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

#### Petroleum ether 40-60 °C ROTISOLV® HPLC

article number: 0731 Version: **3.0 en** Revision: 2024-03-27

Replaces version of: 2023-04-05

Version: (2)

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

#### **Product identifier** 1.1

Identification of the substance Petroleum ether 40-60 °C ROTISOLV® HPLC

Article number 0731

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

Relevant identified uses: Laboratory chemical

Laboratory and analytical use

Uses advised against: Do not use for products which come into contact

with foodstuffs. Do not use for private purposes (household). Food, drink and animal feeding-

#### 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

sheet:

e-mail (competent person): sicherheit@carlroth.de

#### 1.4 **Emergency telephone number**

Name	Street	Postal code/city	Telephone	Website
National Poisons Information Service City Hospital	Dudley Rd	B187QH Birmingham	844 892 0111	

### **SECTION 2: Hazards identification**

#### Classification of the substance or mixture 2.1

#### Classification acc. to GHS

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	Specific target organ toxicity - single exposure (narcotic effects, drowsiness)	3	STOT SE 3	H336
3.10	Aspiration hazard	1	Asp. Tox. 1	H304

United Kingdom (en) Page 1 / 19



date of compilation: 2021-05-25

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

#### Petroleum ether 40-60 °C ROTISOLV® HPLC

article number: 0731



Section	n Hazard class		Hazard class and category	Hazard statement
4.1C	Hazardous to the aquatic environment - chronic hazard	2	Aquatic Chronic 2	H411

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

Signal word Danger

#### **Pictograms**

GHS02, GHS07, GHS08, GHS09









#### **Hazard statements**

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

#### **Precautionary statements**

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

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition
	sources. No smokina

P240 Ground and bond container and receiving equipment

P273 Avoid release to the environment

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

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor

P331 Do NOT induce vomiting

### **Precautionary statements - storage**

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

**Hazardous ingredients for labelling:** Hydrocarbons, C<sub>6</sub>, isoalkanes, <5% n-hexane, n-

Péntane

#### 2.3 Other hazards

#### Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of  $\geq$  0,1%.

#### **Endocrine disrupting properties**

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

United Kingdom (en) Page 2 / 19

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

#### Petroleum ether 40-60 °C ROTISOLV® HPLC

article number: 0731



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

#### **Substances** 3.1

not relevant (mixture)

#### 3.2 **Mixtures**

#### **Description of the mixture**

Name of sub- stance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
n-Pentane	CAS No 109-66-0 EC No 203-692-4 Index No 601-006-00-1	≤70	Flam. Liq. 2 / H225 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411		C GHS-HC IOELV
Hydrocarbons, C <sub>6</sub> , isoalkanes, <5% n-hex- ane	CAS No 64742-49-0 EC No 931-254-9 Index No 649-328-00-1	≤70	Flam. Liq. 2 / H225 Skin Irrit. 2 / H315 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411		

#### Notes

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. GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/

2008/EC, Annex VI)

Substance with a community indicative occupational exposure limit value

#### 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.

#### **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.

United Kingdom (en) Page 3 / 19

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

#### Petroleum ether 40-60 °C ROTISOLV® HPLC

article number: 0731



#### 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 vapour-air 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 are heavier than air, spread along floors and form explosive mixtures with air. Vapours may form explosive mixtures with air

#### **Hazardous combustion products**

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

#### 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.

United Kingdom (en) Page 4 / 19

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

#### Petroleum ether 40-60 °C ROTISOLV® HPLC

article number: 0731



#### 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

Store in a well-ventilated place. 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.

#### Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

#### 7.3 Specific end use(s)

No information available.

United Kingdom (en) Page 5 / 19

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

#### Petroleum ether 40-60 °C ROTISOLV® HPLC

article number: 0731



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

#### **Control parameters**

#### **National limit values**

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

Cou ntr y	Name of agent	CAS No	Identi- fier	TW A [pp m]	TWA [mg/ m³]	STE L [pp m]	STEL [mg/ m³]	Ceil ing- C [pp m]	Ceil- ing-C [mg/ m³]	Nota- tion	Source
EU	pentane	109-66-0	IOELV	1.00 0	3.000						2006/15/ EC
GB	pentane	109-66-0	WEL	600	1.800						EH40/ 2005

Notation

Ceiling-C

Ceiling value is a limit value above which exposure should not occur Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified) STEL

TWA

Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

### **Relevant DNELs of components**

Name of sub- stance	CAS No	End- point	Threshol d level	Protection goal, route of exposure	Used in	Exposure time
Hydrocarbons, C <sub>6</sub> , isoalkanes, <5% n- hexane	64742-49-0	DNEL	5.306 mg/ m³	human, inhalat- ory	worker (industry)	chronic - systemic effects
Hydrocarbons, C <sub>6</sub> , isoalkanes, <5% n- hexane	64742-49-0	DNEL	13.964 mg/ kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
n-Pentane	109-66-0	DNEL	3.000 mg/ m³	human, inhalat- ory	worker (industry)	chronic - systemic effects
n-Pentane	109-66-0	DNEL	432 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

#### **Relevant PNECs of components**

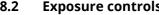
Name of sub- stance	CAS No	End- point	Threshol d level	Organism	Environmental compartment	Exposure time
n-Pentane	109-66-0	PNEC	230 <sup>µg</sup> / <sub>l</sub>	aquatic organ- isms	freshwater	short-term (single instance)
n-Pentane	109-66-0	PNEC	230 <sup>µg</sup> / <sub>l</sub>	aquatic organ- isms	marine water	short-term (single instance)
n-Pentane	109-66-0	PNEC	3.600 <sup>µg</sup> / <sub>I</sub>	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
n-Pentane	109-66-0	PNEC	1,2 <sup>mg</sup> / <sub>kg</sub>	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
n-Pentane	109-66-0	PNEC	1,2 <sup>mg</sup> / <sub>kg</sub>	aquatic organ- isms	marine sediment	short-term (single instance)
n-Pentane	109-66-0	PNEC	0,55 <sup>mg</sup> / <sub>kg</sub>	terrestrial organ- isms	soil	short-term (single instance)

United Kingdom (en) Page 6 / 19

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

#### Petroleum ether 40-60 °C ROTISOLV® HPLC

article number: 0731



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





Use safety goggle with side protection.

#### Skin protection





#### 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 considerable 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: AX (gas filters and combined filters against low-boiling point organic compounds, colour code: Brown).

### **Environmental exposure controls**

Keep away from drains, surface and ground water.

United Kingdom (en) Page 7 / 19



#### 8.2 **Exposure controls**

### Individual protection measures (personal protective equipment)



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

#### Petroleum ether 40-60 °C ROTISOLV® HPLC

article number: 0731



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

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

Physical state liquid

Colour clear - colourless
Odour like: - Gasoline
Melting point/freezing point not determined

Boiling point or initial boiling point and boiling 40 – 60 °C

range

Flammability flammable liquid in accordance with GHS criteria

Lower and upper explosion limit 1 vol% (LEL) - 8 vol% (UEL)

Flash point -40 °C
Auto-ignition temperature 260 °C

Decomposition temperature not relevant

pH (value) not determined Kinematic viscosity 0,41  $^{\rm mm^2}$ /s at 25  $^{\circ}$ C

Solubility(ies)

Water solubility (practically insoluble)

Partition coefficient

Partition coefficient n-octanol/water (log value): this information is not available

Vapour pressure 350 hPa at 20 °C

Density and/or relative density

Density  $0.65 \, {}^{g}/_{cm^3}$  at 20  ${}^{\circ}\text{C}$ 

Relative vapour density 3 (air = 1)

Particle characteristics not relevant (liquid)

Other safety parameters

Oxidising properties none

9.2 Other information

Information with regard to physical hazard There is no additional information.

classes:

Other safety characteristics: There is no additional information.

United Kingdom (en) Page 8 / 19

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

#### Petroleum ether 40-60 °C ROTISOLV® HPLC

article number: 0731



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

#### 10.1 Reactivity

The mixture contains reactive substance(s). 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

#### 10.4 Conditions to avoid

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

#### 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 toxicological effects

Test data are not available for the complete mixture.

#### **Classification procedure**

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### Classification acc. to GHS

#### **Acute toxicity**

Shall not be classified as acutely toxic.

### **Acute toxicity of components**

Name of substance	CAS No	Exposure route	Endpoint	Value	Species
n-Pentane	109-66-0	oral	LD50	>5.000 <sup>mg</sup> / <sub>kg</sub>	rat
n-Pentane	109-66-0	inhalation: va- pour	LC50	>25,3 <sup>mg</sup> / <sub>l</sub> /4h	rat

#### 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.

United Kingdom (en) Page 9 / 19

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

#### Petroleum ether 40-60 °C ROTISOLV® HPLC

article number: 0731



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).

#### **Aspiration hazard**

May be fatal if swallowed and enters airways.

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

#### If swallowed

vomiting, aspiration hazard

#### • If in eyes

causes slight to moderate irritation

#### If inhaled

headache, vertigo, drowsiness, dizziness, narcosis

### • If on skin

has degreasing effect on the skin, causes skin irritation

#### Other information

none

#### 11.2 Endocrine disrupting properties

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

#### 11.3 Information on other hazards

There is no additional information.

## **SECTION 12: Ecological information**

### 12.1 Toxicity

Toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components										
Name of sub- stance	CAS No	o Endpoint Value Species E			Exposure time					
n-Pentane	109-66-0	LC50	4,26 <sup>mg</sup> / <sub>l</sub>	rainbow trout (Onco- rhynchus mykiss)	96 h					
n-Pentane	109-66-0	EC50	2,7 <sup>mg</sup> / <sub>l</sub>	daphnia magna	48 h					

United Kingdom (en) Page 10 / 19



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

#### Petroleum ether 40-60 °C ROTISOLV® HPLC



#### 12.2 Persistence and degradability

#### **Biodegradation**

#### **Degradability of components**

Name of substance	CAS No	Process	Degrada- tion rate	Time	Method	Source
Hydrocarbons, C <sub>6</sub> , isoalkanes, <5% n-hexane	64742-49-0	oxygen deple- tion	83 %	10 d		ECHA
n-Pentane	109-66-0	oxygen deple- tion	87 %	28 d		ECHA

#### 12.3 Bioaccumulative potential

Data are not available.

#### **Bioaccumulative potential of components**

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Hydrocarbons, C <sub>6</sub> , isoalkanes, <5% n-hexane	64742-49-0	501,2	3,6 (pH value: 7, 20 °C)	
n-Pentane	109-66-0	171	3,45 (pH value: 7, 25 °C)	

#### 12.4 Mobility in soil

Data are not available.

#### 12.5 Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of  $\geq 0.1\%$ .

#### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq$  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.

### 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.

United Kingdom (en) Page 11 / 19



The relevant substances of the mixture are readily biodegradable.

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

#### Petroleum ether 40-60 °C ROTISOLV® HPLC

article number: 0731



### 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 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

ADRRID UN 3295 IMDG-Code UN 3295 ICAO-TI UN 3295

#### 14.2 UN proper shipping name

ADRRID HYDROCARBONS, LIQUID, N.O.S. IMDG-Code HYDROCARBONS, LIQUID, N.O.S.

ICAO-TI Hydrocarbons, liquid, n.o.s.

#### 14.3 Transport hazard class(es)

ADRRID 3
IMDG-Code 3
ICAO-TI 3

#### 14.4 Packing group

ADRRID II
IMDG-Code II
ICAO-TI II

### **14.5 Environmental hazards** hazardous to the aquatic environment

Environmentally hazardous substance (aquatic environment): Hydrocarbons, C<sub>6</sub>, isoalkanes, <5% n-hexane

#### 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

United Kingdom (en) Page 12 / 19

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

#### Petroleum ether 40-60 °C ROTISOLV® HPLC

article number: 0731



Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)Additional information

Proper shipping name HYDROCARBONS, LIQUID, N.O.S.

Particulars in the transport document UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, II,

(D/E), environmentally hazardous, special provi-

sion 640D

Classification code F1

Danger label(s) 3, "Fish and tree"





Environmental hazards yes (hazardous to the aquatic environment)

Special provisions (SP) 640D

Excepted quantities (EQ) E2

Limited quantities (LQ) 1 L

Transport category (TC) 2

Tunnel restriction code (TRC) D/E

Hazard identification No 33

Emergency Action Code 3YE

Regulations concerning the International Carriage of Dangerous Goods by Rail (RID)Additional information

....o....acion

Classification code F1

**Danger label(s)** 3, "Fish and tree"





Environmental hazards Yes

Hazardous to water

Special provisions (SP) 640D

**Excepted quantities (EQ)** E2

Limited quantities (LQ) 1 L

Transport category (TC) 2

Hazard identification No 33

International Maritime Dangerous Goods Code (IMDG) - Additional information

Proper shipping name HYDROCARBONS, LIQUID, N.O.S.

Particulars in the shipper's declaration UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, II, -

40°C c.c., MARINE POLLUTANT

Marine pollutant yes (hazardous to the aquatic environment)

Danger label(s) 3, "Fish and tree"





United Kingdom (en) Page 13 / 19

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

#### Petroleum ether 40-60 °C ROTISOLV® HPLC

article number: 0731

Special provisions (SP)

Excepted quantities (EQ) E2
Limited quantities (LQ) 1 L

EmS F-E, S-D

Stowage category B

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Proper shipping name Hydrocarbons, liquid, n.o.s.

Particulars in the shipper's declaration UN3295, Hydrocarbons, liquid, n.o.s., 3, II

Environmental hazards yes (hazardous to the aquatic environment)

Danger label(s) 3



Special provisions (SP)

Excepted quantities (EQ)

Limited quantities (LQ)

1 L

### **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

#### **Seveso Directive**

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

#### Notation

57) Hazardous to the Aquatic Environment in category Chronic 2

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

VOC content	100 %
VOC content	650 <sup>g</sup> / <sub>l</sub>

#### **Industrial Emissions Directive (IED)**

VOC content	100 %
VOC content	650 <sup>g</sup> / <sub>l</sub>

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

none of the ingredients are listed

United Kingdom (en) Page 14 / 19



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

#### Petroleum ether 40-60 °C ROTISOLV® HPLC

article number: 0731



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

none of the ingredients are listed

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

### List of pollutants (WFD)

Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
Hydrocarbons, C <sub>6</sub> , isoalkanes, <5% n-hexane	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)	

#### Legend

a)

Indicative list of the main pollutants

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

none of the ingredients are listed

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

none of the ingredients are listed

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

none of the ingredients are listed

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

none of the ingredients are listed

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

none of the ingredients are listed

#### National regulations(GB)

## List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list

none of the ingredients are listed

### Restrictions according to GB REACH, Annex 17

#### Dangerous substances with restrictions (GB REACH, Annex 17)

Name of substance	Name acc. to inventory	CAS No	No
Petroleum ether 40-60 °C	this product meets the criteria for classi- fication in accordance with Regulation No 1272/2008/EC		3
n-Pentane	flammable / pyrophoric		40
Hydrocarbons, C <sub>6</sub> , isoalkanes, <5% n-hex- ane	carcinogenic		28
Hydrocarbons, C <sub>6</sub> , isoalkanes, <5% n-hex- ane	germ cell mutagenic (mutagenic)		29
Hydrocarbons, C <sub>6</sub> , isoalkanes, <5% n-hex- ane	flammable / pyrophoric		40

United Kingdom (en) Page 15 / 19

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

#### Petroleum ether 40-60 °C ROTISOLV® HPLC

article number: 0731



#### 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	all ingredients are listed
CA	DSL	all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	all ingredients are listed
EU	REACH Reg.	all ingredients are listed
JP	CSCL-ENCS	not all ingredients are listed
KR	KECI	all ingredients are listed
MX	INSQ	all ingredients are listed
NZ	NZIoC	all ingredients are listed
PH	PICCS	all ingredients are listed
TR	CICR	all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	all ingredients are listed (ACTIVE)
VN	NCI	all ingredients are listed

Legend

Australian Inventory of Industrial Chemicals
Chemical Inventory and Control Regulation
List of Existing and New Chemical Substances (CSCL-ENCS)
Domestic Substances List (DSL)
EC Substance Inventory (EINECS, ELINCS, NLP)
Inventory of Existing Chemical Substances Produced or Imported in China
National Inventory of Chemical Substances
Korea Existing Chemicals Inventory AIIC CICR CSCL-ENCS DSL ECSI

**IECSC** 

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 Reg. REACH registered substances

Taiwan Chemical Substance Inventory **TCSI** 

**TSCA Toxic Substance Control Act** 

#### 15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

### SECTION 16: Other information

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

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.3	Results of PBT and vPvB assessment: Does not contain a PBT-/vPvB-substance in a concentration of ≥ 0,1%.	Results of PBT and vPvB assessment: Does not contain a PBT-/vPvB-substance at a concentration of ≥ 0,1%.	yes

United Kingdom (en) Page 16 / 19

# **Safety data sheet Safety data sheet** acc. to Regulation (EC) No. 1907/2006 (REACH)

### Petroleum ether 40-60 °C ROTISOLV® HPLC

article number: 0731



Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.3	Endocrine disrupting properties: Does not contain an endocrine disruptor (EDC) in a concentration of ≥ 0,1%.	Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.	yes
15.1	Water Framework Directive (WFD): none of the ingredients are listed	Water Framework Directive (WFD)	yes
15.1		List of pollutants (WFD): change in the listing (table)	yes
15.1		Dangerous substances with restrictions (GB REACH, Annex 17): change in the listing (table)	yes
15.1		National inventories: change in the listing (table)	yes

### **Abbreviations and acronyms**

Abbr.	Descriptions of used abbreviations
2006/15/EC	Commission Directive establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
Asp. Tox.	Aspiration hazard
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
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 identifier of substances commercially available within the EU (European Union)
ED	Endocrine disruptor
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-li- cence/)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
Flam. Liq.	Flammable liquid
GB REACH	The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)

United Kingdom (en) Page 17 / 19

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

#### Petroleum ether 40-60 °C ROTISOLV® HPLC

article number: 0731



Abbr.	Descriptions of used abbreviations
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
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
IOELV	Indicative occupational exposure limit value
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
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STEL	Short-term exposure limit
STOT SE	Specific target organ toxicity - single exposure
TWA	Time-weighted average
UEL	Upper explosion limit (UEL)
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

### Key literature references and sources for data

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

United Kingdom (en) Page 18 / 19

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

#### Petroleum ether 40-60 °C ROTISOLV® HPLC

article number: 0731



#### **Classification procedure**

Physical and chemical properties. The classification is based on tested mixture. Health hazards. Environmental hazards. The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### 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.

United Kingdom (en) Page 19 / 19