

SAFETY DATA SHEET



HARTÖL 6448-15 - All variants

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

1.1 Product identifier

Product name : HARTÖL 6448-15 - All variants

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

Product use : Paint.

1.3 Details of the supplier of the safety data sheet

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091.

e-mail address of person responsible for this SDS : Prod-safe@teknos.com

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : In an emergency, call 112

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]

Not classified.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

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

2.2 Label elements

Signal word : No signal word.

Hazard statements : No known significant effects or critical hazards.

Precautionary statements

Prevention : Not applicable.

Response : Not applicable.

Storage : Not applicable.

Disposal : Not applicable.

Supplemental label elements : Safety data sheet available on request.

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

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.

Date of issue/Date of revision : 06/02/2026 Date of previous issue : 10/01/2025

Version : 1.03 1/21

HARTÖL 6448-15 - All variants

Label No : 8909

SECTION 2: Hazards identification

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
White mineral oil (petroleum)	EC: 232-455-8 CAS: 8042-47-5	≤10	Asp. Tox. 1, H304	-	[1]
Naphtha (petroleum), hydrotreated light	REACH #: 01-2119475515-33 EC: 265-151-9 CAS: 64742-49-0 Index: 649-328-00-1	≤10	Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 3, H412 See Section 16 for the full text of the H statements declared above.	-	[1]

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

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. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- Skin contact** : Flush contaminated skin with plenty of 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.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

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

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- 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.

Hazardous combustion products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

5.3 Advice for firefighters

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. 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 : 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. 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).

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. 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.

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

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 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.

7.2 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

- Recommendations** : Not available.
- Industrial sector specific solutions** : Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
White mineral oil (petroleum) Naphtha (petroleum), hydrotreated light	Regulation on Limit Values - MAC (Austria, 12/2024) [Mineralöle] Carc C. Regulation on Limit Values - MAC (Austria, 12/2024) [Hexan (alle Isomeren außer n-Hexan und Methylcyclopentan)] PEAK 15 minutes: 800 ppm 4 times per shift. TWA 8 hours: 715 mg/m ³ . TWA 8 hours: 200 ppm. PEAK 15 minutes: 2860 mg/m ³ 4 times per shift.
White mineral oil (petroleum) Naphtha (petroleum), hydrotreated light	Limit values (Belgium, 12/2023) [Olie] TWA 8 hours: 5 mg/m ³ . Form: Mist. STEL 15 minutes: 10 mg/m ³ . Form: Mist. Limit values (Belgium, 12/2023) [Hexaan (andere isomeren dan n-hexaan)] TWA 8 hours: 500 ppm. TWA 8 hours: 1786 mg/m ³ . STEL 15 minutes: 1000 ppm. STEL 15 minutes: 3551 mg/m ³ .
White mineral oil (petroleum)	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) [Oils – mineral, petroleum] Limit value 8 hours: 5 mg/m ³ .
No exposure limit value known.	
No exposure limit value known.	

SECTION 8: Exposure controls/personal protection

<p>White mineral oil (petroleum)</p> <p>Naphtha (petroleum), hydrotreated light</p>	<p>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) [oleje minerální] TWA 8 hours: 5 mg/m³. Form: Aerosol. STEL 15 minutes: 10 mg/m³. Form: Aerosol.</p> <p>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) [hexan isomery] TWA 8 hours: 1000 mg/m³. TWA 8 hours: 279 ppm. STEL 15 minutes: 2000 mg/m³. STEL 15 minutes: 558 ppm.</p>
<p>White mineral oil (petroleum)</p> <p>Naphtha (petroleum), hydrotreated light</p>	<p>Working Environment Authority (Denmark, 12/2024) [olietåge, mineraloliepartikler] TWA 8 hours: 1 mg/m³. Form: mist and particles. STEL 15 minutes: 2 mg/m³. Form: mist and particles.</p> <p>Working Environment Authority (Denmark, 12/2024) [hexan, andre isomere end n-hexan] TWA 8 hours: 200 ppm. TWA 8 hours: 700 mg/m³. STEL 15 minutes: 1400 mg/m³. STEL 15 minutes: 400 ppm.</p>
<p>Naphtha (petroleum), hydrotreated light</p>	<p>Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) [heksaanid v.a n-heksaan] TWA 8 hours: 700 mg/m³. TWA 8 hours: 200 ppm. STEL 15 minutes: 1100 mg/m³. STEL 15 minutes: 300 ppm.</p>
<p>No exposure limit value known.</p>	
<p>Linseed-oil</p> <p>White mineral oil (petroleum)</p> <p>Naphtha (petroleum), hydrotreated light</p>	<p>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) [Öljysumu] TWA 8 hours: 5 mg/m³. Form: Mist.</p> <p>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) [Öljysumu] TWA 8 hours: 5 mg/m³. Form: Mist.</p> <p>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) [Heksaani, paitsi n-heksaani] TWA 8 hours: 500 ppm. TWA 8 hours: 1800 mg/m³. STEL 15 minutes: 630 ppm. STEL 15 minutes: 2300 mg/m³.</p> <p>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) [Heksaani, isomeerien seos (joka sisältää vähemmän kuin 5% n-heksaania)] STEL 15 minutes: 630 ppm. TWA 8 hours: 1800 mg/m³. TWA 8 hours: 500 ppm. STEL 15 minutes: 2300 mg/m³.</p>
<p>Naphtha (petroleum), hydrotreated light</p>	<p>Ministry of Labor (France, 6/2024) [Hexane (autres isomères)] TWA 8 hours: 500 ppm. Notes: Permissible limit values (circulars) TWA 8 hours: 1800 mg/m³. Notes: Permissible limit values (circulars)</p>
<p>Pung oil</p>	<p>TRGS 900 OEL (Germany, 6/2024) [Triglyceride] PEAK 15 minutes: 20 mg/m³. Form: Respirable fraction. TWA 8 hours: 5 mg/m³. Form: Respirable fraction.</p>
<p>Linseed-oil</p>	<p>TRGS 900 OEL (Germany, 6/2024) [Triglyceride] PEAK 15 minutes: 20 mg/m³. Form: Respirable fraction. TWA 8 hours: 5 mg/m³. Form: Respirable fraction.</p>
<p>White mineral oil (petroleum)</p>	<p>TRGS 900 OEL (Germany, 6/2024) PEAK 15 minutes: 20 mg/m³. Form: Respirable fraction. TWA 8 hours: 5 mg/m³. Form: Respirable fraction.</p> <p>DFG MAC-values list (Germany, 7/2024) Develop C. PEAK 15 minutes: 20 mg/m³ 4 times per shift [Interval: 1 hour].</p>

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<p>Naphtha (petroleum), hydrotreated light</p>	<p>Form: respirable fraction. TWA 8 hours: 5 mg/m³. Form: respirable fraction. TRGS 900 OEL (Germany, 6/2024) [Hexan Isomere (außer n-Hexan) und Methylcyclopentan] TWA 8 hours: 1800 mg/m³. TWA 8 hours: 500 ppm. PEAK 15 minutes: 3600 mg/m³. PEAK 15 minutes: 1000 ppm. DFG MAC-values list (Germany, 7/2024) [Hexane] Develop D. TWA 8 hours: 500 ppm. PEAK 15 minutes: 1000 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 1800 mg/m³. PEAK 15 minutes: 3600 mg/m³ 4 times per shift [Interval: 1 hour].</p>
<p>White mineral oil (petroleum)</p>	<p>Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024) [ορυκτέλαιο] TWA 8 hours: 5 mg/m³. Form: mist. Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024) [εργασίες που συνεπάγονται δερματική έκθεση σε ορυκτέλαια που έχουν χρησιμοποιηθεί προηγουμένως σε κινητήρες εσωτερικής καύσης για τη λίπανση και την ψύξη των κινητών μερών εντός του κινητήρα] Absorbed through skin.</p>
<p>Naphtha (petroleum), hydrotreated light</p>	<p>Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024) [εξάνιο (όλα τα ισομερή)] TWA 8 hours: 500 ppm. TWA 8 hours: 1800 mg/m³. STEL 15 minutes: 1000 ppm. STEL 15 minutes: 3600 mg/m³.</p>
<p>White mineral oil (petroleum)</p>	<p>5/2020. (II. 6.) ITM Decree (Hungary, 1/2025) [olaj (ásványi)] TWA 8 hours: 5 mg/m³. Form: Mist.</p>
<p>White mineral oil (petroleum)</p>	<p>Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024) [Oliúpoka, steinefnaolíuagnir] TWA 8 hours: 1 mg/m³. Form: particulates.</p>
<p>Naphtha (petroleum), hydrotreated light</p>	<p>Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024) [Hexan, aðrir ísómerar en n -hexan] TWA 8 hours: 700 mg/m³. TWA 8 hours: 200 ppm.</p>
<p>White mineral oil (petroleum)</p>	<p>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.</p>
<p>Naphtha (petroleum), hydrotreated light</p>	<p>NAOSH (Ireland, 4/2024) [hexane] Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV 8 hours: 500 ppm. OELV 8 hours: 1800 mg/m³. OELV 15 minutes: 1000 ppm. OELV 15 minutes: 3600 mg/m³.</p>
<p>Polyethylene wax</p>	<p>NAOSH (Ireland, 4/2024) Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV 8 hours: 2 mg/m³. Form: fume. OELV 15 minutes: 6 mg/m³. Form: fume.</p>
<p>No exposure limit value known.</p>	
<p>White mineral oil (petroleum)</p>	<p>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024) [Naftas minerāleļļas] TWA 8 hours: 5 mg/m³.</p>
<p>Naphtha (petroleum), hydrotreated light</p>	<p>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024) [Ogļūdeņraži, piesātinātie alifātiskie, C1-10] TWA 8 hours: 100 mg/m³ (as C). STEL 15 minutes: 300 mg/m³ (as C).</p>

SECTION 8: Exposure controls/personal protection

<p><input checked="" type="checkbox"/> Inseed-oil</p> <p>White mineral oil (petroleum)</p> <p>Naphtha (petroleum), hydrotreated light</p> <p>Ethene, homopolymer</p>	<p>Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) [tepalo rūkas, įskaitant dūmus] TWA 8 hours: 1 mg/m³. Form: Mist. STEL 15 minutes: 3 mg/m³. Form: Mist.</p> <p>Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) [tepalo rūkas, įskaitant dūmus] TWA 8 hours: 1 mg/m³. Form: Mist. STEL 15 minutes: 3 mg/m³. Form: Mist.</p> <p>Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) [heksanai, išskyrus n-heksaną] TWA 8 hours: 700 mg/m³. TWA 8 hours: 200 ppm. STEL 15 minutes: 1100 mg/m³. STEL 15 minutes: 300 ppm.</p> <p>Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) TWA 8 hours: 10 mg/m³.</p>
<p><input checked="" type="checkbox"/> No exposure limit value known.</p> <p><input checked="" type="checkbox"/> White mineral oil (petroleum)</p> <p><input checked="" type="checkbox"/> White mineral oil (petroleum)</p> <p><input checked="" type="checkbox"/> White mineral oil (petroleum)</p>	<p>Ministry of Health (Malta, 4/2024) [mineral oils that have been used before in internal combustion engines to lubricate and cool the moving parts within the engine] Absorbed through skin.</p> <p>Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024) [olienevel (minerale olie)] TWA 8 hours: 5 mg/m³. Form: Mist.</p> <p>FOR-2011-12-06-1358 (Norway, 5/2024) [oljetåke (mineralolje-partikler)] TWA 8 hours: 1 mg/m³. Form: mineral oil particles.</p> <p>FOR-2011-12-06-1358 (Norway, 5/2024) [oljedamp] TWA 8 hours: 50 mg/m³. Form: Vapour.</p> <p>FOR-2011-12-06-1358 (Norway, 5/2024) [heksan (unntatt n-heksan)] TWA 8 hours: 250 ppm. TWA 8 hours: 1050 mg/m³.</p>
<p><input checked="" type="checkbox"/> White mineral oil (petroleum)</p> <p>Naphtha (petroleum), hydrotreated light</p> <p><input checked="" type="checkbox"/> White mineral oil (petroleum)</p> <p>Naphtha (petroleum), hydrotreated light</p>	<p>Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 7/2024) [Highly refined mineral oils with the exception of cutting fluids] TWA 8 hours: 5 mg/m³. Form: Inhalable fraction.</p> <p>Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 7/2024) [benzin extraction] TWA 8 hours: 500 mg/m³. STEL 15 minutes: 1500 mg/m³.</p> <p>Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 7/2024) [hexane – other acyclic isomers except hexane] TWA 8 hours: 400 mg/m³. STEL 15 minutes: 1200 mg/m³.</p>
<p><input checked="" type="checkbox"/> White mineral oil (petroleum)</p> <p>Naphtha (petroleum), hydrotreated light</p>	<p>Portuguese Institute of Quality (Portugal, 11/2014) [óleo mineral, puros, alta e fortemente refinado] A4. TWA 8 hours: 5 mg/m³. Form: Inhalable fraction.</p> <p>Portuguese Institute of Quality (Portugal, 11/2014) [hexano, outros isómeros] TWA 8 hours: 500 ppm. STEL 15 minutes: 1000 ppm.</p>

SECTION 8: Exposure controls/personal protection

White mineral oil (petroleum)	<p>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) [Uleiuri minerale] VLA 8 hours: 5 mg/m³. Short term 15 minutes: 10 mg/m³.</p>
White mineral oil (petroleum)	<p>Government regulation SR c. 355/2006 (Slovakia, 6/2024) [oleje minerálne] Inhalation sensitiser. TWA 8 hours: 1 mg/m³ (Mineral oils). Form: liquid aerosol, fumes. TWA 8 hours: 5 ppm (Mineral oils). Form: liquid aerosol, fumes. STEL 15 minutes: 3 mg/m³ (Mineral oils). Form: liquid aerosol, fumes. STEL 15 minutes: 15 ppm (Mineral oils). Form: liquid aerosol, fumes.</p>
Naphtha (petroleum), hydrotreated light	<p>Government regulation SR c. 355/2006 (Slovakia, 6/2024) [hexán, všetky izoméry okrem n-hexánu] Inhalation sensitiser. TWA 8 hours: 500 ppm (Hexane (isomers)). TWA 8 hours: 1800 mg/m³ (Hexane (isomers)). STEL 15 minutes: 3600 mg/m³ (Hexane (isomers)). STEL 15 minutes: 1000 ppm (Hexane (isomers)).</p>
White mineral oil (petroleum)	<p>Regulation on the protection of workers from the risks related to exposure to carcinogens, mutagens or reprotoxic substances at work (Slovenia, 4/2024) [mineralna olja] Absorbed through skin.</p> <p>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024) KTV 15 minutes: 20 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. TWA 8 hours: 5 mg/m³.</p>
Naphtha (petroleum), hydrotreated light	<p>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024) [heksan izomere] KTV 15 minutes: 1000 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. TWA 8 hours: 500 ppm. KTV 15 minutes: 3600 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. TWA 8 hours: 1800 mg/m³.</p>
White mineral oil (petroleum)	<p>National institute of occupational safety and health (Spain, 1/2024) [aceite mineral refinado] TWA 8 hours: 5 mg/m³. Form: Mist. STEL 15 minutes: 10 mg/m³. Form: Mist.</p>
Naphtha (petroleum), hydrotreated light	<p>National institute of occupational safety and health (Spain, 1/2024) [hexano (todos los isómeros excepto n-hexano)] TWA 8 hours: 500 ppm. TWA 8 hours: 1790 mg/m³. STEL 15 minutes: 1000 ppm. STEL 15 minutes: 3580 mg/m³.</p>
Inseed-oil	<p>Work environment authority Regulation 2018:1 (Sweden, 11/2022) [oil mist, incl. oil fumes] TWA 8 hours: 1 mg/m³. Form: mist and fume. STEL 15 minutes: 3 mg/m³. Form: mist and fume.</p>
White mineral oil (petroleum)	<p>Work environment authority Regulation 2018:1 (Sweden, 11/2022) [mineralolja, gammal använd] Carc. Absorbed through skin.</p> <p>Work environment authority Regulation 2018:1 (Sweden, 11/2022) [oil mist, incl. oil fumes] TWA 8 hours: 1 mg/m³. Form: mist and fume. STEL 15 minutes: 3 mg/m³. Form: mist and fume.</p>
Naphtha (petroleum), hydrotreated light	<p>Work environment authority Regulation 2018:1 (Sweden, 11/2022) [hexanes] TWA 8 hours: 200 ppm. TWA 8 hours: 700 mg/m³. STEL 15 minutes: 300 ppm.</p>

SECTION 8: Exposure controls/personal protection

<p><input checked="" type="checkbox"/> Lung oil</p> <p>Linseed-oil</p> <p>White mineral oil (petroleum)</p> <p>Naphtha (petroleum), hydrotreated light</p> <p><input checked="" type="checkbox"/> No exposure limit value known.</p>	<p>STEL 15 minutes: 1100 mg/m³.</p> <p>SUVA (Switzerland, 1/2025) [Triglyceride] STEL 15 minutes: 20 mg/m³. Form: Inhalable fraction. TWA 8 hours: 5 mg/m³. Form: Inhalable fraction.</p> <p>SUVA (Switzerland, 1/2025) [Triglyceride] STEL 15 minutes: 20 mg/m³. Form: Inhalable fraction. TWA 8 hours: 5 mg/m³. Form: Inhalable fraction.</p> <p>SUVA (Switzerland, 1/2025) TWA 8 hours: 5 mg/m³. Form: Inhalable fraction.</p> <p>SUVA (Switzerland, 1/2025) TWA 8 hours: 500 ppm. TWA 8 hours: 2000 mg/m³.</p>
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Biological exposure indices

Product/ingredient name	Exposure indices
<input checked="" type="checkbox"/> No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
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No exposure indices known.	
<input checked="" type="checkbox"/> No exposure indices known.	
No exposure indices known.	

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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

White mineral oil (petroleum)

Result

DNEL - General population - Long term - Oral
25 mg/kg bw/day
Effects: Systemic

DNEL - General population - Long term - Inhalation
34.78 mg/m³
Effects: Systemic

DNEL - General population - Long term - Dermal
93.02 mg/kg bw/day
Effects: Systemic

DNEL - Workers - Long term - Inhalation
164.56 mg/m³
Effects: Systemic

DNEL - Workers - Long term - Dermal
217.05 mg/kg bw/day
Effects: Systemic

Naphtha (petroleum), hydrotreated light

DNEL - General population - Long term - Oral
149 mg/kg bw/day
Effects: Systemic

DNEL - General population - Long term - Dermal
149 mg/kg bw/day
Effects: Systemic

DNEL - Workers - Long term - Dermal
300 mg/kg bw/day
Effects: Systemic

DNEL - General population - Long term - Inhalation
0.41 mg/m³
Effects: Systemic

DNEL - Workers - Long term - Inhalation
1.9 mg/m³
Effects: Systemic

DNEL - General population - Long term - Inhalation
178.57 mg/m³
Effects: Local

DNEL - General population - Short term - Inhalation
640 mg/m³
Effects: Local

DNEL - Workers - Long term - Inhalation
837.5 mg/m³
Effects: Local

SECTION 8: Exposure controls/personal protection

DNEL - Workers - Short term - Inhalation

1066.67 mg/m³

Effects: Local

DNEL - General population - Short term - Inhalation

1152 mg/m³

Effects: Systemic

DNEL - Workers - Short term - Inhalation

1286.4 mg/m³

Effects: Systemic

PNECs

Not available.

8.2 Exposure controls

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

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

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.

Recommendations : Wear suitable gloves tested to EN374.

< 1 hour (breakthrough time): Nitrile gloves. thickness > 0.3 mm

1 - 4 hours (breakthrough time): 4H / Silver Shield® gloves.

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.

Filter type: A

Filter type (spray application): A P

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	: Various
Odour	: Slight
Odour threshold	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	:

Ingredient name	°C	°F	Method
White mineral oil (petroleum)	218 to 800	424.4 to 1472	ASTM D 1160
Linseed-oil	316.12	601	

Flammability	: Not available.
Lower and upper explosion limit	: Lower: 1.05% (Naphtha (petroleum), hydrotreated light) Upper: 7.6% (Naphtha (petroleum), hydrotreated light)
Flash point	: Closed cup: >60°C (>140°F)
Auto-ignition temperature	:

Ingredient name	°C	°F	Method
Polyethylene wax	244.85	472.7	
Naphtha (petroleum), hydrotreated light	280 to 470	536 to 878	DIN EN 14522

Decomposition temperature	: Not available.
pH	: Not applicable.
Viscosity	: Not available.
Solubility(ies)	:
Not available.	
Solubility in water	: Not available.
Partition coefficient: n-octanol/ water	: Not applicable.
Vapour pressure	:

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
Naphtha (petroleum), hydrotreated light	42.15358	5.6	OECD 104	357.48039	47.7	OECD 104
White mineral oil (petroleum)	0.07501	0.01	OECD 104			

Relative density	: Not available.
Density	: 0.9 g/cm ³
Vapour density	: Not available.
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

Not applicable.

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** : No specific data.
- 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

White mineral oil (petroleum)

Result

Rat - Oral - LD50
>5000 mg/kg

Conclusion/Summary [Product] : Not available.

Acute toxicity estimates

N/A

Skin corrosion/irritation

Not available.

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

Not available.

Conclusion/Summary [Product] : Not available.

Respiratory corrosion/irritation

Not available.

Conclusion/Summary [Product] : Not available.

Respiratory or skin sensitization

Not available.

Skin

Conclusion/Summary [Product] : Not available.

Respiratory

Conclusion/Summary [Product] : Not available.

Germ cell mutagenicity

Not available.

SECTION 11: Toxicological information

Conclusion/Summary [Product] : Not available.

Carcinogenicity

Not available.

Conclusion/Summary [Product] : Not available.

Reproductive toxicity

Not available.

Conclusion/Summary [Product] : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name

Naphtha (petroleum), hydrotreated light

Result

STOT SE 3, H336 (Narcotic effects)

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Product/ingredient name

White mineral oil (petroleum)
Naphtha (petroleum), hydrotreated light

Result

ASPIRATION HAZARD - Category 1
ASPIRATION HAZARD - Category 1

Information on 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 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

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.
Reproductive toxicity : No known significant effects or critical hazards.

SECTION 11: Toxicological information

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

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.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Not available.

Conclusion/Summary [Product] : Not available.

12.2 Persistence and degradability

Not available.

Conclusion/Summary [Product] : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
White mineral oil (petroleum) Naphtha (petroleum), hydrotreated light	>6 2.2 to 5.2	- 10 to 2500	High High

12.4 Mobility in soil

Soil/water partition coefficient

Not available.

Results of PMT and vPvM assessment

Product/ingredient name	PMT	P	M	T	vPvM	vP	vM
White mineral oil (petroleum) Naphtha (petroleum), hydrotreated light	No No						

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
White mineral oil (petroleum) Naphtha (petroleum), hydrotreated light	No No	N/A N/A	N/A No	No No	N/A No	N/A N/A	N/A No

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

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
White mineral oil (petroleum) Naphtha (petroleum), hydrotreated light	No No						

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

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

SECTION 12: Ecological information

12.6 Endocrine disrupting properties

Not available.

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 : Avoid release to the environment. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazardous waste : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

European waste catalogue (EWC) : 08.01.11

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. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	Not regulated.	9003	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	SUBSTANCES WITH A FLASH-POINT ABOVE 60 °C AND NOT MORE THAN 100 °C (Naphtha (petroleum), hydrotreated light)	-	-
14.3 Transport hazard class(es)	-	9	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

Additional information

ADN : The product is only regulated as a dangerous good when transported in tank vessels.

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.

SECTION 14: Transport information

14.7 Maritime transport in bulk according to IMO instruments : Not relevant/applicable due to nature of the product.

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

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

Labelling : 

Synthetic polymer microparticles - Designation 78

Generic identity of polymer(s) :  907 - Polyacetals, other polyethers and epoxide resins; polycarbonates, alkyd resins, polyallyl esters and other polyesters.

Total percentage of synthetic polymer microparticles :  0.02%

 The synthetic polymer microparticles supplied is subject to conditions laid down by entry 78 of Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council.

Other EU regulations

Industrial emissions (integrated pollution prevention and control) - Air : Not listed

Industrial emissions (integrated pollution prevention and control) - Water : Not listed

Explosive precursors : Not applicable.

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.

National regulations

Austria

Limitation of the use of organic solvents : Permitted.

Belgium

Czech Republic

Storage code : III

Denmark

Fire class : III-1

SECTION 15: Regulatory information

MAL-code : 0-1

Protection based on MAL : According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:

General: Gloves must be worn for all work that may result in soiling. Apron/coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required.

In all spraying operations in which there is return spray, the following must be worn: respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.

MAL-code: 0-1

Application: When spraying in existing* spray booths, if the operator is outside the spray zone.

- Arm protectors must be worn.

During non-atomising spraying in existing* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone.

- Gas filter mask must be worn.

During all spraying where atomisation occurs in cabins or spray booths where the operator is inside the spray zone and during spraying outside a closed facility, cabin or booth.

- Full mask with combined filter, coveralls and hood must be worn.

Drying: Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc, must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone.

Polishing: When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be worn.

Caution The regulations contain other stipulations in addition to the above.

*See Regulations.

Restrictions on use : Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order regarding Young People At Work.

List of undesirable substances : Not listed

Finland

France

Social Security Code, Articles L 461-1 to L 461-7 : White mineral oil (petroleum) RG 36, RG 36bis
Naphtha (petroleum), hydrotreated light RG 84

Reinforced medical surveillance : Act of July 11, 1977 determining the list of activities which require reinforced medical surveillance: not applicable

Germany

Storage class (TRGS 510) : 10

Hazardous incident ordinance

This product is not controlled under the Germany Hazardous Incident Ordinance.

Hazard class for water : 3

SECTION 15: Regulatory information

Technical instruction on air quality control (TA Luft)

Number [Class]	Description	%
5.2.1	Total dust	4.8
5.2.2 [III]	Dusty inorganic substances	0.026
5.2.5	Organic substances	95.2
5.2.5 [I]	Organic substances	95.1

Italy

D.Lgs. 152/06 : Not determined.

Netherlands

Ministry of Social Affairs and Employment (SZW) - Carcinogenic substances and processes, mutagenic or reprotoxic substances

Ingredient name	Carcinogen	Mutagen	Reproductive toxicity - Fertility	Reproductive toxicity - Development	Harmful via breastfeeding
Naphtha (petroleum), hydrotreated light	Listed	Listed	-	-	-

Water Discharge Policy (ABM) : Z(1) Non biodegradable substances with hazardous properties for humans and the environment (carcinogenicity/ mutagenicity/ reprotoxicity/ bioaccumulative potential/ toxicity or persistence). Decontamination effort: Z

Norway

Sweden

Flammable liquid class (SRVFS 2005:10) : 3

Switzerland

VOC content : VOC (w/w): 6.6%

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.

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

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate
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
N/A = Not available
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
SGG = Segregation Group

Date of issue/Date of revision

: 06/02/2026

Date of previous issue

: 10/01/2025

Version : 1.03 19/21

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SECTION 16: Other information

vPvB = Very Persistent and Very Bioaccumulative

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

Not classified.

Full text of abbreviated H statements

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

Date of issue/ Date of revision : 06/02/2026

Date of previous issue : 10/01/2025

Version : 1.03

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Notice to reader

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

Date of issue/Date of revision : 06/02/2026 **Date of previous issue** : 10/01/2025

Version : 1.03 20/21

HARTÖL 6448-15 - All variants

Label No : 8909

