

# SAFETY DATA SHEET

## GT7 AEROSOL

The safety data sheet is in accordance with Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued	23.09.2008
Revision date	25.02.2025

#### 1.1. Product identifier

Product name	GT7 AEROSOL
Article no.	T683201, T683214

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

Product group	Aerosol.
Use of the substance / mixture	Lubricant
Professional use	Yes
Consumer use	Yes

#### 1.3. Details of the supplier of the safety data sheet

##### Downstream user

Company name	Relekta AS
Office address	Innspurten 1A
Postal address	Postboks 6169 Etterstad
Postcode	0663
City	Oslo
Country	Norway
Telephone number	+47 22 66 04 00
Fax	+47 22 66 04 01
Email	<a href="mailto:post@relekta.no">post@relekta.no</a>
Website	<a href="http://www.relekta.no">www.relekta.no</a>
Enterprise No.	NO 831 881 372

#### 1.4. Emergency telephone number

Emergency telephone	Telephone number: +47 22 59 13 00
	Description: Norwegian Poison Information Center
	Telephone number: 112
	Description: Within Sweden: Ask for Poison Information

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	Aerosol 1; H222
	Aerosol 1; H229
	Asp. Tox. 1; H304
Substance / mixture hazardous properties	Extremely flammable aerosol. Pressurized container: May explode when heated. May be fatal if swallowed and enters airways.
Additional information on classification	Substances and mixtures classified as hazardous because of the risk of aspiration (H304) need not be marked for this when this type of chemicals are sold in aerosol containers or in containers fitted with a sealed spray attachment.

### 2.2. Label elements

#### Hazard pictograms (CLP)



Signal word	Danger
Hazard statements	H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated.
Precautionary statements	P102 Keep out of reach of children. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211 Do not spray on an open flame or other ignition source. P251 Do not pierce or burn, even after use. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C / 122°F.
Supplemental label information	EUH 208 Contains (R)-p-mentha-1,8-diene. May produce an allergic reaction. Content according to Regulation (EC) No 648/2004 on detergents: ≥ 30 % aliphatic hydrocarbons. < 5 % anionic surfactants. perfume. Limonene. Cinnamal.

### 2.3. Other hazards

PBT / vPvB	The chemical contains no PBT or vPvB substances.
Hazard description, general	Vapours are heavier than air and may travel along the floor and in the bottom of containers. Vapours may be ignited by a spark, a hot surface or an ember.
Health effect	This chemical contains a substance which may penetrate the skin.

Other hazards	The chemical does not contain any known or suspected endocrine disruptors.
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## SECTION 3: Composition / information on ingredients

### 3.2. Mixtures

Substance	Identification	Classification	Contents	Notes
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclic, <2% aromatics	EC No.: 918-481-9 REACH Reg. No.: 01-2119457273-39	Asp. Tox. 1; H304 EUH 066	≤ 30 %	
White mineral oil (petroleum)	CAS No.: 8042-47-5 EC No.: 232-455-8 REACH Reg. No.: 01-2119487078-27	Asp. tox 1; H304	≤ 20 %	
(R) -p-mentha-1,8-diene	CAS No.: 5989-27-5 EC No.: 227-813-5 Index No.: 601-029-00-7 REACH Reg. No.: 01-2119529223-47	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 3; H412	< 1 %	
Propellant:				
Butane	CAS No.: 106-97-8 EC No.: 203-448-7 Index No.: 601-004-00-0 REACH Reg. No.: 01-2119474691-32	Flam. Gas 1A; H220 Press. Gas (Liq.) ; H280	≤ 40 %	
Propane	CAS No.: 74-98-6 EC No.: 200-827-9 Index No.: 601-003-00-5 REACH Reg. No.: 01-2119486944-21	Flam. Gas 1A; H220 Press. Gas (Liq.) ; H280	≤ 30 %	
Remarks, substance	CAS-nr.:106-97-8 contains < 0,1% 1,3-butadiene. This indicates that the ingredient is neither carcinogenic nor mutagenic.			
Substance comments	See section 16 for explanation of hazard statements (H) listed above.			

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General	Emergency telephone number: see section 1.4. In case of unconsciousness or severe accidents, call 112.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.
Skin contact	Remove contaminated clothing. Flush skin thoroughly with water. Get medical attention if any discomfort continues.
Eye contact	Remove contact lenses and open eyes wide apart. Immediately flush with plenty of water or eyewash solution for up to 10 minutes. By prolonged rinsing, use luke warm water to avoid damage to the eye. Get medical attention if any discomfort continues.
Ingestion	Unlikely because of the chemical condition. If the chemical is swallowed in liquid form: Rinse your mouth thoroughly with water. Do not induce vomiting. Seek

medical attention. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

## 4.2. Most important symptoms and effects, both acute and delayed

General symptoms and effects	Risk of chemical pneumonia (pneumonitis) if aspirated during and after ingestion.
Acute symptoms and effects	Inhalation: Solvent vapours are hazardous and may cause nausea, sickness and headaches. Eye contact: May cause eye irritation. Symptoms may be stinging pain and redness in the eyes. Ingestion: Not applicable due to aerosol container. May cause headaches, drowsiness and dizziness. Skin contact: Repeated exposure may cause skin dryness or cracking.
Delayed symptoms and effects	Symptoms such as coughing, breathing difficulties, vomiting or lethargy may indicate chemical pneumonitis.

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

Medical monitoring for delayed effects	Chemical pneumonia.
Other information	No specific information from the manufacturer. Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	Dry-powder, carbon dioxide (CO <sub>2</sub> ) or water mist.
Improper extinguishing media	Do not use water jet.

### 5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	Extremely flammable aerosol. Vapours are heavier than air and may spread near ground to sources of ignition. Vapours may be ignited by a spark, a hot surface or an ember.
Hazardous combustion products	May include, but is not limited to: Carbon dioxide (CO <sub>2</sub> ). Carbon monoxide (CO). Hydrocarbons.

### 5.3. Advice for firefighters

Personal protective equipment	Use compressed air equipment when the chemical is involved in fire. In case of evacuation, an approved protection mask should be used. See also section 8.
Other information	If there is no risk involved, move the containers to a safe place. If not possible, cool with water from a safe position.

## SECTION 6: Accidental release measures

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

General measures	Keep away from heat / sparks / open flames / hot surfaces. – No smoking.
Personal protection measures	Provide adequate ventilation.

Avoid inhalation of vapours and aerosols and contact with skin and eyes.  
Use protective equipment as referred to in section 8.

## 6.2. Environmental precautions

Environmental precautionary measures	Do not allow to enter into sewer, water system or soil.
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## 6.3. Methods and material for containment and cleaning up

Clean up	Aerosol cans are collected mechanically. Content of the spray can: Absorb in vermiculite, dry sand or earth and place into containers. Do not use sawdust or other combustible material. Collect in a suitable container and dispose as hazardous waste according to section 13. Wash the contaminated surface with detergent and water.
Other information	Vapours may form explosive mixtures with air on the ground.

## 6.4. Reference to other sections

Other instructions	See also sections 8 and 13.
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# SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

Handling	Provide adequate ventilation. Avoid inhalation of vapours and aerosols and contact with skin and eyes. Use protective equipment as referred to in section 8. Persons susceptible to allergic reactions should not handle this product.
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## Protective safety measures

Safety measures to prevent fire	Keep away from heat / sparks / open flames / hot surfaces. – No smoking. Take precautionary measures against static discharges. Use explosion-proof electrical/ventilating/lighting/.../equipment. Ground / bond container and receiving equipment. Use only non-sparking tools. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not puncture or burn, even when empty. Do not use near open flames or incandescent materials. Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
Advice on general occupational hygiene	Do not eat, drink or smoke during work. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash contaminated clothing before reuse.

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

Storage	Flammable compressed gas storage. Store in tightly closed original container in a dry, cool and well-ventilated place.
Conditions to avoid	Protect from sunlight. Frost. Avoid heat, flames and other sources of ignition.

## Conditions for safe storage

Advice on storage compatibility	Keep away from: Food and feed.
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Storage temperature	Value: < 50 °C
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### 7.3. Specific end use(s)

Specific use(s)	See section 1.2.
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## SECTION 8: Exposure controls / personal protection

### 8.1. Control parameters

Substance	Identification	Exposure limits	TWA Year
(R) -p-mentha-1,8-diene	CAS No.: 5989-27-5	Country of origin: Norway Limit value (8 h) : 25 ppm Limit value (8 h) : 140 mg/ m <sup>3</sup> <b>Exposure limit letter</b> Letter code: A	
Butane	CAS No.: 106-97-8	Country of origin: NORWEGIAN Limit value (8 h) : 250 ppm Limit value (8 h) : 600 mg/ m <sup>3</sup>	
Propane	CAS No.: 74-98-6	Country of origin: NORWEGIAN Limit value (8 h) : 500 ppm Limit value (8 h) : 900 mg/ m <sup>3</sup>	
Decanes and higher aliphatic hydrocarbons		Country of origin: Norwegian ADN Limit value (8 h) : 40 ppm Limit value (8 h) : 275 mg/ m <sup>3</sup>	
Oil vapour		Limit value (8 h) : 50 mg/m <sup>3</sup>	
Oil mist (mineral particles)		Limit value (8 h) : 1 mg/m <sup>3</sup>	
Control parameters comments	<p>Explanation of the notations: A = Chemicals to be treated as provoking allergic reactions or other hypersensitivity in the eyes or respiratory organs, or to be treated as provoking allergic reactions in contact with skin.</p> <p>References (laws/regulations): Norwegian regulation on exposure limits: FOR 2011-12-06 nr. 1358 Forskrift om tiltaks- og grenseverdier (sist endret gjennom FOR-2024-05-15-785).</p>		

### DNEL / PNEC

DNEL	Group: Professional Route of exposure: Long-term inhalation (systemic) Value: 164,56 mg/m <sup>3</sup> Comments: Applies to CAS-nr.: 8042-47-5.
	Group: Professional Route of exposure: Long-term dermal (systemic) Value: 217,05 mg/kg bw/day Comments: Applies to CAS-nr.: 8042-47-5.

PNEC

Group: Consumer  
Route of exposure: Long-term inhalation (systemic)  
Value: 34,78 mg/m<sup>3</sup>  
Comments: Applies to CAS-nr.: 8042-47-5.

Group: Consumer  
Route of exposure: Long-term dermal (systemic)  
Value: 93,02 mg/kg bw/day  
Comments: Applies to CAS-nr.: 8042-47-5.

Group: Consumer  
Route of exposure: Long-term oral (systemic)  
Value: 25 mg/kg bw/day  
Comments: Applies to CAS-nr.: 8042-47-5.

Group: Professional  
Route of exposure: Long-term inhalation (systemic)  
Value: 66,7 mg/m<sup>3</sup>  
Comments: Applies to CAS-nr: 5989-27-5.

Group: Professional  
Route of exposure: Long-term dermal (systemic)  
Value: 9,5 mg/kg bw/day  
Comments: Applies to CAS-nr: 5989-27-5.

Group: Consumer  
Route of exposure: Long-term inhalation (systemic)  
Value: 16,6 mg/m<sup>3</sup>  
Comments: Applies to CAS-nr: 5989-27-5.

Group: Consumer  
Value: 4,8 mg/kg bw/day  
Comments: Langtids, dermal og oral (systemisk)  
Applies to CAS-nr: 5989-27-5.

Route of exposure: Freshwater  
Value: 14 µg/l  
Comments: Applies to CAS-nr: 5989-27-5.

Route of exposure: Saltwater  
Value: 1,4 µg/l  
Comments: Applies to CAS-nr: 5989-27-5.

Route of exposure: Sewage treatment plant STP  
Value: 1,8 mg/l  
Comments: Applies to CAS-nr: 5989-27-5.

Route of exposure: Freshwater sediments  
Value: 3,85 mg/kg dw  
Comments: Applies to CAS-nr: 5989-27-5.

Route of exposure: Saltwater sediments  
Value: 0,385 mg/kg dw  
Comments: Applies to CAS-nr: 5989-27-5.

Route of exposure: Soil

Value: 0,763 mg/kg dw  
 Comments: Applies to CAS-nr: 5989-27-5.

Route of exposure: Food products  
 Value: 133 mg/kg  
 Comments: Applies to CAS-nr: 5989-27-5.

## 8.2. Exposure controls

### Precautionary measures to prevent exposure

Technical measures to prevent exposure	<p>Provide adequate ventilation. The personal protective equipment must be CE-marked and the latest version of the standards shall be used. The protective equipment and the specified standards recommended below are only suggestions, and should be selected on advice from the supplier of such equipment.</p> <p>A risk assessment of the work place/work activities (the actual risk) may lead to other control measures. The protection equipment's suitability and durability will depend on application.</p>
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### Eye / face protection

Eye protection equipment	<p>Description: Risk of splashes: Wear tight-fitting goggles or face shield.          Reference to relevant standard: EN ISO 16321-1:2022 (Eye and face protection for occupational use - Part 1: General requirements).</p>
Additional eye protection measures	<p>Eye wash facilities should be available at the work place. Either a fixed eye wash facility connected to the drinking water (preferably warm water) or a portable disposable unit.</p>

### Hand protection

Suitable gloves type	Nitrile.
Breakthrough time	Value: > 480 minutter.
Thickness of glove material	Value: 0,35mm
Hand protection equipment	<p>Description: Use protective gloves that are suitable for the application. The gloves abilities may vary among the different glove manufacturers.          Reference to relevant standard: EN ISO 374 (Protective gloves against chemicals and micro-organisms). EN ISO 21420:2020 (Protective gloves - General requirements and test methods).</p>
Additional hand protection measures	<p>Replace gloves if signs of wear and tear. Gloves must only be worn on clean, dry hands.</p>

### Skin protection

Recommended protective clothing	<p>Description: Wear appropriate protective clothing to protect against skin contact.          Reference to relevant standard: EN 14605 (Protective clothing against liquid chemicals. performance requirements for clothing with liquid-tight (Type 3) or spray-tight (Type 4) connections, including items providing protection to parts of the body only (Types PB [3] and PB [4])). NS-EN 13034 Vernetøy mot flytende kjemikalier. Ytelseskrav til vernetøy som gir begrenset beskyttelse mot flytende kjemikalier (Utstyr type 6 og type PB(6))</p>
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Additional skin protection measures	Emergency shower should be available at the workplace.
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## Respiratory protection

Recommended respiratory protection	Description: In case of insufficient ventilation or if there is a risk of inhalation of aerosols, wear respiratory protection with combination filter (Type A/P2). Reference to relevant standard: EN 14387 (Respiratory protective devices. Gas filter(s) and combined filter(s). Requirements, testing, marking). EN 143 (Respiratory protective devices - Particle filters - Requirements, testing, marking).
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## Appropriate environmental exposure control

Environmental exposure controls	Do not allow to enter into sewer, water system or soil.
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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	Aerosol.
Colour	Light yellow. Light tan.
Odour	Characteristic.
pH	Comments: Not relevant. Insoluble in water.
Melting point / melting range	Comments: Not relevant.
Boiling point / boiling range	Comments: Not specified by the manufacturer.
Flash point	Comments: Not specified by the manufacturer.
Flammability	Extremely flammable aerosol.
Explosion limit	Value: 0,7 - 9,5 vol% Comments: (propellant)
Vapour pressure	Value: 8530 hPa Comments: (propellant) Temperature: 20 °C
Vapour density	Value: > 1
Particle characteristics	Comments: Not relevant.
Relative density	Value: 0,81 Comments: Liquid Temperature: 20 °C
Density	Value: 810 kg/m <sup>3</sup> Comments: Liquid Temperature: 20 °C
Solubility	Medium: Water Comments: Insoluble.
Partition coefficient: n-octanol/water	Comments: Not relevant for a mixture.
Auto-ignition temperature	Comments: Not determined.
Decomposition temperature	Comments: Not determined.

Viscosity	Value: 1 mPa.s Comments: Liquid Temperature: 20 °C Type: Dynamic
	Value: 1 mm <sup>2</sup> /s Comments: Liquid Temperature: 20 °C Type: Kinematic

## 9.2. Other information

### Physical hazards

Content of VOC	Value: 83,8 %
	Value: 542,379 g/l

#### 9.2.2. Other safety characteristics

Evaporation rate	0,04 (BuAc = 1)
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity	May be ignited by heat, sparks or flames.
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### 10.2. Chemical stability

Stability	Stable under normal temperature conditions and recommended use.
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### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Can form explosive gas-air mixtures. May occur if the chemical is exposed to conditions to be avoided (see section 10.4).
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### 10.4. Conditions to avoid

Conditions to avoid	Pressurized container: Do not pierce or burn, even after use. Avoid heat, flames and other sources of ignition. Do not expose to temperatures above 50 °C. Protect from direct sunlight. Avoid frost.
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### 10.5. Incompatible materials

Materials to avoid	Not specified by the manufacturer.
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### 10.6. Hazardous decomposition products

Hazardous decomposition products	None under normal conditions. See also section 5.2.
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## SECTION 11: Toxicological information

## 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Other toxicological data	<p>Hydrocarbons C10-C13 – EC-No: 918-481-9          Oral LD50 Equivalent to OECD 401 &gt; 15000 mg/kg body weight Rat (male / female) Experimental value          Dermal LD50 Equivalent to OECD 402 &gt; 3160 mg/kg body weight 24 hours Rabbit (male / female) Read-across          Inhalation (vapour) LC50 Equivalent to OECD 403 &gt; 6.1 mg/l air 4 h Rat (male / female) Read-across          Inhalation (aerosol) LC50 Equivalent to OECD 403 &gt; 5.6 mg/l 4 h Rat (male / female) Read-across</p> <p>White mineral oil – CAS-No: 8042-47-5          Oral LD50 Equivalent to OECD 401 &gt; 5000 mg/kg body weight Rat (male / female) Read-across          Dermal LD50 Equivalent to OECD 402 &gt; 2000 mg/kg body weight 24 hours Rabbit (male / female) Read-across          Inhalation (aerosol) LC50 Equivalent to OECD 403 &gt; 5 mg/l 4 hours Rat (male / female) Read-across</p> <p>(R)-p-Menta-1,8-diene – CAS no: 5989-27-5          Oral LD50 OECD 423 &gt; 2000 mg/kg body weight Rat (female) Experimental value          Dermal LD50 Equivalent to OECD 402 &gt; 5000 mg/kg body weight 24 hours Rabbit Read-across          Inhalation Data deficient</p>
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### Other information regarding health hazards

Assessment of acute toxicity, classification	Based on available data, the classification criteria are not met.
Assessment of skin corrosion / irritation, classification	Based on available data, the classification criteria are not met.
Assessment of eye damage or irritation, classification	Based on available data, the classification criteria are not met.
Assessment of respiratory sensitisation, classification	Based on available data, the classification criteria are not met.
Assessment of skin sensitisation, classification	Based on available data, the classification criteria are not met.
General	<p>Corrosive/Irritant:</p> <p>Hydrocarbons C10-C13 EC no: 918-481-9          Eye Not irritating Equivalent to OECD 405 24 48 72 hours Rabbit Read-across Single treatment without rinsing          Skin Not irritating Equivalent to OECD 404 4 h 24 48 72 hours Rabbit Read-across</p> <p>White mineral oil CAS no: 8042-47-5          Eye Not irritating Equivalent to OECD 405 24 48 72 hours Rabbit Read-across Single treatment          Skin Not irritating Equivalent to OECD 404 24 weeks 24 48 72 hours Rabbit Read-across</p> <p>(R)-p-Menta-1,8-diene CAS no: 5989-27-5          Eye Not irritating OECD 405 24 48 72 hours Rabbit Experimental value Single</p>

treatment without rinsing  
Skin Non-irritant OECD 404 4 h 24 48 72 h Rabbit Experimental value  
Skin irritant category 2 Annex VI

Skin and respiratory sensitizer:

Hydrocarbons C10-C13 EC no: 918-481-9  
Skin Non-sensitizing Equivalent to OECD 406 guinea pig (male/female)  
Read-across

White mineral oil CAS no: 8042-47-5  
Skin Non-sensitizing Equivalent to OECD 406 guinea pig (male) Read-across

(R)-p-Menta-1,8-diene CAS no: 5989-27-5  
Skin (on ears) Sensitizing OECD 429 Mouse (female) Experimental value

Specific target organ toxicity:

Hydrocarbons C10-C13 EC no: 918-481-9  
Oral (gastric tube) NOAEL EPA OPP 82-1  $\geq$  500 mg/kg body weight/day No adverse systemic effects 13 weeks (7 days/week) Rat (male/female) Experimental value  
Skin data waiving  
Inhalation (vapour) NOAEC systemic effects Equivalent to OECD 413 6000 mg/m<sup>3</sup> air No adverse systemic effects 13 weeks (6h/day 5 days/week) Rat (male/female) Read-across  
White mineral oil CAS no: 8042-47-5  
Oral (diet) NOAEL OECD 453  $\geq$  1200 mg/kg body weight/day No effect 24 months Rat (male/female) Read-across  
Dermal NOAEL systemic effects OECD 411  $\geq$  2000 mg/kg body weight/day No adverse systemic effects 13 weeks (daily) Rat (male/female) Read-across  
Dermal NOAEL local effects OECD 411  $<$  125 mg/kg bw/day Skin (no effect) 13 weeks (daily) Rat (male / female) Read-across  
Inhalation (aerosol) NOEL Equivalent to OECD 412 50 mg/m<sup>3</sup> Lungs (no effect) 4 weeks (6h / day 5 days / week) Rat (male / female) Read-across  
Inhalation (aerosol) LOEL Equivalent to OECD 412 210 mg/m<sup>3</sup> Lungs (weight changes) 4 weeks (6h / day 5 days / week) Rat (male / female) Read-across

(R)-p-Menta-1,8-diene CAS-nr: 5989-27-5  
Oral (stomach tube) NOAEL Equivalent to OECD 407 825 mg/kg bw/day No effect 2.5 weeks (5 days/week) Rat (male) Experimental value  
Oral (stomach tube) NOAEL Equivalent to OECD 407 1650 mg/kg body weight/day No effect 2.5 weeks (5 days/week) Rat (female) Experimental value

Mutagenic properties (in vitro):

Hydrocarbons C10-C13 EC no: 918-481-9  
Negative with metabolic activation negative without metabolic activation OECD 471 Bacteria (S. typhimurium and E. coli) No effect Experimental value  
Negative with metabolic activation negative without metabolic activation Equivalent to OECD 473 Human lymphocytes No effect Experimental value

White mineral oil CAS no: 8042-47-5

Negative with metabolic activation Equivalent to OECD 471 Bacteria (*S. typhimurium*) No effect Read-across  
Negative with metabolic activation negative without metabolic activation OECD 473 Chinese hamster ovary (CHO) No effect Read-across

(R)-p-Menta-1,8-diene CAS no: 5989-27-5  
Negative with metabolic activation negative without metabolic activation  
Equivalent to OECD 476 Mouse (lymphoma L5178Y cells) Experimental value  
Negative with metabolic activation negative without metabolic activation OECD 471 Bacteria (*S. typhimurium*) Experimental value

Mutagenic properties (in vivo):

Hydrocarbons C10-C13 EC no: 918-481-9  
Negative (Oral gavage) Equivalent to OECD 474 Mouse (male/female) No effect  
Experimental value Single treatment

White mineral oil CAS no: 8042-47-5  
Negative (intraperitoneal) OECD 474 Mouse (male/female) Bone marrow (no effect) Read-across Single intraperitoneal injection

(R)-p-Menta-1,8-diene CAS no: 5989-27-5  
Negative (Oral gavage) 3 h - 26 h Rat (male) Kidney (no effect) Experimental value Single treatment

Carcinogen:

Hydrocarbons C10-C13 EC no: 918-481-9  
Dermal NOAEL Carcinogenic toxicity study 50% No carcinogenic effect 52 weeks  
Mouse (male) Experimental value

White mineral oil CAS no: 8042-47-5  
Inhalation (aerosol) Dose level Carcinogenic toxicity study 100 mg/m<sup>3</sup> No carcinogenic effect 68 weeks (6h/day 7 days/week) Mouse (male) Read-across  
Dermal NOEL OECD 453 ≥ 75 µl/week No carcinogenic effect 104 weeks (3 times/week) Mouse (male) Read-across  
Oral (diet) NOAEL OECD 453 ≥ 1200 mg/kg bw/day No carcinogenic effect 24 months Rat (male/female) Read-across

(R)-p-Menta-1,8-diene CAS No: 5989-27-5  
Oral NOAEL Equivalent to OECD 451 250 mg/kg body weight/day No carcinogenic effect 103 weeks (5 days/week) Mouse (male) Experimental value  
Oral NOAEL Equivalent to OECD 451 500 mg/kg body weight/day No carcinogenic effect 103 weeks (5 days/week) Mouse (female) Experimental value

Reproductive toxicity:

Hydrocarbons C10-C13 EC No: 918-481-9  
Developmental toxicity (Inhalation vapour) NOAEC Equivalent to OECD 414 ≥ 5220 mg/m<sup>3</sup> air 10 days (gestation daily) Rat No effect Read-across  
Maternal toxicity (oral gavage) NOAEC Equivalent to OECD 414 ≥ 5220 mg/m<sup>3</sup> air 10 days Rat No effect Read-across

	<p>White mineral oil CAS no.: 8042-47-5          Developmental toxicity (Oral gavage) NOAEL Equivalent to OECD 414 &gt; 5000 mg/kg bw/day 14 days (gestation daily) Rat No effect Read-across          Effects on fertility (dermal) NOAEL Equivalent to OECD 415 ≥ 2000 mg/kg bw/day ≥ 13 weeks (5 days/week) Rat (male/female) No effect Read-across</p>
	<p>(R)-p-Menta-1,8-diene CAS no.: 5989-27-5          Developmental toxicity (Oral) NOAEL Developmental toxicity study &gt; 1000 mg/kg bw/day 13 days (1x/day) Rabbit No effect Experimental value</p>
Assessment of germ cell mutagenicity, classification	Based on available data, the classification criteria are not met.
Assessment of carcinogenicity, classification	Based on available data, the classification criteria are not met.
Assessment of reproductive toxicity, classification	Based on available data, the classification criteria are not met.
Assessment of specific target organ toxicity - single exposure, classification	Based on available data, the classification criteria are not met.
Assessment of specific target organ toxicity - repeated exposure, classification	Based on available data, the classification criteria are not met.
Assessment of aspiration hazard, classification	May be fatal if swallowed and enters airways. Substances and mixtures classified as hazardous because of the risk of aspiration (H304) need not be marked for this when this type of chemicals are sold in aerosol containers or in containers fitted with a sealed spray attachment.

## Symptoms of exposure

In case of ingestion	Not likely to be ingested. May cause nausea, headache, dizziness and intoxication. Risk of chemical pneumonia (pneumonitis) if aspirated during and after ingestion. If, by vomiting, the chemical reaches the lungs, life-threatening chemical pneumonia may develop. Symptoms such as coughing, breathing difficulties, vomiting or lethargy may indicate chemical pneumonitis.
In case of skin contact	Repeated exposure may cause skin dryness or cracking.
In case of inhalation	Solvent vapours are hazardous and may cause nausea, sickness and headaches.
In case of eye contact	May cause eye irritation. Symptoms may be stinging pain and redness in the eyes.

## 11.2 Other information

Endocrine disruption	The chemical does not contain any known or suspected endocrine disruptors.
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## SECTION 12: Ecological information

### 12.1. Toxicity

Ecotoxicity	<p>The chemical is not classified as harmful to the environment.          Hydrocarbons C10-C13 – EC-nr: 918-481-9          Acute toxicity fish LL50 OECD 203 &gt; 1000 mg/l 96 h <i>Oncorhynchus mykiss</i>          Semi-static system Fresh water Experimental value; Nominal concentration</p>
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Acute toxicity crustaceans EL50 OECD 202 > 1000 mg/l 48 h Daphnia magna  
 Static system Fresh water Experimental value; Nominal concentration  
 Toxicity algae and other aquatic plants EL50 OECD 201 > 1000 mg/l 72 h  
 Pseudokirchneriella subcapitata Static system Fresh water Experimental value;  
 Growth rate  
 NOELR OECD 201 1000 mg/l 72 h Pseudokirchneriella subcapitata Static system  
 Fresh water Experimental value; Growth rate  
 Toxicity aquatic microorganisms EL50 > 1000 mg/l 48 h Tetrahymena pyriformis  
 Fresh water QSAR

White mineral oil – CAS no: 8042-47-5

Acute toxicity fish LL50 OECD 203 > 100 mg/l WAF 96 h Oncorhynchus mykiss  
 Static system Fresh water Experimental value; Nominal concentration  
 Acute toxicity crustaceans LL50 OECD 202 > 100 mg/l WAF 48 h Daphnia magna  
 Static system Fresh water Experimental value; Nominal concentration  
 Toxicity algae and other aquatic plants NOEL OECD 201 ≥ 100 mg/l WAF 72 h  
 Pseudokirchneriella subcapitata Static system Fresh water Weight of evidence;  
 Growth rate  
 Long-term toxicity fish NOEL ≥ 1000 mg/l 28 days Oncorhynchus mykiss  
 Freshwater QSAR; Nominal concentration  
 Long-term toxicity aquatic crustaceans NOEL Equivalent to OECD 211 10 mg/l  
 WAF 21 days Daphnia magna Semi-static system Freshwater Read-across; GLP

(R)-p-Menta-1,8-diene – CAS no: 5989-27-5

Acute toxicity fish LC50 Equivalent to OECD 203 720 µg/l 96 h Pimephales  
 promelas Flow-through system Freshwater Experimental value; Measured  
 concentration  
 Acute toxicity crustaceans EC50 OECD 202 0.31 mg/l 48 h Daphnia magna  
 Semi-static system Freshwater Experimental value; Measured concentration  
 Toxicity algae and other aquatic plants ErC50 OECD 201 0.32 mg/l 72 h  
 Pseudokirchneriella subcapitata Static system Fresh water Experimental value;  
 Measured concentration  
 EC10 OECD 201 0.17 mg/l 72 h Pseudokirchneriella subcapitata Static system  
 Fresh water Experimental value; Growth rate  
 Long-term toxicity fish NOEC OECD 212 0.37 mg/l 8 days Pimephales promelas  
 Semi-static system Fresh water Experimental value; Measured concentration  
 Long-term toxicity aquatic crustaceans EC10 OECD 211 153 µg/l 21 days  
 Daphnia magna Semi-static system Fresh water Experimental value; Measured  
 concentration  
 Toxicity aquatic microorganisms EC50 OECD 209 209 mg/l 3 h Activated sludge  
 Static system Fresh water Experimental value; Nominal concentration

## 12.2. Persistence and degradability

Persistence and degradability  
 description/evaluation

Contains components which are not biodegradable.  
 Hydrocarbons C10-C13 – EC no: 918-481-9  
 Biodegradation in water: OECD 301F 80%; GLP 28 days Read-across  
 Biodegradation in soil: Equivalent to OECD 304A 60% - 63%; Oxygen consumption  
 61 days Read-across

White mineral oil – CAS no: 8042-47-5

Biodegradation in water: OECD 301F 31%; GLP 28 days Read-across

(R)-p-Menta-1,8-diene – CAS no: 5989-27-5  
 Biodegradation in water: OECD 301D 80%; GLP 28 days Experimental value

Phototransformation air (DT50 air)  
 AOPWIN v1.92 0.9 t 1.5E6 /cm<sup>3</sup> Calculated value

### 12.3. Bioaccumulative potential

Bioaccumulation, evaluation	Inneholder stoffer som anses å være bioakkumulerende.
Bioaccumulation, comments	<p>Hydrocarbons C10-C13 – EC no: 918-481-9          Log Kow: 3.2 - 7.2 Estimated value</p> <p>White mineral oil – CAS no: 8042-47-5          BCF other aquatic organisms: BCF-BCFBAF v3.01 1216 l/kg Fresh weight          Estimated value          Log Kow: 5.2 Experimental value</p> <p>(R)-p-Menta-1,8-diene – CAS no: 5989-27-5          BCF fish: BCF-BCFBAF v3.01 865 l/kg Fresh weight Fish QSAR          Log Kow: Equivalent to OECD 117 4.4 37°C Experimental value</p>

### 12.4. Mobility in soil

Mobility	<p>Insoluble in water.          Contains components that adsorb into soil.          Contains component(s) with the potential for mobility in soil.</p>
Mobility, comments	<p>Hydrocarbons C10-C13 – EC no: 918-481-9          Log Koc: 4.2 Read-across          Percentage distribution: Mackay Level III 66% 0% 23% 9.6% 1.7% Calculated value</p> <p>White mineral oil – CAS no: 8042-47-5          Log Koc: SRC PCKOCWIN v2.0 2.6 Calculated value          Percentage distribution: Fugacity Model Level III 32% 0.87% 1.3% 66% Calculated value</p> <p>(R)-p-Menta-1,8-diene – CAS no: 5989-27-5          Log Koc: SRC PCKOCWIN v2.0 3.0 - 3.8 Calculated value</p>

### 12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	The chemical contains no PBT or vPvB substances.
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### 12.6. Endocrine disrupting properties

Endocrine disrupting properties	The chemical does not contain any known or suspected endocrine disruptors.
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### 12.7. Other adverse effects

Ozone depletion potential	Comments: The chemical contains no substances classified as hazardous to the ozone layer.
Additional ecological information	The chemical contains no substances which are known to contribute to the greenhouse effect.

Danger of drinking water pollution (ground water). Applies to CAS-nr: 8042-47-5 & EC-nr: 918-481-9.  
Do not allow to enter into sewer, water system or soil.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Appropriate methods of disposal for the chemical	Disposed of as hazardous waste by approved contractor. The waste code (EWC-Code) is intended as a guide. The code must be chosen by the user, if the use differs from the one mentioned below.
EWC waste code	EWC waste code: 130208 other engine, gear and lubricating oils Classified as hazardous waste: Yes
EWL packing	EWC waste code: 150110 packaging containing residues of or contaminated by dangerous substances Classified as hazardous waste: Yes
NORSAS	7055 Aerosol cans.
Other information	Do not empty into drains.

## SECTION 14: Transport information

Dangerous goods	Yes
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### 14.1. UN number

ADR/RID/ADN	1950
IMDG	1950
ICAO/IATA	1950

### 14.2. UN proper shipping name

ADR/RID/ADN	AEROSOLBEHOLDERE
IMDG	AEROSOLS
ICAO/IATA	AEROSOLS, FLAMMABLE

### 14.3. Transport hazard class(es)

ADR/RID/ADN	2.1
IMDG	2.1
ICAO/IATA	2.1

### 14.4. Packing group

Comments	Not relevant.
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### 14.5. Environmental hazards

IMDG Marine pollutant	No
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## 14.6. Special precautions for user

Special safety precautions for user	Combination packaging: not more than 1 litre per inner packaging for liquids. A package shall not weigh more than 30 kg (gross mass).
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## 14.7. Maritime transport in bulk according to IMO instruments

Transport in bulk (yes/no)	No
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## IMDG Other information

EmS	F-D, S-U
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## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture

VOC	VOC percent by weight: 83,8 VOC value: 542,379 g/l
References (laws/regulations)	Regulation (EC) No 1907/2006 on the registration, evaluation, authorization and restriction of chemicals (REACH Regulation), with later amendments. Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP-regulation) with later amendments. FOR 2004-06-01 No. 922: Norwegian regulation regarding restrictions on the use of health-hazardous chemicals and other products (Produktforskriften), as amended; § § 2-12, 2-14 Detergents. Norwegian regulation on dangerous goods: FOR 2009-04-01 nr 384: Forskrift om landtransport av farlig gods med senere endringer, Direktoratet for samfunnssikkerhet og beredskap. Norwegian regulation on waste, 01.06.2004 no. 930, with later amendments. Norwegian regulation FOR-1996-03-01 no. 229 with later amendments: Forskrift om aerosolbeholdere. Swedish regulation on dangerous goods: Lag (2006:263) om transport av farligt gods, med senere ändringar. Swedish regulations on waste "Avfallsförordning (2020:614)" with later amendments.

### 15.2. Chemical safety assessment

Chemical safety assessment performed	No
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## SECTION 16: Other information

Supplier's notes	The information contained in this SDS must be made available to all those who handle the product.
List of relevant H-phrases (Section 2 and 3)	EUH 066 Repeated exposure may cause skin dryness or cracking. H220 Extremely flammable gas. H222 Extremely flammable aerosol. H226 Flammable liquid and vapour. H229 Pressurised container: May burst if heated. H280 Contains gas under pressure; may explode if heated.

	<p>H304 May be fatal if swallowed and enters airways.</p> <p>H315 Causes skin irritation.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H400 Very toxic to aquatic life.</p> <p>H412 Harmful to aquatic life with long lasting effects.</p>
CLP classification, comments	<p>Aerosol 1; H222, H229; test</p> <p>Other hazard classes: Calculation method.</p>
Key literature references and sources for data	<p>Suppliers Safety data sheet dated: 23.12.2024.</p>
Abbreviations and acronyms used	<p>ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways</p> <p>ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road</p> <p>DNEL: Derived No Effect Level</p> <p>EWC: European Waste Code (a code from the EU's common classification system for waste)</p> <p>EL50: The effective concentration of substance (slightly soluble) that causes 50% of the maximum response.</p> <p>IATA: The International Air Transport Association</p> <p>ICAO: The International Civil Aviation Organisation</p> <p>IMDG: The International Maritime Dangerous Goods Code</p> <p>IMO: International Maritime Organization</p> <p>LC50: Median concentration lethal to 50% of a test population.</p> <p>LD50: Lethal dose, is the amount of a substance given to a group of test animals, which causes the death of 50%.</p> <p>LL50: Lethal Loading rate. The effective concentration of substance that causes 50% of the maximum response for poorly water soluble substances.</p> <p>NOEL: No Observed Effect Level. The highest tested dose or exposure level at which, in a study, no statistically significant effect is observed in the exposed population compared with an appropriate control group.</p> <p>PBT: Persistent, Bioaccumulative and Toxic</p> <p>RID: The Regulations concerning the International Carriage of Dangerous Goods by Rail</p> <p>vPvB: very Persistent and very Bioaccumulative</p> <p>VOC: Volatile Organic Compounds</p>
Information added, deleted or revised	<p>Sections being revised since previous version: 1-16</p>
Checking quality of information	<p>This SDS is quality controlled by Kiwa Kompetanse AS in Norway, certified according to the Quality Management System requirements specified in ISO 9001:2015.</p>
Version	<p>9</p>