

Product no.: 221-44247-08

Current version: 1.0.0. issued: 12.03.2020 Region: GB Replaced version: -, issued: -

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

Product identifier

Trade name

Standard Sample for GC FID

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

Relevant identified uses of the substance or mixture

General chemical processes

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet

Address

Shimadzu Europa GmbH Albert-Hahn-Str. 6-10 Duisburg 47269

Telephone no. +49 (0)203 - 7687-0 Fax no. +49 (0)203 - 711045 Information provided by / telephone

Tel.: +49 (0)203 - 7687-0 **Advice on Safety Data Sheet**

sdb_info@umco.de

1.4 **Emergency telephone number**

For medical advice (in German and English): +49 (0)551 192 40 (Giftinformationszentrum Nord)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Asp. Tox. 1; H304 Flam. Liq. 2; H225 Skin Irrit. 2; H315 STOT SE 3; H336

Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008: Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements

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

Hazard pictograms









Signal word

Danger

Hazardous component(s) to be indicated on label:

heptane

Hazard statement(s)

Highly flammable liquid and vapour. H225

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

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

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P273 Avoid release to the environment.

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

P331 Do NOT induce vomiting.

P370+P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.

P391 Collect spillage.

2.3 Other hazards

No data available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Chemical characterization

Mixture (preparation)

Hazardous ingredients

No	Substance name		Additional information	
	CAS / EC / Index /	Classification (EC) 1272/2008 (CLP)	Concentration	%
	REACH no			
1	heptane			
	142-82-5	Aquatic Acute 1; H400	< 100.00	%-b.w.
	205-563-8	Aquatic Chronic 1; H410		
	601-008-00-2	Asp. Tox. 1; H304		
	-	Flam. Liq. 2; H225		
		Skin Irrit. 2; H315		
		STOT SE 3; H336		

Full Text for all H-phrases and EUH-phrases: pls. see section 16

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	С	-	-	-

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. If the patient is likely to become unconscious, place and transport in stable sideways position.

After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air. Irregular breathing/no breathing: artificial respiration. Call a doctor immediately.

After skin contact

Wash off immediately with soap and water. Don't use solvents.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Seek medical assistance.

After ingestion

Rinse mouth thoroughly with water. Do not induce vomiting. Call a doctor immediately. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam; Extinguishing powder; Carbon dioxide; Water spray jet

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture



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In the event of fire, the following can be released: Carbon monoxide (CO); Carbon dioxide (CO2); Combustion products of this material have to be classed invariably as respiratory poison.

5.3 Advice for firefighters

Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus. Cool endangered containers with water spray jet. Suppress gases/vapours/mists with water spray jet. Wear protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Keep away from ignition sources.

For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g., sand, sawdust, general-purpose binder). Send in suitable containers for recovery or disposal.

6.4 Reference to other sections

No data available

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Provide good ventilation at the work area (local exhaust ventilation, if necessary). If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn. Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances.

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Avoid contact with eyes and skin. Remove soiled or soaked clothing immediately. Do not inhale vapours. Wash hands before breaks and after work. Provide eye wash fountain in work area. Have emergency shower available.

Advice on protection against fire and explosion

Vapours can form an explosive mixture with air. Take precautionary measures against static charges. Keep away from sources of heat and ignition. Use explosion-proof equipment/fittings and non-sparking tools.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep container tightly closed in a cool, well-ventilated place. Protect from heat and direct sunlight. Keep under nitrogen.

Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original.

Incompatible products

Do not store together with oxidizing agents.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

No	Substance name	CAS no.		EC no.	
1	heptane	142-82-5		205-563-8	
	2000/39/EC				
	n-Heptane				
	WEL long-term (8-hr TWA reference period)	2085	mg/m³	500	ppm
	List of approved workplace exposure limits (WELs) / EH40				
	n-Heptane				
	WEL long-term (8-hr TWA reference period)	2085	mg/m³	500	ppm



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8.2 Exposure controls

Appropriate engineering controls

No data available.

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Eye / face protection

Safety glasses with side protection shield (EN 166)

Hand protection

In case of intensive contact, wear protective gloves (EN 374). Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Other

Normal chemical work clothing.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form/Colour						
liquid						
colourless, clear						
Odour						
characteristic						
Odour threshold						
No data available						
pH value						
No data available						
Boiling point / boiling range						
Value		98	°C			
Reference substance	Heptane					
Source	Manufacturer					
Melting point / melting range						
Value		-91	°C			
Source	Manufacturer					
Decomposition point / decomposition range						
No data available						
Flash point						
Value		-1	°C			
Method	closed cup					
Reference substance	Heptane					
Source	Manufacturer					
Auto-ignition temperature						
Value		204	°C			
Oxidising properties						
No data available						
Explosive properties						
No data available						
Flammability (solid, gas)			<u> </u>			
No data available						
Lower flammability or explosive limits						
Value		1.2	% vol			
Upper flammability or explosive limits						
Value		6.7	% vol			



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Vapour pressure				
Value		3.6	kPa	
Reference temperature		20	°C	
Vanaum danaitu				
Vapour density		0.40		
Value		3.48		
Source	Manufacturer			
Comments	Air = 1			
Evaporation rate				
No data available				
Relative density				
No data available				
Density				
Value	0.682 -	- 0.686	g/ml	
Reference temperature		20	°C	
Solubility in water				
Comments	slightly soluble			
Solubility(ies)				
No data available				
Partition coefficient: n-octanol/water				
No data available				
Viscosity				
No data available				

9.2 Other information

Other information	
No data available.	

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable if stored and handled properly.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Heat, naked flames and other ignition sources. Protect from sun.

10.5 Incompatible materials

Oxidizing agents

10.6 Hazardous decomposition products

Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity					
No	Substance name		CAS no.		EC no.
1	heptane		142-82-5		205-563-8
LD50)	>		5000	mg/kg bodyweight
Spec	cies	rat			
Meth	od	OECD 401			
Sour	ce	ECHA			

Acut	Acute dermal toxicity					
No	Substance name	CAS no.		EC no.		
1	heptane	142-82-5		205-563-8		
LD50		>	2000	mg/kg bodyweight		
Spec	ies	rabbit				
Meth	od	OECD 402				
Sour	ce	ECHA				



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Acut	Acute inhalational toxicity					
No	Substance name	(CAS no.		EC no.	
1	heptane		142-82-5		205-563-8	
LC50		>		29.29	mg/l	
Dura	tion of exposure			4	h	
State	of aggregation	Vapour				
Spec	ies	rat				
Meth	od	OECD 403				
Sour	ce	ECHA				

Skin	Skin corrosion/irritation					
No	Substance name	CAS no.	EC no.			
1	heptane	142-82-5	205-563-8			
Spec	ies	rabbit				
Meth	od	OECD 404				
Sour	ce	ECHA				
Evalu	ation	irritant				

Serio	Serious eye damage/irritation					
No	Substance name	CAS no.	EC no.			
1	heptane	142-82-5	205-563-8			
Spec	ies	rabbit				
Meth	od	OECD 405				
Sour	ce	ECHA				
Evalu	uation	non-irritant				

Resp	Respiratory or skin sensitisation						
No	Substance name	CAS no.	EC no.				
1	heptane	142-82-5	205-563-8				
Rout	e of exposure	Skin					
Spec	ties	guinea pig					
Meth	od	OECD 406					
Source		ECHA					
Evalu	uation	non-sensitizing					

Germ cell mutagenicity				
No	Substance name	CAS no.	EC no.	
1	heptane	142-82-5	205-563-8	
Sour	ce	ECHA		
Eval	uation/classification	Based on available data, the classification criteria are not met.		

Reproduction toxicity				
No	Substance name	CAS no.	EC no.	
1	heptane	142-82-5	205-563-8	
Sour	ce	ECHA		
Evaluation/classification		Based on available data, the classification criteria are not met.		

Carcinogenicity No data available

STOT - single exposure No data available

STO	STOT - repeated exposure				
No	Substance name	CAS no.	EC no.		
1	heptane	142-82-5	205-563-8		
Source		ECHA			
Evaluation/classification		Based on available data, the classification criteria are not met.			

Aspiration hazard	
No data available	

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)		
No data available		
Toxicity to fish (chronic)		
No data available		
Toxicity to Daphnia (acute)		
No data available		

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Toxicity to Daphnia (chronic)

No data available

Toxicity to algae (acute)

No data available

Toxicity to algae (chronic)

No data available

Bacteria toxicity

No data available

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information

14.1 Transport ADR/RID/ADN

Class 3
Classification code F1
Packing group II
Hazard identification no. 33
UN number UN1206
Proper shipping name HEPTANES
Technical name heptane
Tunnel restriction code D/E
Label 3

Environmentally hazardous Symbol "fish and tree"

substance mark

14.2 Transport IMDG

Class 3
Packing group II
UN number UN1206
Proper shipping name HEPTANES
Technical name heptane
EmS F-E, S-D
Marine Pollutant (according Index

IMDG Code)

Label 3

Marine pollutant mark Symbol "fish and tree"

14.3 Transport ICAO-TI / IATA

Class 3
Packing group II
UN number UN1206
Proper shipping name Heptanes
Technical name heptane
Label 3

14.4 Other information



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No data available

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

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

Not relevant

SECTION 15: Regulatory information

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

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annexe XVII. No 3, 40

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is subject to Part I of Annex I, risk category:

E1, P5b

If the properties of the substance/product give rise to more than one classification, for the purposes of 2012/18/UE, the lowest qualifying quantities set out in Part 1 and Part 2 of Annex I shall apply.

Other regulations

Employment restrictions, according to the regulations for protection of expectant and nursing mothers and the youth health and safety regulations, serving to protect against hazardous materials, should be observed.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

SECTION 16: Other information

Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H400 Very toxic to aquatic life.

Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)

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.

Department issuing safety data sheet

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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