

**Density and/or Relative density  
Solubility(ies)**

Not available.

<1000 kg/m<sup>3</sup> (<1 g/cm<sup>3</sup>) at 15°C

Media	Result
water	Not soluble

**Partition coefficient n-octanol/  
water (log value)**

Not applicable.

**Auto-ignition temperature**

Not available.

**Decomposition temperature**

Not available.

**Kinematic viscosity**Kinematic: 68.1 mm<sup>2</sup>/s (68.1 cSt) at 40°CKinematic: 10.67 mm<sup>2</sup>/s (10.67 cSt) at 100°C (ASTM D 445)**Explosive properties**

Not available.

**Oxidising properties**

Not available.

**9.2 Other information**

No additional information.

**SECTION 10: Stability and reactivity****10.1 Reactivity**

No specific test data available for this product. Refer to Conditions to avoid and Incompatible materials for additional information.

**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.

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

**10.4 Conditions to avoid**

Avoid all possible sources of ignition (spark or flame).

**10.5 Incompatible materials**

Reactive or incompatible with the following materials: 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 hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity****Product/ingredient name**

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene

**Result****Rat - Oral - LC50**>5000 mg/kg  
OECD 401**Rat - Dermal - LC50**>2000 mg/kg  
OECD 402**Product name** Optileb HY 68**Product code** 450702-DE54**Page:** 7/18**Version** 4**Date of issue** 2 October 2025**Format** Bosnia and  
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SECTION 11: Toxicological information

Acute toxicity estimates  
N/A

Skin corrosion/irritation  
Product/ingredient name  
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene

Result  
Rabbit - Skin - Slightly irritating to the skin.  
OECD 404

Serious eye damage/eye irritation  
Product/ingredient name  
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene

Result  
Rabbit - Eyes - Not irritant  
OECD 405

Respiratory corrosion/irritation  
Not available.

Respiratory or skin sensitization  
Product/ingredient name  
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene

Result  
Guinea pig - skin  
OECD 406  
Result: Not sensitising

Germ cell mutagenicity  
Product/ingredient name  
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene

Result  
In vitro - Bacteria  
OECD 471  
Result: Negative  
  
In vitro - Mammalian-Animal  
OECD 487  
Result: Negative  
  
In vitro - Mammalian-Animal  
OECD 476  
Result: Negative

Carcinogenicity  
Not available.

Reproductive toxicity  
Product/ingredient name  
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene

Result  
Rat - Oral  
OECD 443  
Maternal toxicity: Negative  
Fertility effects: Positive  
Developmental: Negative

Specific target organ toxicity (single exposure)  
Not available.

Specific target organ toxicity (repeated exposure)

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**SECTION 11: Toxicological information**

Not available.

**Aspiration hazard**

Not available.

**Information on likely routes of exposure**

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

**Potential acute health effects****Inhalation**

Vapour inhalation under ambient conditions is not normally a problem due to low vapour pressure.

**Ingestion**

No known significant effects or critical hazards.

**Skin contact**

Defatting to the skin. May cause skin dryness and irritation.

**Eye contact****Symptoms related to the physical, chemical and toxicological characteristics****Inhalation**

No specific data.

**Ingestion**

No specific data.

**Skin contact**Adverse symptoms may include the following:  
irritation  
dryness  
cracking**Eye contact**

No specific data.

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

Overexposure to the inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.

**Ingestion**

Ingestion of large quantities may cause nausea and diarrhoea.

**Skin contact**

Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis.

**Eye contact**

Potential risk of transient stinging or redness if accidental eye contact occurs.

**Potential chronic health effects**

Not available.

**Conclusion/Summary [Product]**

Not available.

**General**

No known significant effects or critical hazards.

**Carcinogenicity**

No known significant effects or critical hazards.

**Mutagenicity**

No known significant effects or critical hazards.

**Developmental effects**

No known significant effects or critical hazards.

**Fertility effects**

No known significant effects or critical hazards.

**11.2 Information on other hazards****11.2.1 Endocrine disrupting properties**

Not available.

**Conclusion/Summary [Product]**

This substance/mixture does not contain any components that are considered to have endocrine disrupting properties.

**11.2.2 Other information**

Not available.

**SECTION 12: Ecological information****12.1 Toxicity****Product/ingredient name**Benzenamine, N-phenyl-, reaction products with  
2,4,4-trimethylpentene**Result****Acute - ErC50**OECD 201  
Algae  
>100 mg/l [72 hours]**Acute - EC50**OECD 202  
Daphnia  
51 mg/l [48 hours]**Acute - LC50**OECD 203  
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**SECTION 12: Ecological information**

&gt;100 mg/l [96 hours]

**Chronic - EC10**

OECD 211

Daphnia

1.69 mg/l [21 days]

**Chronic - NOEC**

OECD 201

Algae

≥10 mg/l [72 hours]

**Environmental hazards**

Toxic to aquatic life with long lasting effects.

**12.2 Persistence and degradability**

Not expected to be rapidly degradable.

**Product/ingredient name**Benzenamine, N-phenyl-, reaction products with  
2,4,4-trimethylpentene**Result**OECD 301B  
1% [28 days]**12.3 Bioaccumulative potential**

Not available.

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
2,6-di-tert-butyl-p-cresol	5.1	-	High
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	5.1	-	High

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

Product/ingredient name	logK <sub>oc</sub>	K <sub>oc</sub>
O,O,O-triphenyl phosphorothioate	4.69	49128.4
2,6-di-tert-butyl-p-cresol	3.65	4489.84

**Results of PMT and vPvM assessment**

Product/ingredient name	PMT	P	M	T	vPvM	vP	vM
O,O,O-triphenyl phosphorothioate	No	No	No	No	No	No	No
2,6-di-tert-butyl-p-cresol	No	No	No	No	No	No	No
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	No	No	No	No	No	No	No

**Mobility**

Liquid. insoluble in water.

**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
<input checked="" type="checkbox"/> O,O,O-triphenyl phosphorothioate	Yes	Yes	Yes	Yes	N/A	N/A
2,6-di-tert-butyl-p-cresol	No	N/A	N/A	No	N/A	N/A
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	N/A	N/A	N/A	Yes	N/A	N/A

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

Product/ingredient name	PBT	P	B	T	vPvB	vP
O,O,O-triphenyl phosphorothioate	No	No	No	No	No	No
2,6-di-tert-butyl-p-cresol	No	No	No	No	No	No
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	No	No	No	No	No	No

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SECTION 12: Ecological information

**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** No known significant effects or critical hazards.  
Not available.

**Conclusion/Summary [Product]** This substance/mixture does not contain any components that are considered to have endocrine disrupting properties.

**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** Where possible, arrange for product to be recycled. Dispose of via an authorised person/ licensed waste disposal contractor in accordance with local regulations.

**Hazardous waste** Yes.

European waste catalogue (EWC)

Waste code	Waste designation
13 01 11*	synthetic hydraulic oils

However, deviation from the intended use and/or the presence of any potential contaminants may require an alternative waste disposal code to be assigned by the end user.

Packaging









**Methods of disposal** Where possible, arrange for product to be recycled. Dispose of via an authorised person/ licensed waste disposal contractor in accordance with local regulations.

Waste code	European waste catalogue (EWC)
15 01 10*	packaging containing residues of or contaminated by hazardous substances

**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. Empty containers represent a fire hazard as they may contain flammable product residues and vapour. Never weld, solder or braze empty containers. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

**References** Commission 2014/955/EU  
Directive 2008/98/EC

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
<b>14.1 UN number or ID number</b>	UN3082	UN3082	UN3082	UN3082
<b>14.2 UN proper shipping name</b>	Environmentally hazardous substance, liquid, n.o.s. (O,O,O-triphenyl phosphorothioate)	Environmentally hazardous substance, liquid, n.o.s. (O,O,O-triphenyl phosphorothioate)	Environmentally hazardous substance, liquid, n.o.s.. Marine pollutant (O,O,O-triphenyl phosphorothioate)	Environmentally hazardous substance, liquid, n.o.s. (O,O,O-triphenyl phosphorothioate)
<b>14.3 Transport hazard class(es)</b>	9  	9  	9  	9  
<b>14.4 Packing group</b>	III	III	III	III
<b>14.5 Environmental hazards</b>	Yes.	Yes.	Yes.	Yes.

SECTION 14: Transport information

<b>Additional information</b>	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. <b>Hazard identification number</b> 90 <b>Tunnel code</b> -	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. <b>Emergency schedules</b> F-A, S-F	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.
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14.6 Special precautions for user Not available.

UK Emergency Action Code: •3Z

ADR/RID Classification code: M6

ADN Classification code: M6

14.7 Maritime 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](#)

None of the components are listed.

[Substances of very high concern](#)

<b>Ingredient name</b>	<b>Intrinsic property</b>	<b>Status</b>	<b>Reference number</b>	<b>Date of revision</b>
 O,O-triphenyl phosphorothioate	PBT	Candidate	D(2024) 7663-DC	1/21/2025

[Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles](#)

<b>Product/ingredient name</b>	<b>%</b>	<b>Designation [Usage]</b>
Optileb HY 68	≥90	3

Labelling Not applicable.

[Other regulations](#)

**REACH Status** The company, as identified in Section 1, sells this product in the EU in compliance with the current requirements of REACH.

**United States inventory (TSCA 8b)** All components are active or exempted.

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

**Canada inventory** All components are listed or exempted.

**China inventory (IECSC)** All components are listed or exempted.

**Japan inventory (CSCL)** All components are listed or exempted.

**Korea inventory (KECI)** All components are listed or exempted.

**Philippines inventory (PICCS)** All components are listed or exempted.

**Taiwan Chemical Substances Inventory (TCSI)** All components are listed or exempted.

**Explosive precursors** Not applicable.

[Ozone depleting substances \(EU 2024/590\)](#)

Not listed.

**SECTION 15: Regulatory information****Prior Informed Consent (PIC) (649/2012/EU)**

Not listed.

**Seveso Directive**

This product is controlled under the Seveso Directive.

**Danger criteria****Category**

E2

**15.2 Chemical safety assessment**

A Chemical Safety Assessment has been carried out for one or more of the substances within this mixture. A Chemical Safety Assessment has not been carried out for the mixture itself.

**SECTION 16: Other information****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  
 BCF = Bioconcentration Factor  
 CAS = Chemical Abstracts Service  
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
 CSA = Chemical Safety Assessment  
 CSR = Chemical Safety Report  
 DMEL = Derived Minimal Effect Level  
 DNEL = Derived No Effect Level  
 EINECS = European Inventory of Existing Commercial chemical Substances  
 ES = Exposure Scenario  
 EUH statement = CLP-specific Hazard statement  
 EWC = European Waste Catalogue  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 IATA = International Air Transport Association  
 IBC = Intermediate Bulk Container  
 IMDG = International Maritime Dangerous Goods  
 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)  
 OECD = Organisation for Economic Co-operation and Development  
 PBT = Persistent, Bioaccumulative and Toxic  
 PNEC = Predicted No Effect Concentration  
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006]  
 RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
 RRN = REACH Registration Number  
 SADT = Self-Accelerating Decomposition Temperature  
 SVHC = Substances of Very High Concern  
 STOT-RE = Specific Target Organ Toxicity - Repeated Exposure  
 STOT-SE = Specific Target Organ Toxicity - Single Exposure  
 TWA = Time weighted average  
 UN = United Nations  
 UVCB = Complex hydrocarbon substance  
 VOC = Volatile Organic Compound  
 vPvB = Very Persistent and Very Bioaccumulative  
 Varies = may contain one or more of the following 64741-88-4 / RRN 01-2119488706-23, 64741-89-5 / RRN 01-2119487067-30, 64741-95-3 / RRN 01-2119487081-40, 64741-96-4 / RRN 01-2119483621-38, 64742-01-4 / RRN 01-2119488707-21, 64742-44-5 / RRN 01-2119985177-24, 64742-45-6, 64742-52-5 / RRN 01-2119467170-45, 64742-53-6 / RRN 01-2119480375-34, 64742-54-7 / RRN 01-2119484627-25, 64742-55-8 / RRN 01-2119487077-29, 64742-56-9 / RRN 01-2119480132-48, 64742-57-0 / RRN 01-2119489287-22, 64742-58-1, 64742-62-7 / RRN 01-2119480472-38, 64742-63-8, 64742-65-0 / RRN 01-2119471299-27, 64742-70-7 / RRN 01-2119487080-42, 72623-85-9 / RRN 01-2119555262-43, 72623-86-0 / RRN 01-2119474878-16, 72623-87-1 / RRN 01-2119474889-13

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

Classification	Justification
Aquatic Chronic 2, H411	Calculation method

**Full text of classifications [CLP/GHS]**

<b>Product name</b> Optileb HY 68	<b>Product code</b> 450702-DE54	<b>Page:</b> 13/18
<b>Version</b> 4	<b>Date of issue</b> 2 October 2025	<b>Format</b> Bosnia and Herzegovina Bosnia and Herzegovina
		<b>Language</b> ENGLISH

SECTION 16: Other information

Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Repr. 2	REPRODUCTIVE TOXICITY - Category 2

Europe

Full text of abbreviated H statements	H361f	Suspected of damaging fertility.
	H400	Very toxic to aquatic life.
	H410	Very toxic to aquatic life with long lasting effects.
Full text of classifications [CLP/GHS]	Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
	Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
	Repr. 2	REPRODUCTIVE TOXICITY - Category 2

History

Date of issue/ Date of revision	02/10/2025.
Date of previous issue	22/09/2025.
Prepared by	Product Stewardship

Indicates information that has changed from previously issued version.

Notice to reader

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SECTION 16: Other information



SECTION 16: Other information

<p><b>PNECs</b></p> <p><b>Rat - Dermal - LC50</b> Not available. &gt;2000 mg/kg OECD 402</p>		<p><b>Flammability</b></p> <p><b>Conclusion/Summary [Product]</b></p> <p><b>Density and/or Relative density</b></p> <p><b>Density and/or Relative density</b></p> <p><b>Partition coefficient n-octanol/ water (log value)</b></p> <p><b>Kinematic viscosity</b></p>	
<p><b>Skin corrosion/irritation</b></p> <p><b>Result</b></p> <p><b>Rabbit - Skin - Slightly irritating to the skin.</b> OECD 404</p> <p>Not available.</p>		<p><b>Product/ingredient name</b></p> <p>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</p> <p><b>Conclusion/Summary [Product]</b></p>	
<p><b>Serious eye damage/eye irritation</b></p> <p><b>Result</b></p> <p><b>Rabbit - Eyes - Not irritant</b> OECD 405</p> <p><b>Conclusion/Summary [Product]</b> Not available.</p>		<p><b>Product/ingredient name</b></p> <p>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</p>	
<p><b>Respiratory corrosion/irritation</b></p> <p>Not available.</p> <p><b>Conclusion/Summary [Product]</b> Not available.</p>			
<p><b>Respiratory or skin sensitization</b></p> <p><b>Result</b></p> <p><b>Guinea pig - skin</b> OECD 406 <u>Result</u>: Not sensitising</p> <p><b>Skin</b></p> <p><b>Conclusion/Summary [Product]</b> Not available.</p> <p><b>Respiratory</b></p> <p><b>Conclusion/Summary [Product]</b> Not available.</p>		<p><b>Product/ingredient name</b></p> <p>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</p>	
<p><b>Germ cell mutagenicity</b></p> <p><b>Result</b></p> <p><b>In vitro - Bacteria</b> OECD 471 <u>Result</u>: Negative</p> <p><b>In vitro - Mammalian-Animal</b> OECD 487 <u>Result</u>: Negative</p> <p><b>In vitro - Mammalian-Animal</b> OECD 476 <u>Result</u>: Negative</p> <p><b>Conclusion/Summary [Product]</b> Not available.</p>		<p><b>Product/ingredient name</b></p> <p>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</p>	
<p><b>Carcinogenicity</b></p> <p>Not available.</p> <p><b>Conclusion/Summary [Product]</b> Not available.</p>			

Result	Product/ingredient name
<b>Rat - Oral</b> OECD 443 Maternal toxicity: Negative Fertility effects: Positive Developmental: Negative	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene

Conclusion/Summary [Product] Not available.

Specific target organ toxicity (single exposure)  
Not available.

Specific target organ toxicity (repeated exposure)  
Not available.

Aspiration hazard  
Not available.

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

Result	Product/ingredient name
<b>Acute - ErC50</b> OECD 201 Algae >100 mg/l [72 hours]	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene
<b>Acute - EC50</b> OECD 202 Daphnia 51 mg/l [48 hours]	
<b>Acute - LC50</b> OECD 203 Fish >100 mg/l [96 hours]	
<b>Chronic - EC10</b> OECD 211 Daphnia 1.69 mg/l [21 days]	
<b>Chronic - NOEC</b> OECD 201 Algae ≥10 mg/l [72 hours]	

Result	Product/ingredient name
OECD 301B 1% [28 days]	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene

Soil/water partition coefficient

Koc	logKoc	Product/ingredient name
49128.4 4489.84	4.69 3.65	O,O,O-triphenyl phosphorothioate 2,6-di-tert-butyl-p-cresol

Results of PMT and vPvM assessment

vM	vP	vPvM	T	M	P	PMT	Product/ingredient name
No	No	No	No	No	No	No	O,O,O-triphenyl phosphorothioate
No	No	No	No	No	No	No	2,6-di-tert-butyl-p-cresol
No	No	No	No	No	No	No	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene

Liquid. insoluble in water.

The product does not meet the criteria to be considered as a PMT or vPvM.

Mobility

Conclusion/Summary

<b>Product name</b> Optileb HY 68	<b>Product code</b> 450702-DE54	<b>Page:</b> 17/18
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		<b>Language</b> ENGLISH

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

Regulation (EC) No. 1907/2006 [REACH]							number	revision
O,O,O-Triphenyl phosphorothioate				PBT		Candidate	D(2024)	1/21/2025
	vP	vPvB	T	B	P	PBT	7663-DC	Product/ingredient name
N/A	N/A	N/A	Yes	Yes	Yes	Yes	O,O,O-triphenyl phosphorothioate 2,6-di-tert-butyl-p-cresol Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	
N/A	N/A	N/A	No	N/A	N/A	No		
N/A	N/A	N/A	Yes	N/A	N/A	N/A		

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

	vP	vPvB	T	B	P	PBT	Product/ingredient name
No	No	No	No	No	No	No	O,O,O-triphenyl phosphorothioate
No	No	No	No	No	No	No	2,6-di-tert-butyl-p-cresol
No	No	No	No	No	No	No	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene

The product does not meet the criteria to be considered as a PBT or vPvB.

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

Not available.

This substance/mixture does not contain any components that are considered to have endocrine disrupting properties.

Conclusion/Summary [Product]

12.7 Other adverse effects

No known significant effects or critical hazards.