

According to directive 1907/2006/EC, 2020/878  
Version 2.0 Revision date: 08-12-2022  
Trade name: Paraffin oil

Page: Page 1 from 9  
Print date: 9-2-2023

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

### 1.1 Product identification:

Product name: Paraffin oil  
Registration number (REACH): 01-2119487078-27  
EC no: 232-455-8  
CAS no: 8042-47-5

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

Relevant identified uses: Laboratory chemicals  
Analytical and laboratory applications  
Uses advised against: Not to be used for products in contact with food.  
Not to be used for private purposes (household).

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

Responsible distributor : ASSYST bvba / A.S.O.W. bvba  
Hellegatstraat 13a  
2590 Berlaar  
Belgium  
Tel: +32 495 50 61 14 / +32 496 83 70 27  
Website: [www.assyst.org](http://www.assyst.org) / [www.artsuppliesonweb.com](http://www.artsuppliesonweb.com)  
Email: [ao@assyst.org](mailto:ao@assyst.org) / [vera.opsommer@assyst.org](mailto:vera.opsommer@assyst.org)

### 1.4 Emergency phone number:

For Belgium: Call the **Poison Control Center (070 245 245 - free)**, if not available: **02 264 96 30** (normal rate) or your doctor. In life-threatening situations, always call the European emergency number **112**.  
NHS 24 Direct For help from a GP, visit your GP surgery's website, use an online service to contact your GP, or call the surgery. **For urgent medical help**, use the NHS 111 online service, or **call 111** if you are unable to get help online. **For life-threatening emergencies, call 999** for an ambulance. There is more information about getting medical help on the NHS website.

## **SECTION 2: Identification of hazards**

### 2.1 Classification of the substance or mixture:

#### **Classification according to directive (EC) No 1272/2008 and its amendments.**

This substance does not meet the criteria for classification according to Regulation No 1272/2008/EC.

### 2.2 Labelling elements:

#### **Labelling according to regulation (EC) No 1272/2008 [CLP/GHS]:**

No specific labelling is required for this substance.

### 2.3 Other hazards:

Do not allow product to enter the environment uncontrolled.

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, Annex XIII.

Product does not contain any SVHC substances (listed) > 0.1% according to Regulation (EC) No 1907/2006 §59 (REACH).

## **SECTION 3: Composition and information on ingredients**

### 3.1 Substances:

Substance name: Paraffin oil  
REACH reg. no: 01-2119487078-27  
CAS no: 8042-47-5  
EC no: 232-455-8

According to directive 1907/2006/EC, 2020/878  
Version 2.0 Revision date: 08-12-2022  
Trade name: Paraffin oil

Page: Page 2 from 9  
Print date: 9-2-2023

## **SECTION 4: First aid measures**

### 4.1 Description of first-aid measures:

#### **General comments:**

Remove contaminated clothing.

#### **By inhalation:**

Provide fresh air.

#### **On skin contact:**

Rinse/shower skin with water.

#### **On eye contact:**

Rinse gently with water for several minutes.

#### **If swallowed:**

Rinsing the mouth.

If you feel unwell, consult a doctor.

### 4.2 Main acute and delayed symptoms and effects:

No symptoms and effects are known so far.

### 4.3 Indication of immediate medical attention and special treatment required:

No data available

## **SECTION 5: Fire-fighting measures**

### 5.1 Extinguishing media:

#### **Suitable extinguishing agents:**

Match fire-fighting measures to environment.

Water, foam, dry extinguishing powder, ABC powder, carbon dioxide (CO<sub>2</sub>).

#### **Unsuitable extinguishing media:**

Full water jet.

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

Flammable.

#### **Hazardous combustion products:**

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>).

Can produce toxic carbon monoxide fumes in case of fire.

### 5.3 Advice for firefighters:

In case of fire and/or explosion, avoid breathing fumes.

With normal precautions, extinguish from a reasonable distance.

Wear self-contained breathing apparatus.

## **SECTION 6: Measures in case of accidental release of the substance or mixture**

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

#### **For persons other than emergency services:**

No special measures are necessary.

### 6.2 Environmental precautions:

Avoid getting the product into drains, surface water or groundwater.

### 6.3 Methods and materials for containment and cleaning:

#### **Advice on how to contain the spill:**

Covering drains.

Mechanical recording.

#### **Advice on how to clean up the spill:**

Mechanical recording.

#### **Other information relating to discharge or release:**

Put into suitable retainers for disposal.

Ventilate the affected area.

### 6.4 Reference to other sections:

Hazardous combustion products: see section 5.

# SAFETY DATA SHEET

According to directive 1907/2006/EC, 2020/878  
Version 2.0 Revision date: 08-12-2022  
Trade name: Paraffin oil

Page: Page 3 from 9  
Print date: 9-2-2023

Personal protective equipment: see section 8.  
Incompatible materials: see section 10.  
Instructions for disposal: see section 13.

## **SECTION 7: Handling and storage:**

### 7.1 Precautions for safe handling of the substance or mixture:

Measures for adequate ventilation.

### **Advice on general occupational hygiene:**

Keep away from food, drink and animal feed.

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

Keep in tightly closed container.

### **Incompatible substances or mixtures:**

Note advice for chemical storage.

### **Consideration of other advice:**

### **Recommended storage temperature:**

15 - 25°C

### 7.3 Specific end use:

No information is available.

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

### 8.1 Control parameters:

#### **National limits**

#### **Occupational exposure limits (occupational exposure limits):**

This information is not available...

#### **Human health values**

#### **Relevant DNEL and other threshold values**

End point	Threshold	Protection objective, route of exposure	Used in	Exposure time
DNEL	164.6 mg/m <sup>3</sup>	human, via inhalation	(industrial) employees	chronic - systemic effects
DNEL	217.1 mg/kg bw/day	human, through the skin	(industrial) employees	chronic - systemic effects

### 8.2 Exposure control measures:

#### **Individual protection measures (personal protective equipment)**

##### **Eye/face protection:**

Wear safety goggles with side protection.

##### **Skin protection:**

##### **Hand protection**

Wear suitable gloves.

Suitable are EN 374-tested gloves against chemicals.

##### Type of material:

NBR (nitrile rubber)

##### Material thickness:

>0.11 mm

##### Breakthrough time of glove material:

>480 minutes (permeation level: 6)

##### **Other protective equipment:**

Insert rest periods for skin regeneration.

Preventive skin protection (skin-protective creams) is recommended.

##### **Respiratory protection:**

Respiratory protection is necessary in case of: Aerosol or mist formation.

According to directive 1907/2006/EC, 2020/878  
Version 2.0 Revision date: 08-12-2022  
Trade name: Paraffin oil

Page: Page 4 from 9  
Print date: 9-2-2023

Type: A (against organic gases and vapours with a boiling point > 65 °C, colour code: brown).

**Environmental exposure control:**

Avoid getting the product into drains, surface water or groundwater.

**SECTION 9: Physical and chemical properties**

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

Physical state:	liquid
Colour:	clear - colourless
Odour:	characteristic
Melting/freezing point:	-15°C at 1,013 hPa (ECHA)
Boiling point or initial boiling point and boiling range:	600°C at 1,013 hPa
Flammability:	this material is flammable, but will not easily catch fire
Lower and upper explosion limit:	not determined
Flash point:	>210°C (DIN ISO 2592)
Self-ignition temperature:	undetermined
Decomposition temperature:	>350°C
pH value:	undetermined
Kinematic viscosity:	71 mm <sup>2</sup> /s at 40°C (DIN EN ISO 3104)

**Solubility(s)**

Solubility in water: (practically insoluble)

**Partition coefficient**

Partition coefficient n-octanol/water (log value): 4

Vapour pressure: 0.1 hPa at 20°C

**Density and/or relative density**

Density: ~ 0.881 g/cm<sup>3</sup> at 15°C

Relative vapour density: no information is available with this property

Particle characteristics: irrelevant (liquid)

**Other safety parameters**

Oxidising properties: no

**9.2 Other information**

Information on physical hazard classes: hazard classes in accordance with GHS  
(physical hazards): not relevant

Other safety features:

Temperature class (EU, according to ATEX): T2  
Maximum permissible surface temperature of the equipment: 300°C

**SECTION 10: Stability and reactivity**

**10.1 Reactivity:**

This substance is not reactive under normal ambient conditions.

**When heated:**

Vapours can combine with air to form an explosive mixture.

**10.2 Chemical Stability:**

The material is stable under normal atmospheric conditions and expected temperature and pressure during storage and handling.

**10.3 Potential Hazardous Reactions:**

Violent reaction with: strongly oxidising.

**10.4 Conditions to avoid:**

Keep away from heat.

Decomposition occurs from temperatures of: >350°C.

**10.5 Chemically interacting Materials:**

There is no further information.

# SAFETY DATA SHEET

According to directive 1907/2006/EC, 2020/878  
Version 2.0 Revision date: 08-12-2022  
Trade name: Paraffin oil

Page: Page 5 from 9  
Print date: 9-2-2023

10.6 Hazardous Decomposition Products:  
Hazardous combustion products: see section 5.

## **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects:

Classification according to GHS (1272/2008/EC, CLP)

This substance does not meet the criteria for classification according to Regulation No 1272/2008/EC.

#### **Acute toxicity:**

Is not classifiable as acutely toxic.

Route of exposure	End point	Value	Species	Method	Source
Oral	LD50	>5,000 mg/kg	Rat		ECHA
Inhalation: dust/mist	LC50	>5 mg/l/4h	Rat		ECHA
Dermal	LD50	>2,000 mg/kg	rabbit		ECHA

#### **Skin corrosion/irritation:**

Is not classifiable as corrosive/irritating to the skin.

#### **Serious eye damage/eye irritation:**

Cannot be classified as severely eye-injurious or irritating to the eyes.

#### **Respiratory or skin sensitisation:**

Is not classifiable as inhalant or skin allergenic.

#### **Mutagenicity in gametes:**

Is not classifiable as mutagenic in germ cells (mutagenic).

#### **Carcinogenicity:**

Is not classifiable as carcinogenic.

#### **Reproductive toxicity:**

Is not classifiable as a reproductive toxicant.

#### **Specific target organ toxicity at single exposure:**

Cannot be classified as toxic to specific target organs (single exposure).

#### **Specific target organ toxicity on repeated exposure:**

Cannot be classified as toxic to specific target organs (repeated exposure).

#### **Inhalation hazard:**

Is not classifiable as dangerous in aspiration.

#### **Symptoms related to physical, chemical and toxicological properties:**

##### **- After swallowing:**

No data are available.

##### **- In case of contact with eyes:**

No data are available.

##### **- After inhalation:**

No data are available.

##### **- On contact with skin:**

No data are available.

##### **- Other information:**

Health effects are not known.

### 11.2 Endocrine disrupting properties

Not stated.

### 11.3 Information on other hazards

There is no further information.

## **SECTION 12: Ecological information**

### 12.1 Toxicity:

Cannot be classified as hazardous to the aquatic environment.

# SAFETY DATA SHEET

According to directive 1907/2006/EC, 2020/878  
Version 2.0 Revision date: 08-12-2022  
Trade name: Paraffin oil

Page: Page 6 from 9  
Print date: 9-2-2023

## **Aquatic toxicity (acute):**

End point	Value	Species	Source	Exposure time
LD50	>1,000 mg/l	bindweed (Leuciscus idus)	OECD-203	96 h
EC50	>100 mg/l	daphnia magna	OECD-202	48 h
LL50	>10,000 mg/l	Fish	ECHA	96 h

## **Biodegradation:**

No data are available.

### 12.2 Persistence and Degradability:

Process	Degradation rate	Time
biotic/abiotic	31 %	28 d

### 12.3 Bioaccumulation:

The substance meets the criterion for strong bioaccumulation.

n-octanol/water (log KOW): 4

### 12.4 Mobility in soil:

No data are available.

### 12.5 Results of PBT and vPvB assessment:

No data are available.

### 12.6 Endocrine disrupting properties

Not stated.

### 12.7 Other adverse effects

No data are available.

## **SECTION 13: Disposal instructions**

### 13.1 Waste treatment methods:

For waste disposal, contact the responsible authorised waste disposal company.

### **Information regarding wastewater discharge:**

Do not throw waste into the sink.

### **Relevant provisions on waste prevention**

The allocation of waste key numbers/waste markings should be industry- and process-specific in accordance with AVV.

Abfallverzeichnis-Verordnung (waste catalogue regulation, Germany).

### **Notes:**

Waste is separated into the categories that can be treated separately by local or national waste management services.

Please note the relevant national or regional provisions.

## **SECTION 14: Information relating to transport**

### 14.1 UN number

Not regulated as a hazardous substance

### 14.2 Proper cargo name according to UN model regulations

Not regulated as a hazardous substance

### 14.3 Transport hazard class(es)

Not regulated as a hazardous substance

### 14.4 Packing group

Remarks : IMDG Code segregation group - none

Not regulated as a hazardous substance

### 14.5 Environmental hazards

Not regulated as a hazardous substance

### 14.6 Special precautions for the user

Not applicable

### 14.7 Transport in bulk in accordance with Annex II to MARPOL 73/78 and the IBC Code

# SAFETY DATA SHEET

According to directive 1907/2006/EC, 2020/878  
Version 2.0 Revision date: 08-12-2022  
Trade name: Paraffin oil

Page: Page 7 from 9  
Print date: 9-2-2023

Not applicable for product, as delivered.

## 14.8 Information for each of the UN regulations

### **Transport of dangerous goods by road, rail or inland waterway (ADR/RID/ADN) - Additional information:**

Not subject to ADR, RID and ADN.

### **International Maritime Dangerous Goods Code (IMDG) - Additional information:**

Not subject to the IMDG.

### **International Civil Aviation Organisation (ICAO-IATA/DGR) - Additional information:**

Not subject to ICAO-IATA.

## **SECTION 15: Statutory information**

### 15.1 Safety, health and environmental regulations and legislation specific to the substance or mixture:

#### **Relevant European Union (EU) provisions**

#### **Restrictions in accordance with REACH, Annex XVII:**

not listed

#### **List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list:**

Not stated.

#### **Seveso Directive**

#### **2012/18/EU (Seveso III):**

Not granted.

#### **Decopaint Directive:**

VOC content 0 % | 0 g/l

#### **Directive on industrial emissions (IE Directive)**

VOC content 100 % | 881 g/l

#### **Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS):**

Not stated.

#### **Regulation on the establishment of a European Pollutant Release and Transfer Register (PRTR):**

Not stated.

#### **Water Framework Directive (WFD):**

Not stated.

#### **Regulation on the marketing and use of explosives precursors:**

Not stated.

#### **Regulation on drug precursors:**

Not stated.

#### **Regulation on ozone-depleting substances:**

Not stated.

#### **Regulation on the Import and Export of Dangerous Chemicals (PIC):**

Not stated.

#### **Regulation on persistent organic pollutants (POPs):**

Not stated.

#### **Other information:**

Directive 94/33/EC on the protection of young people at work.

Observe work restrictions in accordance with the Pregnancy Directive (92/85/EEC) for expectant or nursing mothers.

#### **National inventories**

Country	List	Status
AU	AIIC	Fabric is mentioned
CA	DSL	Fabric is mentioned
CN	IECSC	Fabric is mentioned
EU	ECSI	Fabric is mentioned
EU	REACH Reg.	Fabric is mentioned

# SAFETY DATA SHEET

According to directive 1907/2006/EC, 2020/878  
Version 2.0 Revision date: 08-12-2022  
Trade name: Paraffin oil

Page: Page 8 from 9  
Print date: 9-2-2023

KR	KECI	Fabric is mentioned
MX	INSQ	Fabric is mentioned
NZ	NZIoC	Fabric is mentioned
PH	PICCS	Fabric is mentioned
TR	CICR	Fabric is mentioned
TW	TCSI	Fabric is mentioned
US	TSCA	Fabric is mentioned

## Legend

AIIC:	Australian Inventory of Industrial Chemicals
CICR:	Chemical Inventory and Control Regulation
DSL:	Domestic Substances List (DSL)
ECSI:	EC inventory (EINECS, ELINCS, NLP)
IECSC:	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ:	National Inventory of Chemical Substances
KECI:	Korea Existing Chemicals Inventory
NZIoC:	New Zealand Inventory of Chemicals
PICCS:	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg:	REACH registered substances
TCSI:	Taiwan Chemical Substance Inventory
TSCA:	Toxic Substance Control Act

## 15.2 Chemical safety assessment:

No chemical safety assessment has been carried out for this substance.

## SECTION 16: Other information

### Indication of changes (revised safety data sheet)

Aligning with regulation: Regulation (EC) No 1907/2006 (REACH), amended by 2020/878/EU

Restructuring: heading 9, heading 14

### Abbreviations and acronyms:

ADN :	Accord européen relatif au transport internationale des marchandises Dangereuses par voies de navigation Intérieures (European Agreement concerning the international carriage of dangerous goods by inland waterways)
ADR :	Accord relatif au transport internationale des marchandises Dangereuses par route (Agreement concerning the international carriage of dangerous goods by road)
CAS:	Chemical Abstracts Service (database for chemicals and their unique number, the CAS registration number)
CLP:	Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging (CLP) of substances and mixtures.
DGR:	Dangerous Goods Regulations, regulations for the transport of dangerous goods, see IATA/DGR
DNEL:	Derived No-Effect Level.
EC50:	Effective concentration 50 %. The EC50 corresponds to the concentration of a tested substance that causes 50 % change in response (e.g. on growth) during a specified time interval
EC No:	The EC register (EINECS, ELINCS and the NLP register) is the source for the seven-digit EC number as a prefix for substances (European Union)
EINECS:	European Inventory of Existing Commercial Chemical Substances.
ELINCS:	European List of Notified Chemical Substances
GHS:	"Globally Harmonised System of Classification and Labelling of Chemicals", developed by the United Nations
IATA:	International Air Transport Association

# SAFETY DATA SHEET

According to directive 1907/2006/EC, 2020/878  
Version 2.0 Revision date: 08-12-2022  
Trade name: Paraffin oil

Page: Page 9 from 9  
Print date: 9-2-2023

IATA/DGR:	Dangerous Goods Regulations (DGR) for aviation (IATA)
ICAO:	International Civil Aviation Organisation.
IMDG:	International Maritime Dangerous Goods Code (IMDG code)
LC50:	Lethal concentration 50 %: is the concentration value in air of the material at which 50 % of the test objects die during a specified time interval
LD50:	Lethal dose 50 %: the LD50 corresponds to the dose of a tested substance at which 50 % of test subjects die during a specified time
LL50:	Lethal Load 50 %: the LL50 corresponds to the load causing 50 % mortality
NLP:	No-Longer Polymer
PBT:	Persistent, Bioaccumulative and Toxic
REACH:	Registration, Evaluation, Authorisation and Restriction of Chemicals.
RID:	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations on the International Carriage of Dangerous Goods by Rail).
SVHC:	Substance of very high concern
VOCS:	Volatile organic compounds
vPvB:	Very persistent and very bioaccumulative

## Key literature references and data sources:

Regulation (EC) No 1272/2008 on classification, labelling and packaging (CLP) of substances and mixtures.  
Regulation (EC) No 1907/2006 (REACH), amended by 2020/878/EU.  
Transport of dangerous goods by road, rail or inland waterways (ADR/RID/ADN).  
International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for aviation (IATA).

## Disclaimer

This information is based on the current state of our knowledge.  
This safety data sheet is compiled and intended exclusively for this product.