

# Safety Data Sheet

## Rå Linolje

According to Regulation (EU) 2015/830, 2020/878 (REACH Annex II)  
Issue date: 12/18/2020 Revision date: 12/18/2020 Version: 1.0

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

#### 1.1. Product identifier

Product name : Rå Linolje  
Vaporizer : Aerosol

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

##### Relevant identified uses

Main use category : Professional use  
Use of the substance/mixture : Linseed oil

##### Uses advised against

No additional information available

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

AS TERJAN  
Ole Deviks vei 16B  
N-0666 OSLO - Norway  
T 22 65 53 30  
[terjan@terjan.no](mailto:terjan@terjan.no) - [www.terjan.no](http://www.terjan.no)

#### 1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Newcastle Unit)	Claremont Place Newcastle-upon-Tyne, Newcastle	+44 191 2606182 +44 191 2606180	Hours of operation: 24hrs

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Aerosol 1 H222;H229  
Skin Irrit. 2 H315  
Aquatic Chronic 2 H411

Full text of hazard classes and H-statements : see section 16

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS02

GHS07

GHS09

Signal word (CLP) :

Danger

Hazardous ingredients :

heptane; n-heptane

Hazard statements (CLP) :

H222 - Extremely flammable aerosol.  
H229 - Pressurised container: May burst if heated.  
H315 - Causes skin irritation.  
H411 - Toxic to aquatic life with long lasting effects.  
Precautionary statements (CLP) :  
P210 - Keep away from heat/sparks/open flames/hot surfaces. — No smoking.  
P211 - Do not spray on an open flame or other ignition source.  
P251 - Pressurized container: Do not pierce or burn, even after use.  
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves.

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### 2.3. Other hazards

Other hazards which do not result in classification : Vapours may cause drowsiness and dizziness. Repeated and prolonged exposure to solvents may cause permanent damage to the central nervous system and internal organs such as the liver and kidneys.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	Conc. (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
linseed oil	(CAS-No.) 8001-26-1 (EC-No.) 232-278-6 (REACH-no) N/A	40 – 70	Not classified
butane (Note C)(Note U)	(CAS-No.) 106-97-8 (EC-No.) 203-448-7 (EC Index-No.) 601-004-00-0 (REACH-no) 01-2119474691-32	15 – 40	Flam. Gas 1A, H220 Press. Gas (Liq.), H280
isobutane (Note C)(Note U)	(CAS-No.) 75-28-5 (EC-No.) 200-857-2 (EC Index-No.) 601-004-00-0 (REACH-no) 01-2119485395-27	15 – 40	Flam. Gas 1A, H220 Press. Gas
propane (Note U)	(CAS-No.) 74-98-6 (EC-No.) 200-827-9 (EC Index-No.) 601-003-00-5 (REACH-no) 01-2119486944-21	15 – 40	Flam. Gas 1A, H220 Press. Gas (Comp.), H280
heptane; n-heptane (Note C)	(CAS-No.) 142-82-5 (EC-No.) 205-563-8 (EC Index-No.) 601-008-00-2 (REACH-no) 01-2119457603-38	5 – 15	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Note C : Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

Note U (Table 3): When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case.

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Allow affected person to breathe fresh air. Allow the patient to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Rinse mouth. Drink a few glasses of water or milk. Get medical advice/attention if you feel unwell.

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

Symptoms/effects	: Repeated and prolonged exposure to solvents may cause permanent damage to the central nervous system and internal organs such as the liver and kidneys.
Symptoms/effects after inhalation	: High concentration of vapours may induce: headache, nausea, dizziness.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: May cause slight irritation.
Symptoms/effects after ingestion	: Ingestion is not a likely route of exposure, the product is supplied as an aerosol.

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

Treat symptomatically. In all cases of doubt, or when symptoms persist, seek medical attention.

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire. Foam. Dry powder. Carbon dioxide. Water spray. Sand. If possible, remove containers exposed to heat or cool with water.
- Unsuitable extinguishing media : Do not use a heavy water stream.

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

- Fire hazard : Extremely flammable aerosol. Vapours are heavier than air and may spread near ground to sources of ignition.
- Explosion hazard : Do not pierce or burn, even after use. Containers can burst violently when heated, due to excess pressure build-up.
- Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon dioxide. Carbon monoxide.

#### 5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
- Protection during firefighting : Do not enter fire area without proper personal protective equipment, including respiratory protection (EN137).

### SECTION 6: Accidental release measures

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

- General measures : No open flames. No smoking. No flames, no sparks. Eliminate all sources of ignition. Use special care to avoid static electric charges. Use non-sparking tools. Concerning personal protective equipment to use, see section 8.

##### 6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

- Protective equipment : Equip cleanup and emergency crew with proper protection.
- Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Hose down area with water.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Prevent the build-up of electrostatic charge. Provide good ventilation in process area to prevent formation of vapour. Wear appropriate personal protective equipment - see Section 8. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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

- Storage conditions : Store in a well-ventilated place. Keep cool. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Protect against frost.
- Incompatible materials : Sources of ignition. Direct sunlight. Refer to Section 10 on Incompatible Materials.
- Storage temperature : 10 – 50 °C

#### 7.3. Specific end use(s)

For professional use only. Dental materials.

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

butane (106-97-8)		
United Kingdom	Local name	Butane
United Kingdom	WEL TWA (OEL TWA) [1]	1450 mg/m <sup>3</sup>
United Kingdom	WEL TWA (OEL TWA) [2]	600 ppm
United Kingdom	WEL STEL (OEL STEL)	1810 mg/m <sup>3</sup>
United Kingdom	WEL STEL (OEL STEL) [ppm]	750 ppm
United Kingdom	Remark (WEL)	Carc (Capable of causing cancer and/or heritable genetic damage, only applies if Butane contains more than 0.1% of buta-1,3-diene)
United Kingdom	Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

heptane; n-heptane (142-82-5)		
United Kingdom	Local name	n-Heptane
United Kingdom	WEL TWA (OEL TWA) [1]	2085 mg/m <sup>3</sup>
United Kingdom	WEL TWA (OEL TWA) [2]	500 ppm
United Kingdom	Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

heptane; n-heptane (142-82-5)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	300 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	2085 mg/m <sup>3</sup>
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	149 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	447 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	149 mg/kg bodyweight/day

#### 8.2. Exposure controls

##### Appropriate engineering controls:

Ensure good ventilation of the work station. Do not exceed the occupational exposure limits (OEL).

##### Hand protection:

Wear protective gloves. Nitrile rubber gloves. Butylrubber protective gloves. Layer thickness : >0,10mm. Breakthrough time : 6 (> 480 minutes). STANDARD EN 374.

##### Eye protection:

Use splash goggles when eye contact due to splashing is possible. STANDARD EN 166.

##### Respiratory protection:

Not required with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Wear a respirator conforming to EN140 with Type A/P2 filter or better

##### Other information:

Do not eat, drink or smoke during use. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the protective equipment.

### SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Appearance	: aerosol.
Colour	: Colourless.
Odour	: None.
Odour threshold	: Not relevant.
pH	: Not determined.

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Relative evaporation rate (butylacetate=1)	: Not determined.
Melting point	: Not determined.
Freezing point	: Not determined.
Boiling point	: Not determined.
Flash point	: Not determined.
Critical temperature	: Not determined.
Auto-ignition temperature	: Not determined.
Decomposition temperature	: Not determined.
Flammability (solid, gas)	: No data available
Vapour pressure	: Not determined.
Vapour pressure at 50 °C	: Not determined.
Critical pressure	: Not determined.
Relative vapour density at 20 °C	: Not determined.
Relative density	: Not determined.
Density	: Not determined.
Solubility	: Miscible with water.
Partition coefficient n-octanol/water (Log Pow)	: Not relevant.
Viscosity, kinematic	: Not determined.
Viscosity, dynamic	: Not determined.
Explosive properties	: Pressurised container: May burst if heated.
Oxidising properties	: Extremely flammable aerosol.
Explosive limits	: Not determined.

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Extremely flammable aerosol. Pressurised container: May burst if heated.

### 10.2. Chemical stability

Stable under normal conditions of use.

### 10.3. Possibility of hazardous reactions

Vapours are heavier than air and may spread near ground to sources of ignition.

### 10.4. Conditions to avoid

Direct sunlight. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

None to our knowledge.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Additional information	: Based on available data, the classification criteria are not met

<b>butane (106-97-8)</b>	
LC50 Inhalation - Rat	658 mg/l/4h LC50 Inhalation - Rat (Vapours)

<b>isobutane (75-28-5)</b>	
LC50 Inhalation - Rat (Vapours)	1237 mg/l/4h 2h

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propane (74-98-6)	
LD50 oral rat	5000 mg/kg
LC50 Inhalation - Rat (Vapours)	1237 mg/l/4h

heptane; n-heptane (142-82-5)	
LD50 oral rat	> 17000 mg/m <sup>3</sup>
LD50 dermal rabbit	3000 mg/kg
LC50 Inhalation - Rat (Vapours)	60 mg/l/4h

linseed oil (8001-26-1)	
LD50 oral rat	> 15000 mg/kg

Skin corrosion/irritation	: Causes skin irritation. pH: Not determined.
Serious eye damage/irritation	: Not classified pH: Not determined.
Additional information	: Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-single exposure	: Not classified
Additional information	: High concentration of vapours may induce: headache, nausea, dizziness Inhalation of vapours may cause respiratory irritation
STOT-repeated exposure	: Not classified
Additional information	: Repeated and prolonged exposure to solvents may cause permanent damage to the central nervous system and internal organs such as the liver and kidneys.
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met

Rå Linolje	
Vaporizer	Aerosol
Viscosity, kinematic	Not determined.

## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

butane (106-97-8)	
LC50 - Fish [1]	24.11 mg/l (96 hours)
EC50 - Crustacea [1]	14.22 mg/l (48 hours - Daphnia magna)
ErC50 algae	7.71 mg/l (96 hours)

isobutane (75-28-5)	
LC50 - Fish [1]	9.89 mg/l
EC50 - Crustacea [1]	8.96 mg/l

propane (74-98-6)	
LC50 - Fish [1]	16.9 g/l 96 hours

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EC50 - Crustacea [1]	16.3 g/l (48 hours - Daphnia magna)
ErC50 algae	11.3 mg/l

### heptane; n-heptane (142-82-5)

LC50 - Fish [1]	> 100 mg/l 96 h (Oncorhynchus kisutch)
EC50 - Crustacea [1]	> 50 mg/l (48 hours - Daphnia magna)
ErC50 algae	200 mg/l

### 12.2. Persistence and degradability

#### Rå Linolje

Persistence and degradability	The product is easily biodegradable.
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### isobutane (75-28-5)

Biodegradation	100 % 385,5 h
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### linseed oil (8001-26-1)

Persistence and degradability	Readily biodegradable.
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### 12.3. Bioaccumulative potential

#### Rå Linolje

Partition coefficient n-octanol/water (Log Pow)	Not relevant.
Bioaccumulative potential	May accumulate in soil and water systems.

### butane (106-97-8)

BCF - Fish [1]	33.88
Partition coefficient n-octanol/water (Log Pow)	2.89

### isobutane (75-28-5)

Bioconcentration factor (BCF REACH)	26.92
Partition coefficient n-octanol/water (Log Pow)	2.82

### propane (74-98-6)

Bioconcentration factor (BCF REACH)	13.18
Partition coefficient n-octanol/water (Log Pow)	2.36

### heptane; n-heptane (142-82-5)

Bioconcentration factor (BCF REACH)	776.25
Partition coefficient n-octanol/water (Log Pow)	4.66

### 12.4. Mobility in soil

#### Rå Linolje

Ecology - soil	No data available.
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### 12.5. Results of PBT and vPvB assessment

#### Rå Linolje

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

### 12.6. Other adverse effects

Other adverse effects : None to our knowledge.  
Additional information : Avoid release to the environment.

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According to Regulation (EU) 2015/830, 2020/878 (REACH Annex II)

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Regional legislation (waste)	: Dispose as hazardous waste.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to a hazardous or special waste collection point.
Additional information	: The given LoW-code is a guiding, and the code depends on how the waste is formed. User must evaluate the choice of correct code.
Ecology - waste materials	: Avoid release to the environment.
European List of Waste (LoW) code	: 16 05 04* - gases in pressure containers (including halons) containing dangerous substances

### SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID /

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
UN 1950	UN 1950	UN 1950	UN 1950	UN 1950
<b>14.2. UN proper shipping name</b>				
AEROSOLS (butane ; isobutane ; propane ; heptane ; n-heptane)	AEROSOLS (butane ; isobutane ; propane)	Aerosols, flammable (butane ; isobutane ; propane)	AEROSOLS (butane ; isobutane ; propane)	AEROSOLS (butane ; isobutane ; propane)
<b>14.3. Transport hazard class(es)</b>				
2.1	2.1	2.1	2.1	2.1
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes
No supplementary information available				

#### 14.6. Special precautions for user

##### Overland transport

Classification code (ADR)	: 5F
Special provisions (ADR)	: 190, 327, 344, 625
Limited quantities (ADR)	: 1I
Excepted quantities (ADR)	: E0

##### Transport by sea

Special provisions (IMDG)	: 63, 190, 277, 327, 344, 381, 959
EmS-No. (Fire)	: F-D
EmS-No. (Spillage)	: S-U

##### Air transport

PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA)	: Y203
Special provisions (IATA)	: A145, A167, A802

##### Inland waterway transport

Classification code (ADN)	: 5F
Special provisions (ADN)	: 190, 327, 344, 625
Limited quantities (ADN)	: 1 L
Excepted quantities (ADN)	: E0

##### Rail transport

Special provisions (RID)	: 190, 327, 344, 625
Limited quantities (RID)	: 1L
Excepted quantities (RID)	: E0



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Hazard identification number (RID) : 23

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

#### National regulations

EC-regulation 2015/830 /EC, 1907/2006/EC (REACH), 1272/2008/EC (CLP), 790/2009/EC. Transport of dangerous goods (ADR/RID, IMDG, IATA/ICAO). Workplace exposure limits.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

SDS ID : 305313

Data sources : EC-regulation 2015/830 /EC, 1907/2006/EC (REACH), 1272/2008/EC (CLP), 790/2009/EC. Transport of dangerous goods (ADR/RID, IMDG, IATA/ICAO). Workplace exposure limits.

Other information : None.

Full text of H- and EUH-statements:	
Aerosol 1	Aerosol, Category 1
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Flam. Gas 1A	Flammable gases, Category 1A
Flam. Liq. 2	Flammable liquids, Category 2
Press. Gas	Gases under pressure
Press. Gas (Comp.)	Gases under pressure : Compressed gas
Press. Gas (Liq.)	Gases under pressure : Liquefied gas
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.