

SAFETY DATA SHEET

according to REACH Regulation (EC) No. 1907/2006, as amended by UK REACH Regulations SI 2019/758



n-Heptanoic acid
10520

Version / Revision 4.01
Supersedes Version 4.00***

Revision Date 26-Jan-2023
Issuing date 26-Jan-2023

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

1.1. Product identifier

Identification of the substance/preparation

n-Heptanoic acid

Chemical Name Heptanoic acid
CAS-No 111-14-8
EC No. 203-838-7

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

Identified uses Transported isolated intermediate (1907/2006)
Uses advised against None

1.3. Details of the supplier of the safety data sheet

Company/Undertaking Identification **OQ Chemicals GmbH**
Rheinpromenade 4A
D-40789 Monheim
Germany

Product Information Product Stewardship
FAX: +49 (0)208 693 2053
email: sc.psq@oq.com

1.4. Emergency telephone number

Emergency telephone number +44 (0) 1235 239 670 (UK)
available 24/7

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

This substance is classified based on Directive 1272/2008/EC and its amendments (CLP Regulation)

Acute inhalation toxicity Category 4, H332
Skin corrosion/irritation Category 1B, H314
Serious eye damage/eye irritation Category 1, H318
Target Organ Systemic Toxicant - Single exposure Category 3, H335

Additional information

For full text of Hazard- and EU Hazard-statements see SECTION 16.

2.2. Label elements

Labelling according to Regulation 1272/2008/EC and its amendments (CLP Regulation).

Hazard pictograms

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Signal word

Danger

Hazard statements

H332: Harmful if inhaled.
H314: Causes severe skin burns and eye damage.
H335: May cause respiratory irritation.

Precautionary statements

P260: Do not breathe gas/mist/vapours.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a POISON CENTER/doctor.
P403 + P233: Store in a well ventilated place. Keep container tightly closed.

2.3. Other hazards

Components of the product may be absorbed into the body by inhalation

PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT), nor very persistent nor very bioaccumulating (vPvB)

Endocrine disrupting assessments

The substance is not listed on the candidate list according to Art. 59(1), REACH. The substance was not assessed as having endocrine disrupting properties according to regulation 2017/2100/EU or 2018/605/EU.

SECTION 3: Composition / information on ingredients

3.1. Substances

Component	CAS-No	1272/2008/EC	Concentration (%)
Heptanoic acid	111-14-8	Acute Tox. 4; H332 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT SE 3; H335 ATE = 4,7 mg/L (inhalation) (dust/mist)	> 95,5

For full text of Hazard- and EU Hazard-statements see SECTION 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

Keep at rest. Aerate with fresh air. Symptoms of poisoning may develop many hours after exposure. Call a physician immediately.

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Skin

Wash off immediately with soap and plenty of water. When symptoms persist or in all cases of doubt seek medical advice.

Eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.

Ingestion

Call a physician immediately. Do not induce vomiting without medical advice.

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

Main symptoms

cough, headache, nausea, shortness of breath, vomiting, convulsions.

Special hazard

Lung irritation, Lung oedema.

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

General advice

Remove contaminated, soaked clothing immediately and dispose of safely. First aider needs to protect himself.

Treat symptomatically. If ingested, flush stomach and compensate acidosis.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

foam, dry chemical, carbon dioxide (CO₂), water spray

Unsuitable Extinguishing Media

Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Under conditions giving incomplete combustion, hazardous gases produced may consist of:

carbon monoxide (CO)

carbon dioxide (CO₂)

Combustion gases of organic materials must in principle be graded as inhalation poisons

Vapours are heavier than air and may spread along floors

5.3. Advice for firefighters

Special protective equipment for firefighters

Fire fighter protection should include a self-contained breathing apparatus (NIOSH-approved or EN 133) and full fire-fighting turn out gear.

Precautions for firefighting

Cool containers / tanks with water spray. Water run-off and vapor cloud may be corrosive. Dike and collect water used to fight fire. Keep people away from and upwind of fire.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: For personal protective equipment see section 8. Avoid contact with skin and eyes. Avoid breathing vapors or mists. Keep people away from and upwind of spill/leak. Ensure adequate ventilation, especially in confined areas. Keep away from heat and sources of ignition.

For emergency responders: Personal protection see section 8.

6.2. Environmental precautions

Prevent further leakage or spillage. Do not discharge product into the aquatic environment without pretreatment (biological treatment plant).

6.3. Methods and material for containment and cleaning up

Methods for containment

Stop the flow of material, if possible without risk. Dike spilled material, where this is possible.

Methods for cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum. Dispose of in accordance with local regulations. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).

6.4. Reference to other sections

For personal protective equipment see section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Provide sufficient air exchange and/or exhaust in work rooms.

Hygiene measures

When using, do not eat, drink or smoke. Take off all contaminated clothing immediately. Wash hands before breaks and immediately after handling the product.

Advice on the protection of the environment

See Section 8: Environmental exposure controls.

Incompatible products

bases
amines

7.2. Conditions for safe storage, including any incompatibilities

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). In case of fire, emergency cooling with water spray should be available. Ground and bond containers when transferring material.

Technical measures/Storage conditions

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Keep containers tightly closed in a cool, well-ventilated place. Handle and open container with care. Keep at temperatures between 0 and 38 °C (32 and 100 °F).

Temperature class
T3

7.3. Specific end use(s)

Transported isolated intermediate (1907/2006)

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Exposure limits European Union

No exposure limits established

Exposure limits UK

No exposure limits established.

DNEL & PNEC

This substance is registered as intermediate under strictly controlled conditions.

Heptanoic acid, CAS: 111-14-8

Workers

DN(M)EL - long-term exposure - systemic effects - Inhalation	98,7 mg/m ³
DN(M)EL - acute / short-term exposure - systemic effects - Inhalation	Medium hazard (no threshold derived)
DN(M)EL - long-term exposure - local effects - Inhalation	Medium hazard (no threshold derived)
DN(M)EL - acute / short-term exposure - local effects - Inhalation	Medium hazard (no threshold derived)
DN(M)EL - long-term exposure - systemic effects - Dermal	14 mg/kg bw/day
DN(M)EL - acute / short-term exposure - systemic effects - Dermal	Medium hazard (no threshold derived)
DN(M)EL - long-term exposure - local effects - Dermal	Medium hazard (no threshold derived)
DN(M)EL - acute / short-term exposure - local effects - Dermal	Medium hazard (no threshold derived)
DN(M)EL - local effects - eyes	Medium hazard (no threshold derived)

General population

DN(M)EL - long-term exposure - systemic effects - Inhalation	8,7 mg/m ³
DN(M)EL - acute / short-term exposure - systemic effects - Inhalation	Hazard unknown (no further information necessary)
DN(M)EL - long-term exposure - local effects - Inhalation	Medium hazard (no threshold derived)

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DN(M)EL - acute / short-term exposure - local effects - Inhalation

derived)
Hazard unknown (no further information necessary)

DN(M)EL - long-term exposure - systemic effects - Dermal

5 mg/kg bw/day

DN(M)EL - acute / short-term exposure - systemic effects - Dermal

Hazard unknown (no further information necessary)

DN(M)EL - long-term exposure - local effects - Dermal

Medium hazard (no threshold derived)

DN(M)EL - acute / short-term exposure - local effects - Dermal

Medium hazard (no threshold derived)

DN(M)EL - long-term exposure - systemic effects - Oral

Medium hazard (no threshold derived)

DN(M)EL - acute / short-term exposure - systemic effects - Oral

5 mg/kg bw/day

DN(M)EL - local effects - eyes

Medium hazard (no threshold derived)

Environment

PNEC aqua - freshwater

0,4 mg/l

PNEC aqua - marine water

0,04 mg/l

PNEC STP

1000 mg/l

PNEC sediment - freshwater

2,08 mg/kg dw

PNEC sediment - marine water

0,21 mg/kg dw

PNEC Air

No hazard identified

PNEC soil

0,12 mg/kg dw

Secondary poisoning

No potential for bioaccumulation

8.2. Exposure controls

Special adaptations (REACH)

Not applicable.

Appropriate Engineering controls

General or dilution ventilation is frequently insufficient as the sole means of controlling employee exposure. Local ventilation is usually preferred. Explosion-proof equipment (for example fans, switches, and grounded ducts) should be used in mechanical ventilation systems.

Personal protective equipment

General industrial hygiene practice

Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Ensure that eyewash stations and safety showers are close to the workstation location.

Hygiene measures

When using, do not eat, drink or smoke. Take off all contaminated clothing immediately. Wash hands before breaks and immediately after handling the product.

Eye protection

Tightly fitting safety goggles. In addition to goggles, wear a face shield if there is a reasonable chance for splash to the face.

Equipment should conform to EN 166

Hand protection

Wear protective gloves. Recommendations are listed below. Other protective material may be used, depending on the situation, if adequate degradation and permeation data is available. If other chemicals are used in conjunction

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with this chemical, material selection should be based on protection for all chemicals present.

Suitable material nitrile rubber
Evaluation according to EN 374: level 6
Glove thickness approx 0.55 mm
Break through time > 480 min

Suitable material polyvinylchloride / nitrile rubber
Evaluation according to EN 374: level 6
Glove thickness approx 0.9 mm
Break through time > 480 min

Skin and body protection

Impervious clothing. Wear face-shield and protective suit for abnormal processing problems.

Environmental exposure controls

If possible use in closed systems. If leakage can not be prevented, the substance needs to be suck off at the emersion point, if possible without danger. If recycling is not practicable, dispose of in compliance with local regulations. Inform the responsible authorities in case of leakage into the atmosphere, or of entry into waterways, soil or drains.

Additional advice

Further details on substance data can be found in the registration dossier under the following link:
<http://echa.europa.eu/information-on-chemicals/registered-substances>.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid				
Colour	colourless				
Odour	pungent				
Odour threshold	0,6 - 10,4 ppm				
Melting point/freezing point	-8 °C				
Boiling point or initial boiling point and boiling range	223 °C @ 1013 hPa				
Flammability	Even if not classified as flammable, the product is capable of catching fire or being set on fire.***				
Lower explosion limit	1,09 Vol %				
Upper explosion limit	10,1 Vol %				
Flash point	117 °C @ 1013 hPa				
Method	DIN EN ISO 3679				
Autoignition temperature	275 °C				
Method	EU A.15				
Decomposition temperature	No data available				
pH	4,8 @ 20 °C (68 °F)				
Kinematic Viscosity	3,704 mm ² /s @ 30 °C				
Solubility	1,96 - 5,32 g/l @ 25 °C, in water				
Partition coefficient n-octanol/water (log value)	2,54 (calculated) KOW WIN				
Vapour pressure					
Values [hPa]	Values [kPa]	Values [atm]	@ °C	@ °F	Method
0,013	0,0013	< 0,001	20	68	OECD 104
0,2	0,02	< 0,001	50	122	OECD 104
Density and/or relative density					

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Values	@ °C	@ °F	Method
0,918	20	68	
Relative vapour density	4,5 (Air = 1) @ 20 °C (68 °F)		
Particle characteristics	not applicable		

9.2. Other information

Explosive properties	Does not apply, substance is not explosive. There are no chemical groups associated with explosive properties
Oxidizing properties	Does not apply, substance is not oxidising. There are no chemical groups associated with oxidizing properties
Molecular weight	130,19
Molecular formula	C7 H14 O2
log Koc	1,2 calculated
Dissociation constant	pKa 4,75 @ 20 °C (68 °F) (calculated)
Refractive index	1,422 @ 20 °C
Evaporation rate	No data available

SECTION 10: Stability and Reactivity

10.1. Reactivity

The reactivity of the product corresponds to the typical reactivity shown by the substance group as described in any text book on organic chemistry.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur.

10.4. Conditions to avoid

Avoid contact with heat, sparks, open flame and static discharge. Avoid any source of ignition.

10.5. Incompatible materials

bases, amines.

10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

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

Likely routes of exposure Ingestion, Inhalation, Eye contact, Skin contact

Acute toxicity				
Heptanoic acid (111-14-8)				
Routes of Exposure	Endpoint	Values	Species	Method

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Inhalative	LC50	> 4,6 mg/l (4h)	rat, male/female	OECD 403
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Heptanoic acid, CAS: 111-14-8

Assessment

The available data lead to the classification given in section 2

Dermal acute toxicity data were not determined, because of the corrosive properties of the substance

For acute oral toxicity, no data are available

Irritation and corrosion				
Heptanoic acid (111-14-8)				
Target Organ Effects	Species	Result	Method	
Skin	rabbit	corrosive	OECD 404	
Respiratory tract	rat	irritating	OECD 403	4h

Heptanoic acid, CAS: 111-14-8

Assessment

The available data lead to the classification given in section 2

Available skin corrosion data suffice for classification of eye corrosion without further testing

Sensitization				
Heptanoic acid (111-14-8)				
Target Organ Effects	Species	Evaluation	Method	
Skin	guinea pig	not sensitizing	OECD 406	

Heptanoic acid, CAS: 111-14-8

Assessment

Based on available data, the classification criteria are not met for:

Skin sensitization

For respiratory sensitization, no data are available

Subacute, subchronic and prolonged toxicity				
Heptanoic acid (111-14-8)				
Type	Dose	Species	Method	
Subacute toxicity	NOAEL: 1750 mg/kg/d	rat, male/female	OECD 407	Oral
Subacute toxicity	LOAEL: 3500 mg/kg/d	rat, male/female	OECD 407	Oral
Subchronic toxicity	NOAEL: 1000 mg/kg/d	rat, male/female	OECD 408	Oral

Heptanoic acid, CAS: 111-14-8

Assessment

Based on available data, the classification criteria are not met for:

STOT RE

Carcinogenicity, Mutagenicity, Reproductive toxicity					
Heptanoic acid (111-14-8)					
Type	Dose	Species	Evaluation	Method	
Mutagenicity		Salmonella typhimurium	negative	OECD 471 (Ames)	In vitro study
Developmental Toxicity	NOAEL 1000 mg/kg/d	rat		OECD 414, Oral	Maternal toxicity
Developmental Toxicity	NOAEL 1000 mg/kg/d	rat		OECD 414, Oral	Teratogenicity

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Mutagenicity		human lymphocytes	negative	OECD 473 (Chromosomal Aberration)	In vitro study
Mutagenicity		mouse lymphoma cells	negative	OECD 476 (Mammalian Gene Mutation)	In vitro study
Developmental Toxicity	NOAEL 300 mg/kg/d	rabbit		OECD 414, Oral	Maternal toxicity
Developmental Toxicity	NOAEL > 1000 mg/kg/d	rabbit		OECD 414, Oral	Fetal toxicity, Embryotoxicity
Reproductive toxicity	NOAEL < 200 mg/kg/d	rat, parental, female		OECD 421	Maternal toxicity
Reproductive toxicity	NOAEL 1000 mg/kg/d	rat, 1. Generation, male/female		OECD 421	

Heptanoic acid, CAS: 111-14-8

CMR Classification

The available data on CMR properties are summarized in the table above. They do not indicate a classification into categories 1A or 1B

Evaluation

Based on available data, the classification criteria are not met for:

Reproductive toxicity
Developmental toxicity
Mutagenicity

Heptanoic acid, CAS: 111-14-8

Main symptoms

cough, headache, nausea, shortness of breath, vomiting, convulsions.

Target Organ Systemic Toxicant - Single exposure

The available data lead to the classification given in section 2

Target Organ Systemic Toxicant - Repeated exposure

Based on available data, the classification criteria are not met for:

STOT RE

Aspiration toxicity

no data available

11.2. Information on other hazards

Endocrine disrupting properties

The substance has not been identified as having endocrine disrupting properties in accordance with section 2.3.

Heptanoic acid, CAS: 111-14-8

Other adverse effects

Components of the product may be absorbed into the body by inhalation.

Note

Handle in accordance with good industrial hygiene and safety practice. Further details on substance data can be found in the registration dossier under the following link:

<http://echa.europa.eu/information-on-chemicals/registered-substances>.

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity

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Heptanoic acid (111-14-8)			
Species	Exposure time	Dose	Method
Daphnia magna (Water flea)	48h	EC50: 860 mg/l	OECD 202
Pimephales promelas (fathead minnow)	96h	LC50: > 92 mg/l	OECD 203
green algae	72h	EC50: 61,2 mg/l (Growth rate)	OECD 201
Pseudomonas putida	17 h	EC50: > 1000 mg/l (Growth inhibition)	DIN 38412, part 8
Daphnia magna (Water flea)	48 h	EC50: 72 mg/l	OECD 203
Oryzias latipes (Medaka)	96 h	LC50: 74,8 mg/l	OECD 203

Long term toxicity

Heptanoic acid (111-14-8)

Type	Species	Dose	Method	
Reproductive toxicity	Daphnia magna (Water flea)	NOEC: 40 mg/l (21d)	OECD 211	
Aquatic toxicity	Pseudokirchneriella subcapitata	NOEC: 46 mg/l (3d) Growth rate	OECD 201	

Terrestrial toxicity

Heptanoic acid (111-14-8)

Species	Exposure time	Dose	Type	Method
Eisenia fetida	56 d	NOEC: 10 mg/kg soil dw	Reproduction	OECD 222
Eisenia fetida	28 d	NOEC: > 32 mg/kg soil dw	Mortality	OECD 222
Beta vulgaris (Sugar beet)	21 d	NOEC: 7,6 mg/kg soil dw	Growth	OECD 208
Brassica rapa (Turnip)	21 d	EC10: 1,2 mg/kg soil dw	Growth	OECD 208
Lactuca sativa (Lettuce)	21 d	EC10: 27,7 mg/kg soil dw	Growth	OECD 208
Lolium perenne (Ryegrass)	21 d	NOEC: 7,6 mg/kg soil dw	Growth	OECD 208
Soil microorganism	28 d	NOEC: 300 mg/kg soil dw	Nitrogen transformation	OECD 216

12.2. Persistence and degradability

Heptanoic acid, CAS: 111-14-8

Biodegradation

98,7 % (11 d), Sewage, domestic, non-adapted, aerobic, OECD 301 A / ISO 7827.

Abiotic Degradation

Heptanoic acid (111-14-8)

Type	Result	Method
Hydrolysis	not expected	
Photolysis	not expected	

12.3. Bioaccumulative potential

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Heptanoic acid (111-14-8)		
Type	Result	Method
log Pow	2,54	KOW WIN, calculated
BCF	No data available	

12.4. Mobility in soil

Heptanoic acid (111-14-8)		
Type	Result	Method
Adsorption/Desorption	log Koc: 1,2	calculated
Surface tension	no data available	
Distribution to environmental compartments	no data available	

12.5. Results of PBT and vPvB assessment

Heptanoic acid, CAS: 111-14-8

PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT), nor very persistent nor very bioaccumulating (vPvB)

12.6. Endocrine disrupting properties

The substance has not been identified as having endocrine disrupting properties in accordance with section 2.3.

12.7. Other adverse effects

Heptanoic acid, CAS: 111-14-8

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product Information

Disposal required in compliance with all waste management related state and local regulations. The choice of the appropriate method of disposal depends on the product composition by the time of disposal as well as the local statutes and possibilities for disposal.

Hazardous waste according to European Waste Catalogue (EWC)

Uncleaned empty packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

SECTION 14: Transport information

ADR/RID

14.1. UN number or ID number

UN 3265

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14.2. UN proper shipping name	Corrosive liquid, acidic, organic, n.o.s. (n-Heptanoic acid)
14.3. Transport hazard class(es)	8
14.4. Packing group	II
14.5. Environmental hazards	no
14.6. Special precautions for user	
ADR Tunnel restriction code	(E)
Classification Code	C3
Hazard Number	80

ADN

ADN: Container and Tanker

14.1. UN number or ID number	UN 3265
14.2. UN proper shipping name	Corrosive liquid, acidic, organic, n.o.s. (n-Heptanoic acid)
14.3. Transport hazard class(es)	8
14.4. Packing group	II
14.5. Environmental hazards	no
14.6. Special precautions for user	
Classification Code	C3
Hazard Number	80

ICAO-TI / IATA-DGR

14.1. UN number or ID number	UN 3265
14.2. UN proper shipping name	Corrosive liquid, acidic, organic, n.o.s. (n-Heptanoic acid)
14.3. Transport hazard class(es)	8
14.4. Packing group	II
14.5. Environmental hazards	no
14.6. Special precautions for user	no data available

IMDG

14.1. UN number or ID number	UN 3265
14.2. UN proper shipping name	Corrosive liquid, acidic, organic, n.o.s. (n-Heptanoic acid)
14.3. Transport hazard class(es)	8
14.4. Packing group	II
14.5. Environmental hazards	no
14.6. Special precautions for user	
EmS	F-A, S-B
14.7. Maritime transport in bulk according to IMO instruments	
Product name	n-Heptanoic acid
Ship type	3
Pollution category	Z
Hazard class	S/P

SECTION 15: Regulatory information

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

Regulation 1272/2008, Annex VI

Heptanoic acid, CAS: 111-14-8

Classification Skin Corr. 1B; H314
Hazard pictograms GHS05 Corrosion
Signal word Danger
Hazard statements H314

DI 2012/18/EU (Seveso III)

Category not subject

DI 1999/13/EC (VOC Guideline)

Component	Status
Heptanoic acid CAS: 111-14-8	not subject

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 No. 758

Component	Status
Heptanoic acid CAS: 111-14-8	The substance is/will be pre-registered

For details and further information please refer to the original regulation.

International Inventories

Heptanoic acid, CAS: 111-14-8

AICS (AU)
DSL (CA)
IECSC (CN)
EC-No. 2038387 (EU)
ENCS (2)-608 (JP)
ISHL (2)-608 (JP)
KECI KE-18284 (KR)
INSQ (MX)
PICCS (PH)
TSCA (US)
NZIoC (NZ)
TCSI (TW)

National regulatory information Great Britain

Releases to air (Pollution Inventory Substances)

not subject

Releases to water (Pollution Inventory Substances)

not subject

Releases to sewer (Pollution Inventory Substances)

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not subject

For details and further information please refer to the original regulation

15.2. Chemical safety assessment

The Chemical Safety Report (CSR) is not required.

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

H332: Harmful if inhaled.

H335: May cause respiratory irritation.

Abbreviations

A table of terms and abbreviations can be found under the following link:

http://echa.europa.eu/documents/10162/13632/information_requirements_r20_en.pdf

Training advice

For effective first-aid, special training / education is needed.

Sources of key data used to compile the datasheet

Information contained in this safety data sheet is based on OQ owned data and public sources deemed valid or acceptable. The absence of data elements required by OSHA, ANSI or Annex II, Regulation 1907/2006/EC indicates, that no data meeting these requirements is available.

Further information for the safety data sheet

Changes against the previous version are marked by ***. Observe national and local legal requirements. For more information, other material safety data sheets or technical data sheets please consult the OQ homepage (www.chemicals.oq.com).

The annex is not required because the substance is registered as an intermediate under REACH

Disclaimer

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End of Safety Data Sheet