

article number: **7725** Version: **2.0 en** Replaces version of: 18.05.2021 Version: (1) date of compilation: 17.05.2021 Revision: 04.03.2024

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

#### 1.1 Product identifier

Identification of the substance	Heptane (isomers) >=98,5 %, for synthesis ≥98,5 %, for synthesis
Article number	7725
Registration number (REACH)	01-2119475515-33-xxxx
Index number in CLP Annex VI	649-328-00-1
EC number	927-510-4
CAS number	64742-49-0
Alternative name(s)	Hydrocarbons, C <sub>7</sub> , n-alkanes, isoalkanes, cyclics

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

Relevant identified uses:

Uses advised against:

Laboratory and analytical use Laboratory chemical

Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household). Food, drink and animal feedingstuffs.

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

Carl Roth GmbH + Co. KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

**Telephone:**+49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 **e-mail:** sicherheit@carlroth.de **Website:** www.carlroth.de

Competent person responsible for the safety data Department Health, Safety and Environment sheet:

#### e-mail (competent person):

sicherheit@carlroth.de

#### 1.4 Emergency telephone number

## **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

according to Regulation (EC) No. 1907/2006 (REACH)



#### Heptane (isomers) >=98,5 %, for synthesis ≥98,5 %, for synthesis

#### article number: 7725

Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
2.6	Flammable liquid	2	Flam. Liq. 2	H225
3.2	Skin corrosion/irritation	2	Skin Irrit. 2	H315
3.8D	3.8D Specific target organ toxicity - single exposure (narcotic effects, drowsiness)		STOT SE 3	H336
3.10	.10 Aspiration hazard		Asp. Tox. 1	H304
4.1C	Hazardous to the aquatic environment - chronic hazard	2	Aquatic Chronic 2	H411

The classification as a carcinogen or mutagen is not required. The substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7). For full text of abbreviations: see SECTION 16

#### The most important adverse physicochemical, human health and environmental effects

The product is combustible and can be ignited by potential ignition sources. Spillage and fire water can cause pollution of watercourses.

#### 2.2 Label elements

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

Signal word Danger

#### Pictograms



#### **Hazard statements**

H225 H304	Highly flammable liquid and vapour May be fatal if swallowed and enters airways
H315	Causes skin irritation
H336	May cause drowsiness or dizziness
H411	Toxic to aquatic life with long lasting effects

#### **Precautionary statements**

#### **Precautionary statements - prevention**

P210	Keep away from heat, sparks, open flames, hot surfaces. No smoking
P273	Avoid release to the environment

#### **Precautionary statements - response**

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing
P331	Do NOT induce vomiting

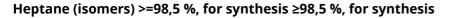
#### **Precautionary statements - storage**

P403+P235 Store in a well-ventilated place. Keep cool

#### Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger

according to Regulation (EC) No. 1907/2006 (REACH)



article number: 7725



May be fatal if swallowed and enters airways. May cause drowsiness or dizziness.

P301+P310 P304+P340 P331

H304

H336

IF SWALLOWED: Immediately call a POISON CENTER/doctor. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Do NOT induce vomiting.

#### 2.3 Other hazards

#### Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

#### **Endocrine disrupting properties**

Does not contain an endocrine disruptor (ED) at a concentration of  $\ge 0,1\%$ .

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

#### 3.1 Substances

"UVCB substance" (substance of unknown or variable composition).

Name of substance	Hydrocarbons, C <sub>7</sub> , n-alkanes, isoalkanes, cyclics
REACH Reg. No	01-2119475515-33-xxxx
CAS No	64742-49-0
EC No	927-510-4
Index No	649-328-00-1

#### Impurities/additives/constituents:

Name of substance	Identifier	Wt%
n-Heptane	CAS No 142-82-5	30 – 40
	EC No 205-563-8	
	Index No 601-008-00-2	

#### Remarks

For full text of abbreviations: see SECTION 16

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

#### 4.1 Description of first aid measures



#### **General notes**

Take off contaminated clothing.

#### **Following inhalation**

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.





article number: 7725

#### Following skin contact

Rinse skin with water/shower. In case of skin irritation, consult a physician.

#### Following eye contact

Rinse cautiously with water for several minutes. In all cases of doubt, or when symptoms persist, seek medical advice.

#### **Following ingestion**

Call a physician immediately. Observe aspiration hazard if vomiting occurs.

### **4.2 Most important symptoms and effects, both acute and delayed** Aspiration hazard, Irritation, Dizziness, Drowsiness, Narcosis

# **4.3 Indication of any immediate medical attention and special treatment needed** none

## **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media



#### Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings! water spray, dry extinguishing powder, BC-powder, carbon dioxide (CO<sub>2</sub>)

#### Unsuitable extinguishing media

water jet

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

Combustible. In case of insufficient ventilation and/or in use, may form flammable/explosive vapourair mixture. Solvent vapours are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapours may form explosive mixtures with air.

#### Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO $_2$ ), May produce toxic fumes of carbon monoxide if burning.

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Do not allow firefighting water to enter drains or water courses. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

## **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures



#### For non-emergency personnel

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Do not breathe vapour/spray. Avoidance of ignition sources.

according to Regulation (EC) No. 1907/2006 (REACH)



#### Heptane (isomers) >=98,5 %, for synthesis ≥98,5 %, for synthesis

article number: 7725

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

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

#### Advice on how to contain a spill

Covering of drains.

#### Advice on how to clean up a spill

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

#### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

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

#### 7.1 Precautions for safe handling

Provision of sufficient ventilation.

#### Measures to prevent fire as well as aerosol and dust generation



Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharge. Due to danger of explosion, prevent leakage

of vapours into cellars, flues and ditches.

#### Measures to protect the environment

Avoid release to the environment.

#### Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs. When using do not smoke.

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

Keep container tightly closed.

#### Incompatible substances or mixtures

Observe hints for combined storage.

#### Consideration of other advice:

Ground/bond container and receiving equipment.

#### **Ventilation requirements**

Use local and general ventilation.

® §ROTH

#### Heptane (isomers) >=98,5 %, for synthesis ≥98,5 %, for synthesis

article number: 7725

**Specific designs for storage rooms or vessels** Recommended storage temperature: 15 – 25 °C

#### 7.3 Specific end use(s)

No information available.

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

#### 8.1 Control parameters

#### **National limit values**

#### **Occupational exposure limit values (Workplace Exposure Limits)**

This information is not available.

#### Human health values

#### **Relevant DNELs and other threshold levels**

Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
DNEL	2.085 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
DNEL	300 mg/kg bw/ day	human, dermal	worker (industry)	chronic - systemic effects

#### **Relevant DNELs of components**

Name of sub- stance	CAS No	End- point	Threshol d level	Protection goal, route of exposure	Used in	Exposure time
n-Heptane	142-82-5	DNEL	2.085 mg/ m <sup>3</sup>	human, inhalat- ory	worker (industry)	chronic - systemic effects
n-Heptane	142-82-5	DNEL	300 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

#### 8.2 Exposure controls

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

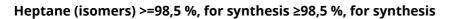
#### **Eye/face protection**



Use safety goggle with side protection.

#### **Skin protection**





article number: 7725

#### hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a consider-able reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

#### • type of material

NBR: acrylonitrile-butadiene rubber

#### material thickness

0,4 mm

#### • breakthrough times of the glove material

>480 minutes (permeation: level 6)

#### • other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Flame-retardant protective clothing.

#### **Respiratory protection**



Respiratory protection necessary at: Aerosol or mist formation. Type: A (against organic gases and vapours with a boiling point of > 65 °C , colour code: Brown).

#### **Environmental exposure controls**

Keep away from drains, surface and ground water.

## **SECTION 9: Physical and chemical properties**

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

Physical state	liquid
Colour	clear - colourless
Odour	characteristic
Melting point/freezing point	<-90 °C
Boiling point or initial boiling point and boiling range	89 – 97 °C at 100 kPa (ECHA)
Flammability	flammable liquid in accordance with GHS criteria
Lower and upper explosion limit	0,6 vol% (LEL) - 7 vol% (UEL)
Flash point	<0 °C at 1 atm (ECHA)
Auto-ignition temperature	>200 °C at 1 atm (ECHA) (auto-ignition temperat- ure (liquids and gases))
Decomposition temperature	not relevant



article number: 7725

Heptane (isomers) >=98,5 %, for synthesis ≥98,5 %, for synthesis



	pH (value)	not determined
	Kinematic viscosity	0,67 <sup>mm²</sup> / <sub>s</sub> at 20 °C
	Solubility(ies)	
	Water solubility	0,014 <sup>g</sup> / <sub>l</sub> at 25 °C (ECHA)
	Partition coefficient	
	Partition coefficient n-octanol/water (log value):	3,6 (pH value: 7, 20 °C) (ECHA)
	Vapour pressure	6 kPa at 20 °C
	Density and/or relative density	
	Density	0,7 – 0,73 <sup>g</sup> / <sub>cm³</sub> at 15 °C (ECHA)
	Relative vapour density	Information on this property is not available.
	Particle characteristics	not relevant (liquid)
	Other safety parameters	
	Oxidising properties	none
9.2	Other information	
	Information with regard to physical hazard classes:	There is no additional information.
	Other safety characteristics:	
	Surface tension	20,7 <sup>mN</sup> / <sub>m</sub> (25 °C) (ECHA)
	Temperature class (EU, acc. to ATEX)	T3 Maximum permissible surface temperature on the equipment: 200°C

## **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

It's a reactive substance. Risk of ignition. Vapours may form explosive mixtures with air.

#### If heated

Risk of ignition.

#### **10.2** Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

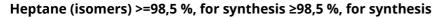
#### 10.3 Possibility of hazardous reactions

Violent reaction with: strong oxidiser, Chlorine, Phosphorus

#### 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

according to Regulation (EC) No. 1907/2006 (REACH)



article number: 7725

- **10.5** Incompatible materials Rubber articles, different plastics
- **10.6 Hazardous decomposition products** Hazardous combustion products: see section 5.

## **SECTION 11: Toxicological information**

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

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

#### Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity							
Exposure route	Endpoint	Value	Species	Method	Source		
inhalation: vapour	LC50	>23,3 <sup>mg</sup> / <sub>l</sub> /4h	rat		ECHA		
dermal	LD50	>2.800 - 3.100 <sup>mg</sup> / kg	rat		ECHA		

#### Acute toxicity of components

Name of substance	CAS No	Exposure route	Endpoint	Value	Species
n-Heptane	142-82-5	oral	LD50	>5.000 <sup>mg</sup> / <sub>kg</sub>	rat
n-Heptane	142-82-5	inhalation: va- pour	LC50	>29,29 <sup>mg</sup> / <sub>l</sub> / 4h	rat
n-Heptane	142-82-5	dermal	LD50	>2.000 <sup>mg</sup> / <sub>kg</sub>	rabbit

#### Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

#### Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

#### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

#### Carcinogenicity

Shall not be classified as carcinogenic.

#### **Reproductive toxicity**

Shall not be classified as a reproductive toxicant.

#### Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

#### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).





according to Regulation (EC) No. 1907/2006 (REACH)



#### Heptane (isomers) >=98,5 %, for synthesis ≥98,5 %, for synthesis

article number: 7725

#### Aspiration hazard

May be fatal if swallowed and enters airways.

#### Symptoms related to the physical, chemical and toxicological characteristics

#### • If swallowed

gastrointestinal complaints, nausea, vomiting, aspiration hazard, varying degrees of pulmonary injury

#### • If in eyes

slightly irritant but not relevant for classification

#### • If inhaled

vertigo, Dyspnoea, fatigue, narcosis

#### • If on skin

causes skin irritation

#### Other information

none

#### **11.2** Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\ge 0,1\%$ .

#### 11.3 Information on other hazards

There is no additional information.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

Г

Toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components							
Name of sub- stance	CAS No	End	point	Value	Species	Exposure time	
n-Heptane	142-82-5	EC	50	0,64 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 h	
Aquatic toxicity (chronic)							
Endpoint	Value		Species		Source	Exposure time	
EC50	0,23 <sup>mg</sup> / <sub>l</sub>	I	aquatic invertebrates		ebrates ECHA		
Aquatic toxicity (chronic) of components							
Name of sub- stance	CAS No	End	point	Value	Species	Exposure time	
n-Heptane	142-82-5	EC	50	0,23 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	21 d	

according to Regulation (EC) No. 1907/2006 (REACH)



#### Heptane (isomers) >=98,5 %, for synthesis ≥98,5 %, for synthesis

article number: 7725

#### 12.2 Persistence and degradability

#### **Biodegradation**

The substance is readily biodegradable.

Process of degradability					
Process	Degradation rate	Time			
oxygen depletion	83 %	16 d			

#### Degradability of components

Name of substance	CAS No	Process	Degrada- tion rate	Time	Method	Source
n-Heptane	142-82-5	oxygen deple- tion	28,2 %	2 d		ECHA

#### 12.3 Bioaccumulative potential

Does not significantly accumulate in organisms.

n-octanol/water (log KOW) 3,6 (pH value: 7, 20 °C) (ECHA)						
Bioaccumulative potential of components						
Name of substance	CAS No	BCF	Log KOW	BOD5/COD		
n-Heptane	142-82-5	552	4,5			

#### 12.4 Mobility in soil

Data are not available.

#### 12.5 Results of PBT and vPvB assessment

Data are not available.

#### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\ge 0,1\%$ .

#### 12.7 Other adverse effects

Data are not available.

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.



#### article number: 7725

#### Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

#### 13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

#### Properties of waste which render it hazardous

- HP 3 flammable
- HP 4 irritant skin irritation and eye damage
- HP 5 specific target organ toxicity (STOT)/aspiration toxicity
- HP 14 ecotoxic

#### 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions. Non-contaminated packages may be recycled.

## **SECTION 14: Transport information**

#### 14.1 UN number or ID number

	ADR	UN 1206
	IMDG-Code	UN 1206
	ICAO-TI	UN 1206
14.2	UN proper shipping name	
	ADR	HEPTANES
	IMDG-Code	HEPTANES
	ICAO-TI	Heptanes
14.3	Transport hazard class(es)	
	ADR	3
	IMDG-Code	3
	ICAO-TI	3
14.4	Packing group	
	ADR	II
	IMDG-Code	II
	ICAO-TI	II
14.5	Environmental hazards	hazardous to the aquatic environment

#### 14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

#### 14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

#### 14.8 Information for each of the UN Model Regulations



article number: 7725

Agreement concerning the International Carrie information	age of Dangerous Goods by Road (ADR)Additional
Proper shipping name	HEPTANES
Particulars in the transport document	UN1206, HEPTANES, 3, II, (D/E), environmentally hazardous
Classification code	F1
Danger label(s)	3, "Fish and tree"
Environmental hazards	<b>Yes</b> (hazardous to the aquatic environment)
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L
Transport category (TC)	2
Tunnel restriction code (TRC)	D/E
Hazard identification No	33
International Maritime Dangerous Goods Code	(IMDG) - Additional information
Proper shipping name	HEPTANES
Particulars in the shipper's declaration	UN1206, HEPTANES, 3, II, <0°C c.c., MARINE POL- LUTANT
Marine pollutant	<b>yes (P)</b> (hazardous to the aquatic environment)
Danger label(s)	3, "Fish and tree"
Special provisions (SP)	-
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L
EmS	F-E, S-D
Stowage category	В
International Civil Aviation Organization (ICAC	-IATA/DGR) - Additional information
Proper shipping name	Heptanes
Particulars in the shipper's declaration	UN1206, Heptanes, 3, II
Environmental hazards	<b>Yes</b> (hazardous to the aquatic environment)
Danger label(s)	3
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L

according to Regulation (EC) No. 1907/2006 (REACH)

#### Heptane (isomers) >=98,5 %, for synthesis ≥98,5 %, for synthesis

#### article number: 7725

## SECTION 15: Regulatory information

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

#### Relevant provisions of the European Union (EU)

#### **Restrictions according to REACH, Annex XVII**

angerous substances with restrictions (REACH, Annex XVII)					
Name of substance	Name acc. to inventory	CAS No	Restriction	No	
Hydrocarbons, C <sub>7</sub> , n-alkanes, isoalkanes, cyclics	this product meets the criteria for classification in accordance with Reg- ulation No 1272/2008/EC		R3	3	
Hydrocarbons, C <sub>7</sub> , n-alkanes, isoalkanes, cyclics	flammable / pyrophoric		R40	40	
Hydrocarbons, C <sub>7</sub> , n-alkanes, isoalkanes, cyclics	substances in tattoo inks and perman- ent make-up		R75	75	

#### Legend R3

R40

1. Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,

tricks and jokes,

- games for one or more participants, or any article intended to be used as such, even with ornamental aspects,

Articles not complying with paragraph 1 shall not be placed on the market.
 Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:

– can be used as fuel in decorative oil lamps for supply to the general public, and
 – present an aspiration hazard and are labelled with H304.

4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation

(CEN). 5. Without prejudice to the implementation of other Union provisions relating to the classification, labelling and pack-aging of substances and mixtures, suppliers shall ensure, before the placing on the market, that the following require-

(a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil

or even sucking the wick of lamps – may lead to life-threatening lung damage";
 (b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter fluid may lead to life threatening lung damage';
 (c) lamps oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black

opaque containers not exceeding 1 litre by 1 December 2010. 1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended

for supply to the general public for entertainment and decorative purposes such as the following: - metallic glitter intended mainly for decoration,

- artificial snow and frost.

'whoopee' cushions,
 silly string aerosols,

- imitation excrement,

horns for parties,
decorative flakes and foams,

- artificial cobwebs, - stink bombs

2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with

'For professional users only'.

By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/324/EEC (2).
 The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.





#### article number: 7725



tattooing purposes.

® §ROTH

## Heptane (isomers) >=98,5 %, for synthesis ≥98,5 %, for synthesis

#### article number: 7725

#### Legend

9. This entry does not apply to substances that are gases at temperature of 20 °C and pressure of 101,3 kPa, or generate a vapour pressure of more than 300 kPa at temperature of 50 °C, with the exception of formaldehyde (CAS No 50-00-0, EC No 200-001-8).

10. This entry does not apply to the placing on the market of a mixture for use for tattooing purposes, or to the use of a mixture for tattooing purposes, when placed on the market exclusively as a medical device or an accessory to a medical device, within the meaning of Regulation (EU) 2017/745, or when used exclusively as a medical device or an accessory to a medical device, within the same meaning. Where the placing on the market or use may not be exclusively as a medical device or an accessory to a medical device or an accessory to a medical device, within the same meaning. Where the placing on the market or use may not be exclusively as a medical device or an accessory to a medical device, the requirements of Regulation (EU) 2017/745 and of this Regulation shall apply cumulatively.

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

Not listed.

#### **Seveso Directive**

2012/	18/EU (Seveso III)		
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the ap- plication of lower and upper-tier re- quirements	Notes
E2	environmental hazards (hazardous to the aquatic en- vironment, cat. 2)	200 500	57)

#### Notation

57) Hazardous to the Aquatic Environment in category Chronic 2

#### **Deco-Paint Directive**

VOC content	100 %
VOC content	730 <sup>g</sup> /l

#### Industrial Emissions Directive (IED)

VOC content	100 %
VOC content	730 <sup>g</sup> /l

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

not listed

# Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

not listed

#### Water Framework Directive (WFD)

List of pollutants (WFD)						
Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks		
Hydrocarbons, C <sub>7</sub> , n-alkanes, isoalkanes, cyclics	Substances and preparations, or the breakdown products of such, which have been proved to pos- sess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine- related functions in or via the aquatic environment		a)			

according to Regulation (EC) No. 1907/2006 (REACH)

#### Heptane (isomers) >=98,5 %, for synthesis ≥98,5 %, for synthesis

#### article number: 7725

#### Legend

a)

Indicative list of the main pollutants

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

#### not listed

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

not listed

#### Regulation on substances that deplete the ozone layer (ODS)

not listed

#### Regulation concerning the export and import of hazardous chemicals (PIC)

not listed

#### **Regulation on persistent organic pollutants (POP)**

not listed

#### **Other information**

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

#### National inventories

Country	Inventory	Status
AU	AIIC	substance is listed
CA	DSL	substance is listed
CN	IECSC	substance is listed
EU	ECSI	substance is listed
EU	REACH Reg.	substance is listed
KR	KECI	substance is listed
MX	INSQ	substance is listed
NZ	NZIoC	substance is listed
PH	PICCS	substance is listed
TR	CICR	substance is listed
TW	TCSI	substance is listed
US	TSCA	substance is listed (ACTIVE)
VN	NCI	substance is listed

Legend

AIIC	Australian Inventory of Industrial Chemicals
CICR	Chemical Inventory and Control Regulation
DSL	Domestic Substances List (DSL)
ECSI	EC Substance 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
NCI	National Chemical Inventory
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
	REACH registered substances
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act



according to Regulation (EC) No. 1907/2006 (REACH)



#### Heptane (isomers) >=98,5 %, for synthesis ≥98,5 %, for synthesis

article number: 7725

#### 15.2 Chemical safety assessment

According to REACH, Article 14 (1) a chemical safety assessment has been carried out for this substance or components of this mixture when the substance has been registered in quantities of 10 tonnes or more per year per registrant.

## **SECTION 16: Other information**

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

Section	Former entry (text/value)	Actual entry (text/value)	Safety relev- ant
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.	yes
14.1	ADR/RID/ADN: UN 3295	ADR: UN 1206	yes
14.1	IMDG-Code: UN 3295	IMDG-Code: UN 1206	yes
14.1	ICAO-TI: UN 3295	ICAO-TI: UN 1206	yes
14.2	ADR/RID/ADN: HYDROCARBONS, LIQUID, N.O.S.	ADR: HEPTANES	yes
14.2	IMDG-Code: HYDROCARBONS, LIQUID, N.O.S.	IMDG-Code: HEPTANES	yes
14.2	ICAO-TI: Hydrocarbons, liquid, n.o.s.	ICAO-TI: Heptanes	yes
14.8	Proper shipping name: HYDROCARBONS, LIQUID, N.O.S.	Proper shipping name: HEPTANES	yes
14.8	Particulars in the transport document: UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, II, (D/E), environmentally hazardous, special provi- sion 640D	Particulars in the transport document: UN1206, HEPTANES, 3, II, (D/E), environment- ally hazardous	yes
14.8	Special provisions (SP): 640D		yes
14.8	Proper shipping name: HYDROCARBONS, LIQUID, N.O.S.	Proper shipping name: HEPTANES	yes
14.8	Particulars in the shipper's declaration: UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, II, <0°C c.c., MARINE POLLUTANT	Particulars in the shipper's declaration: UN1206, HEPTANES, 3, II, <0°C c.c., MARINE POLLUTANT	yes
14.8	Marine pollutant: yes (hazardous to the aquatic environment)	Marine pollutant: yes (P) (hazardous to the aquatic environment)	yes
14.8	Proper shipping name: Hydrocarbons, liquid, n.o.s.	Proper shipping name: Heptanes	yes
14.8	Particulars in the shipper's declaration: UN3295, Hydrocarbons, liquid, n.o.s., 3, II	Particulars in the shipper's declaration: UN1206, Heptanes, 3, II	yes

according to Regulation (EC) No. 1907/2006 (REACH)



## Heptane (isomers) >=98,5 %, for synthesis ≥98,5 %, for synthesis

#### article number: 7725

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
14.8	Special provisions (SP): A3		yes
15.1	VOC content: 100 % 730 <sup>g</sup> / <sub>1</sub>	VOC content: 100 %	yes
15.1		VOC content: 730 <sup>g</sup> / <sub>l</sub>	yes
15.1	Water Framework Directive (WFD): not listed	Water Framework Directive (WFD)	yes
15.1		List of pollutants (WFD): change in the listing (table)	yes
15.1		Other information: Directive 94/33/EC on the protection of young people at work. Observe employment restric- tions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.	yes
15.1		National inventories: change in the listing (table)	yes
15.2	Chemical Safety Assessment: No Chemical Safety Assessment has been car- ried out for this substance.	Chemical safety assessment: According to REACH, Article 14 (1) a chemical safety assessment has been carried out for this substance or components of this mixture when the substance has been registered in quantities of 10 tonnes or more per year per registrant.	yes

#### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concern- ing the International Carriage of Dangerous Goods by Road)
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identi- fier of substances commercially available within the EU (European Union)
ED	Endocrine disruptor
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule

according to Regulation (EC) No. 1907/2006 (REACH)



## Heptane (isomers) >=98,5 %, for synthesis ≥98,5 %, for synthesis

#### article number: 7725

Abbr.	Descriptions of used abbreviations
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na- tions
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LEL	Lower explosion limit (LEL)
log KOW	n-Octanol/water
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
SVHC	Substance of Very High Concern
UEL	Upper explosion limit (UEL)
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

#### Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

#### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.