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	on date on date	12th September 2019 16th March 2023	Version	5.0	
Revis	on uale		Version	5.0	
SECT	ION 1: Identification	of the substance/mixture a	and of the company/und	ertaking	
1.1.	Product identifier		n-Heptane		
	Substance / mixture		substance		
	Chemical name		heptane		
	CAS number		142-82-5		
	Index number		601-008-00-2		
	EC (EINECS) number		205-563-8		
	Registration number		01-2119457603-38	3-0000	
	Other substance nam	e			
	Dimethylpentar	1			
1.2.	Relevant identified	uses of the substance or n	lixture and uses advised	against	
1.2.	Relevant identified Substance's intende		lixture and uses advised	against	
1.2.	Substance's intend			-	
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1.2.	Substance's intend Chemical production, Substance uses adv	ed use analytical chemistry, laborato	ry synthesis, industrial app	lications.	
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2.1. Classification of the substance or mixture

Classification of the substance in accordance with Regulation (EC) No 1272/2008 The substance is classified as dangerous.

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

Most serious adverse physico-chemical effects

Highly flammable liquid and vapour.

Most serious adverse effects on human health and the environment

May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

enta[°]CHEMICALS

Safety data sheet

SAFETY DATA SHEET							
	according to Regulation (EC)	No 1907/2006 (REACH) a	as amended				
n-Heptane							
Creation date12th September 2019Revision date16th March 2023		Version	5.0				
2.2. Label elemen Hazard pictog							



Signal word Danger F Н

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.
H410	Very toxic to aquatic life with long lasting effects.
Precautionary statements	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P243	Take action to prevent static discharges.
P273	Avoid release to the environment.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER.
P331	Do NOT induce vomiting.

2.3. **Other hazards**

The substance does not have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Substance does not meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical characterization

The substance specified below.

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
	substance main component			
Index: 601-008-00-2 CAS: 142-82-5 EC: 205-563-8 Registration number: 01-2119457603-38- 0000	heptane	≥95	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	1, 2

Notes

- Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of 1 several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
- 2 A substance for which exposure limits are set.

Full text of all classifications and hazard statements is given in the section 16.



SAFETY DATA SHEET

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SECTION 4: First aid measures

4.1. Description of first aid measures

Do not perform artificial respiration without self-protection (e.g. a mask). Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Take care of your own safety, do not let the affected person walk! Beware of the contaminated clothes. Depending on the situation, call the medical rescue service and ensure medical treatment considering the frequent need of further observation for at least 24 hours.

If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists. Rinse skin with water or shower.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

If swallowed

If the affected person vomits, make sure to prevent inhalation of the vomit (as there is a danger of lung damage after inhalation of these liquids in the airways also in infinitesimal amount). Provide medical treatment considering the frequent need of further observation for at least 24 hours. Bring an original container with the label and the Safety Data Sheet of the given substance as appropriate.

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

If inhaled

Cough, headache. May cause drowsiness or dizziness.

If on skin

Causes skin irritation.

If in eyes

Not expected.

If swallowed

Irritation, nausea.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist. **Unsuitable extinguishing media**

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.



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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide sufficient ventilation. The substance is flammable. Remove all ignition sources. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes.

6.2. **Environmental precautions**

Prevent contamination of the soil and entering surface or ground water. Do not allow to enter drains.

6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

6.4. **Reference to other sections**

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent formation of gases and vapours in flammable or explosive concentrations and concentrations exceeding the occupational exposure limits. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes. No smoking. Wash hands and exposed parts of the body thoroughly after handling. Use only outdoors or in a well-ventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take action to prevent static discharges. Avoid release to the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Do not expose to sunlight. Store locked up. Keep container tightly closed. Keep cool.

Storage class

3A - Flammable liquids (flash point below 55 °C) The specific requirements or rules relating to the substance/mixture

Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air.

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

European Union	Commission Directive 2	Commission Directive 2000/39/EC		
Substance name (component)	Type Value			
hantana (CAS) 142.82 E)	OEL 8 hours 2085 mg/	m³		
heptane (CAS: 142-82-5)	OEL 8 hours 500 ppm			



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8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Protective goggles.

Skin protection

Hand protection: Protective gloves resistant to the product (nitrile rubber). When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

Respiratory protection

Mask with a filter against organic vapours in a poorly ventilated environment. Respirator.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2. Collect spillage.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Information on busic physical and enclinear prope	
Physical state	liquid
Colour	colourless
Odour	characteristic
Melting point/freezing point	-90 °C
Boiling point or initial boiling point and boiling range	96.5-98.5 °C
Flammability	Highly flammable liquid and vapour.
Lower and upper explosion limit	
bottom	1 %
upper	7 %
Flash point	-4 °C
Auto-ignition temperature	data not available
Decomposition temperature	data not available
рН	data not available
Kinematic viscosity	0.6 mm²/s at 40 °C
Solubility in water	data not available
Solubility in fats	data not available
Partition coefficient n-octanol/water (log value)	4.66
Vapour pressure	4.8 kPa at 20 °C
Density and/or relative density	
Density	0.684 g/cm ³ at 20 °C
Relative density	data not available
Relative vapour density	data not available
Particle characteristics	data not available
Other information	
Evaporation rate	data not available
Ignition temperature	220 °C

SECTION 10: Stability and reactivity

10.1. Reactivity

9.2.

The substance is highly flammable.



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10.2.	The product is	stable under normal conditions.			
10.3.	Possibility of Unknown.	hazardous reactions			
10.4.	Conditions to	avoid			
	The product is against frost.	stable and no degradation occurs un	nder normal use. Protec	: against flames, sparks, ov	erheating and
10.5.	Incompatible	materials			
	Protect against	strong acids, bases and oxidizing ag	ents.		
10.6.	Hazardous de	composition products			
	Not developed	under normal uses. Dangerous outc	omes such as carbon mo	pnoxide and carbon dioxide	are formed at

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

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

No toxicological data is available for the substance. Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time.

Acute toxicity

not available

heptane

neptane								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex		
Oral	LD50	OECD 401	>5000 mg/kg		Rat (Rattus norvegicus)	F/M		
Dermal	LD 50	OECD 402	>2000 mg/kg		Rabbit	F/M		
Inhalation	LC50	OECD 403	>29.29 mg/l	4 hours	Rat (Rattus norvegicus)	F/M		

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Based on available data the classification criteria are not met.

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

Germ cell mutagenicity

not available

Carcinogenicity

Based on available data the classification criteria are not met.

Reproductive toxicity

Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure

May cause drowsiness or dizziness.



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Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

Aspiration hazard

May be fatal if swallowed and enters airways.

11.2. Information on other hazards

The substance does not have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 12: Ecological information

12.1. Toxicity

Very toxic to aquatic life with long lasting effects. **Acute toxicity**

heptane					
Parameter	Value	Exposure time	Species	Environment	
EC₅o	1.5 mg/l	48 hours	Daphnia (Daphnia magna)		

12.2. Persistence and degradability

not available

Biodegradability

n-Heptane					
Parameter	Value	Exposure time	Environment	Result	
				Easily biodegradable	

heptane					
Parameter	Value	Exposure time	Environment	Result	
	70 %	10 days		Biodegradable	

12.3. Bioaccumulative potential

Not available.

12.4. Mobility in soil

Not available.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms as it does not meet the criteria set out in section B of Regulation (EU) No 2017/2100.

12.7. Other adverse effects

Not available.

SECTION 13: Disposal considerations



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according to Regulation	(FC	$N_0 1907/2006$	(REACH) as among	hoł
) NO 1907/2000	(REACIT) as amend	ieu

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13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

SECTION 14: Transport information

SECTI	ON 14: Transport information	
14.1.	UN number or ID number	
	UN 1206	
14.2.	UN proper shipping name	
	HEPTANES	
14.3.		
	3 Flammable liquids	
14.4.	5500	
	II	
14.5.	Environmental hazards	
	not relevant	
14.6.	Special precautions for user	
	Reference in the Sections 4 to 8.	to TNO is shown on to
14.7.	Maritime transport in bulk according not relevant	to IMO instruments
	Additional information	
	Hazard identification No.	33
	UN number	1206
	Classification code	F1
	Safety signs	3+hazardous for the environment
		3
	Turnel as this time as do	* *
	Tunnel restriction code	(D/E)
	Air transport - ICAO/IATA	
	Packaging instructions passenger	353
	Cargo packaging instructions	364
	Marine transport - IMDG	
_	EmS (emergency plan)	F-E, S-D



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SECTION 15: Regulatory information

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out.

SECTION 16: Other information

A list of standard risk phras	es used in the safety data sheet		
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.		
H400	Very toxic to aquatic life.		
H410	Very toxic to aquatic life with long lasting effects.		
Guidelines for safe handling	used in the safety data sheet		
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.		
P243	Take action to prevent static discharges.		
P273	Avoid release to the environment.		
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER.		
P331	Do NOT induce vomiting.		
Other important information	about human health protection		
	ess specifically approved by the manufacturer/importer - used for purposes other than is responsible for adherence to all related health protection regulations.		
Key to abbreviations and ac	ronyms used in the safety data sheet		
ADR	European agreement concerning the international carriage of dangerous goods by road		
BCF	Bioconcentration Factor		
CAS	Chemical Abstracts Service		
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures		
EC	Identification code for each substance listed in EINECS		
EC50	Concentration of a substance when it is affected 50% of the population		
EINECS	European Inventory of Existing Commercial Chemical Substances		
EmS	Emergency plan		
EU	European Union		
EuPCS	European Product Categorisation System		
IATA	International Air Transport Association		
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals		
ICAO	International Civil Aviation Organization		
IMDG	International Maritime Dangerous Goods		
IMO	International Maritime Organization		
INCI	International Nomenclature of Cosmetic Ingredients		
ISO	International Organization for Standardization		
IUPAC	International Union of Pure and Applied Chemistry		



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LC50	Lethal concentration	on of a substance in which	n it can be expected death of 50% of the		
LD 50	Lethal dose of a suppopulation	ubstance in which it can be	e expected death of 50% of the		
log Kow	Octanol-water par	tition coefficient			
OEL	Occupational Expo	sure Limits			
PBT	Persistent, Bioacci	umulative and Toxic			
ppm	Parts per million				
REACH	Registration, Evalu	uation, Authorisation and F	Restriction of Chemicals		
RID	Agreement on the transport of dangerous goods by rail				
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations				
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials				
VOC	Volatile organic co	mpounds			
vPvB	Very Persistent an	d very Bioaccumulative			
Aquatic Acute	Hazardous to the	aquatic environment			
Aquatic Chronic	Hazardous to the	aquatic environment (chro	onic)		
Asp. Tox.	Aspiration hazard				
Flam. Liq.	Flammable liquid				
Skin Irrit.	Skin irritation				
STOT SE	Specific target org	an toxicity - single exposu	ıre		
Training guidelines					

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

The version 5.0 replaces the SDS version from 11 April 2022. Changes were made in sections 1, 2, 13, 15 and 16. More information

Classification procedure - calculation method.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.